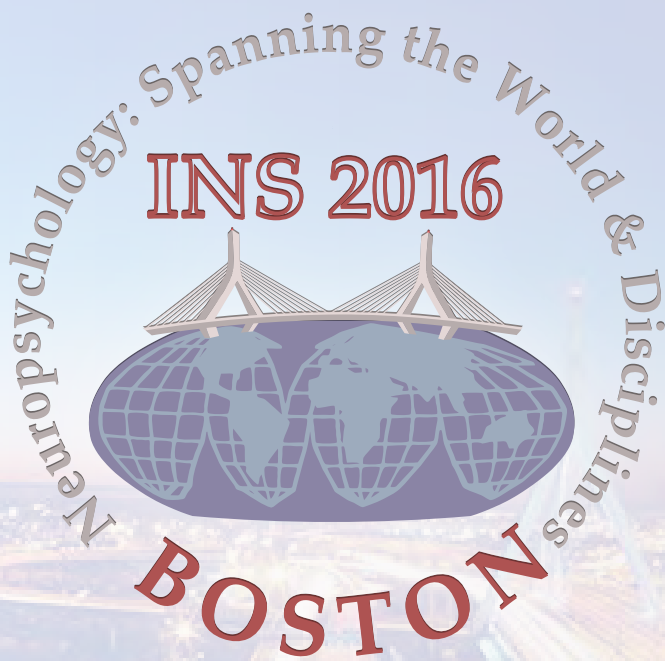


# **INS** 44th Annual Meeting **BOSTON** February 3-6, **2016**

Boston Marriott Copley Place, Boston, Massachusetts, USA



International Neuropsychological Society

[www.the-ins.org](http://www.the-ins.org)

# INS 44th Annual Meeting **BOSTON** 2016

|          | Wednesday, February 3                   | Thursday, February 4                                 | Friday, February 5                        | Saturday, February 6                                     |
|----------|---|--|---|--|
| 7:00 AM  |   |  |   |  |
| 7:30 AM  |   | CE 7-8<br>7:20-8:50                                  | CE 9-10<br>7:20-8:50                      | CE 11-12<br>7:20-8:50                                    |
| 8:00 AM  |   |  |   |  |
| 8:30 AM  |   | Poster 2<br>9:00-10:30<br>(Opens at 8:30)            | Poster 5<br>9:00-10:30<br>(Opens at 8:30) | Poster 8, Poster Symp 2<br>9:00-10:30<br>(Opens at 8:30) |
| 9:00 AM  | CE 1-3<br>9:00-12:00                    | Paper 1-2<br>9:15-10:45                              | Paper 5-6<br>9:15-10:45                   | Inv. Symp 4<br>9:00-10:30                                |
| 9:30 AM  |   | Symp 1-2<br>9:15-10:45                               | Symp 7-8<br>9:15-10:45                    | Paper 11<br>9:00-10:30                                   |
| 10:00 AM |   |  |   | Symp 12-13<br>9:00-10:30                                 |
| 10:30 AM |   |  |   | Coffee 10:30-10:45                                       |
| 11:00 AM |   | Coffee 10:45-11:00                                   | Coffee 10:45-11:00                        | Poster 9<br>10:45-12:00                                  |
| 11:30 AM |   | Plenary B:<br>Bandettini<br>11:00-12:00              | Plenary E:<br>Gelman<br>11:00-12:00       | Paper 12-13<br>10:45-12:15                               |
| 12:00 PM | SLC<br>Workshop<br>12:00-3:00           |  |   | Symp 14-15<br>10:45-12:15                                |
| 12:30 PM |   |  |   |  |
| 1:00 PM  | CE 4-6<br>1:00-4:00                     | Poster 3<br>12:45-2:15                               | Poster 6<br>12:30-2:00                    | Poster 10<br>12:45-2:00                                  |
| 1:30 PM  |   | Inv. Symp 1<br>12:45-2:15                            | Symp 9<br>12:45-2:05                      | Paper 14<br>1:00-2:30                                    |
| 2:00 PM  |   | Symp 3-4<br>12:45-2:15                               | Paper 7<br>12:45-2:15                     | Symp 16-17<br>1:00-2:30                                  |
| 2:30 PM  |   | Paper 3<br>1:00-2:20                                 | Inv. Symp 3<br>12:45-2:15                 |  |
| 3:00 PM  |   |  | Symp 10<br>1:00-2:20                      |  |
| 3:30 PM  | Poster 1,<br>Poster Symp 1<br>3:00-4:15 | Plenary C:<br>Pascual-Leone<br>2:30-3:30             | SLC<br>Panel<br>1:00-2:20                 |  |
| 4:00 PM  |   | Poster 4<br>3:30-5:00                                | Poster 7<br>2:15-3:45                     |  |
| 4:30 PM  | Welcome 4:15-4:30                       | Coffee 3:00-3:45                                     | Symp 11<br>2:15-3:30                      |  |
| 5:00 PM  | Plenary A:<br>Dickerson<br>4:30-5:30    | Mid-Career<br>3:45-4:45                              | Early Career<br>2:30-3:30                 |  |
| 5:30 PM  | Awards Ceremony<br>5:30-6:30            | Symp 5<br>3:45-5:00                                  | Paper 8-10<br>2:30-3:30                   |  |
| 6:00 PM  | Welcome Reception<br>6:30-7:30          | Inv. Symp 2<br>3:45-5:05                             | Plenary F:<br>Diamond<br>3:45-4:45        |  |
| 6:30 PM  |   | Paper 4<br>3:45-5:05                                 | Plenary G:<br>Watts<br>5:00-6:00          |  |
| 7:00 PM  |   | Symp 6<br>3:45-5:05                                  | Business Meeting<br>6:00-6:30             |  |
| 7:30 PM  |   | Plenary D (Birch Lecture):<br>Blakemore<br>5:15-6:15 | President's Reception<br>6:30-7:30        |  |
| 8:00 PM  |   | INS-SLC Student Social<br>7:00-9:00                  |   |  |

For room assignments, see the daily program overview on pages 9-11.

For Boston hotel floor plans, please turn to the back inside cover.

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It is our distinct privilege and pleasure to welcome you to Boston for the 44th Annual Meeting of the International Neuropsychological Society (INS). Boston is an intellectually vibrant community that is home to upwards of 100 world-class universities, colleges, and hospitals. Its historical and cultural roots in both the U.S. and in neuropsychology make Boston a truly unique and exciting destination.

The theme of the 2016 Annual Meeting of INS in Boston—*Neuropsychology: Spanning the World and Disciplines*—reflects an appreciation of the international and multidisciplinary contributions to neuropsychology and INS. At its best, the field of neuropsychology has been a collaborative endeavor, significantly influenced by a number of related disciplines including cognitive psychology, behavioral neurology, biophysics, computational neuroscience, and psycholinguistics. This year's program features leading plenary speakers and symposiasts, from a number of different countries and disciplines, who will cover a breadth of topics from brain-behavior relationships to multi-modal imaging approaches, and statistical modeling targeted at neuroscience research. This multidisciplinary and international approach is necessary for the most expedient advancement of understanding of brain-behavior relations in global contexts.

Much gratitude is extended to Raul Gonzalez, INS Chair of Continuing Education, for providing such a dynamic and wide range of intellectually stimulating sessions. Twice yearly, Raul works tirelessly to provide relevant and timely content sessions taught by experts in their respective fields.

We would also like to extend our sincere thanks to Gordon Chelune, INS Executive Director, and the collaborative team in the INS office—Tandy Pietro, Chantal Marcks, and Jane Laird—for their dedicated guidance and expertise in developing and constructing this program.

It is our hope that you enjoy the scientific program and your time in Boston, as well as the opportunity afforded by the Meeting to engage with new and old friends and colleagues.

Best,

Ann D. Watts and Rosemary Fama  
INS President / Boston Program Chair



**Ann D. Watts**  
INS President



**Rosemary Fama**  
Program Chair

# Boston 2016 Program Committee

## INS President

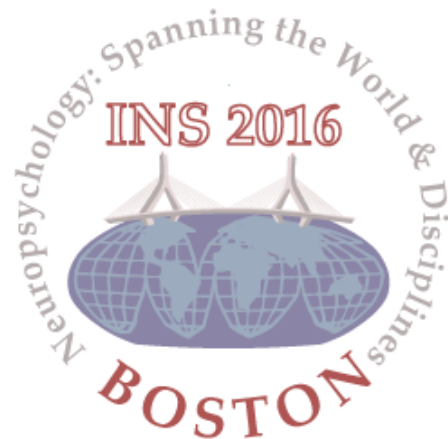
Ann D. Watts

## Program Committee Chair

Rosemary Fama

## Continuing Education Chair

Raul Gonzalez



## Program Committee Members

- |                        |                      |                      |
|------------------------|----------------------|----------------------|
| Vicki Anderson         | + Ben Hampstead      |                      |
| Rhoda Au               | Duke Han             |                      |
| + Ida Sue Baron        | Victor Henderson     |                      |
| + Michael Basso        | Erik Hessen          |                      |
| Russel Bauer           | Stephen Hooper       |                      |
| Miriam Beauchamp       | Joanna Jacobus       |                      |
| Thomas Bergquist       | Angela Jefferson     |                      |
| Jane Holmes Bernstein  | Roy Kessels          |                      |
| Mary Best              | Ronald Killiany      |                      |
| Cinnamon Bloss         | Michael Kirkwood     |                      |
| Raymond CK Chan        | Natalia Kleinhans    |                      |
| + Derin Cobia          | Elizabeth Kozora     |                      |
| Erwin Concepcion       | +‡ Maxine Krengel    | +‡ Margaret O'Connor |
| Simon Crowe            | Kevin Krull          | Ozioma Okonkwo       |
| Amy Davis              | Melissa Lamar        | Katherine Possin     |
| Erica Dawson           | Jennifer Larson      | Katherine Rankin     |
| Nyaz Didehbani         | Bonnie Levin         | Jill Razani          |
| Peter Donovan          | Maya Libben          | Dorene Rentz         |
| Jonathan Evans         | Kevin Manning        | Celiane Rey-Casserly |
| + Deborah Fein         | C. Charles Mate-Kole | Diana Robins         |
| Alberto Luis Fernandez | Craig McFarland      | Lauren Schwarz       |
| Thomas Flynn           | + Harry Miller       | Brenda Spiegler      |
| Marsha Gragert         | Robin Morris         | Kimberly Sullivan    |
| Stuart Hall            | Bonnie Nagel         | + Edith V. Sullivan  |
|                        |                      | Angela Troyer        |
|                        |                      | Federick Unverzagt   |
|                        |                      | Eli Vakil            |
|                        |                      | Mieke Verfaellie     |
|                        |                      | Guy Vingerhoets      |
|                        |                      | Seth Warschausky     |
|                        |                      | Roberta White        |
|                        |                      | Molly Zimmerman      |

+ Program Executive Committee Member

‡ Local Arrangements Committee Co-Chair

# Welcome to INS Boston 2016!

*Please visit the INS Registration Desk upon your arrival for your badge and registration materials. Please note that entry into sessions and events is only allowed to those wearing an INS badge.*

## INS Registration Desk

The INS Registration Desk is located on Level Four, in the hotel's central Atrium area. Please visit us during our open hours listed below:

### Registration Desk Hours:

|                       |                 |
|-----------------------|-----------------|
| Tuesday, February 2   | 4:00 PM–7:00 PM |
| Wednesday, February 3 | 8:00 AM–6:00 PM |
| Thursday, February 4  | 7:00 AM–5:30 PM |
| Friday, February 5    | 7:00 AM–5:30 PM |
| Saturday, February 6  | 7:00 AM–2:00 PM |



*Photo courtesy Boston Marriott*

### **Boston Marriott Copley Place**

10 Huntington Avenue  
Boston, Massachusetts 02116 USA

Phone: (+1) 617-236-5800  
Fax: 617-236-5885

[www.marriott.com/hotels/travel/  
bosco-boston-marriott-copley-place/](http://www.marriott.com/hotels/travel/bosco-boston-marriott-copley-place/)

## Official Venue & Headquarter Hotel

The official meeting venue and headquarter hotel of the INS 44th Annual Meeting is the **Boston Marriott Copley Place**. Almost all events occur on-site, making the headquarter hotel the preferred choice for most attendees.

The hotel is ideally located in the heart of Boston's famed **Copley Square**, in its stylish **Back Bay** neighborhood—minutes away from the **Boston Common**, the **Shops at Prudential Center**, and **Newbury Street** shopping.

The rest of Boston is immediately accessible via immediately adjacent MBTA subway and Amtrak train stations, both located just 0.2 miles from the hotel's door. Other transportation options include taxi, car rental, private shuttle service, or personal auto (valet parking is available at the hotel).

Boston's **Logan International Airport**, the arrival point for many attendees, is just 3.2 miles from the hotel.

There is wireless internet access available in guest rooms in the INS room block for a discounted rate, or attendees may enroll in Marriott Rewards to receive FREE wireless internet in their hotel room. Join at [www.marriott.com/rewards/createAccount/createAccountPage1.mi?enrollmentSourceCode=3528](http://www.marriott.com/rewards/createAccount/createAccountPage1.mi?enrollmentSourceCode=3528).



# General Meeting Information

## Admittance & Badge

Please wear your INS name badge at all sessions and events during the Annual Meeting, including ancillary meetings. Lost badges may be replaced at the INS Desk.

## Internet Access

Wireless internet access is available to attendees in all INS meeting space, in both the meeting rooms and in the Atrium areas reserved for the INS Meeting. **The INS network name and password will be posted on-site.**

## Candidate Interviews

Rooms designated for candidate interviews are the **Hyannis, Orleans, and Yarmouth (on Level Four)**, as well as the **Simmons Room (on Level Three)**. Interview rooms will be open from 7:00 AM to 8:00 PM each day from Tuesday through Friday, and from 7:00 AM to 3:00 PM on Saturday.

**Please check the on-site message boards for posted interviewing opportunities.** Please Note: Interviews are arranged independently between interviewers and candidates. The INS does not coordinate interviews.

## Certificates of Attendance

If you require a certificate documenting your attendance, please inquire at the INS Registration Desk. You may also obtain a certificate after the meeting is over by emailing [INS@utah.edu](mailto:INS@utah.edu).

## Continuing Education

For **CE registration** requirements and information, please see the next page. For **CE course and program requirements**, including post-course evaluations and certificates, please see the CE section of this book.

## Published Meeting Proceedings

The complete scientific program and abstracts listing for the INS 44th Annual Meeting will be published in an online, supplemental issue of the *Journal of the International Neuropsychological Society: JINS*, Volume 22 (2016). All supplemental issues of JINS are freely available online, without a subscription.

Prior to their publication in JINS, the 44th Annual Meeting proceedings (including the schedule, abstracts listing, and author and keyword indices) may be viewed or downloaded in PDF format via the INS website at [www.the-ins.org/annualmeeting\\_2016](http://www.the-ins.org/annualmeeting_2016).

## INS Boston App

Don't forget to download the INS 2016 Annual Meeting app for your mobile phone, tablet, or even to use on your personal computer. Use it now, during the meeting, and refer back to it as needed in the future!



The INS meeting app lets you view the complete program schedule, including the electronic program book, invited speaker bios and abstracts, Boston travel and destination information, and much more.

To download and start personalizing the app, search for "INS 2016" at the Apple Store or Android Market, or visit [tripbuildermedia.com/apps/INS2016](http://tripbuildermedia.com/apps/INS2016).

### How to Upload Your Presentation Handout

INS will send an email to submitting abstract authors with a link to upload an optional PDF handout for their presentation.

Handout files must be PDF, PPT, XLS, DOC, TXT, PNG OR JPG and cannot exceed 1 MB. You can also upload a URL link for a handout.

### How to Upload Your Photo

Once you have downloaded the app, you can add yourself to the list of attendees by completing the "MyProfile" section (you can choose how much of your information to share).

To upload your photo to MyProfile, click on the MyProfile icon within the app and click Edit, then follow the prompts.



Photo files must be portrait orientation and no larger than 256 KB. The ideal size for photos is 85 pixels wide x 100 pixels high (otherwise skewing of the image may occur).

## What is Included in Registration?

The general meeting registration fee includes all plenary sessions, invited symposia, and all other **General Sessions**—each described below—as well as all receptions, coffee breaks, and INS events<sup>1</sup>. It also allows attendees to take advantage of INS meeting space by participating in candidate interviews, or in ancillary events<sup>1</sup> that are arranged by individuals and organizations.

The only sessions not included in the general fee are **Continuing Education (CE) Workshops**.<sup>2</sup> In order to attend CE workshops, attendees must pre-register and pay an additional course fee.

1. Some events are by-invitation only.
2. CE Credit for Plenary attendance is also not included in this fee.

### General Sessions

General sessions are the heartbeat of the Annual Meeting's scientific program, and are open to everyone who has paid the general fee. General sessions include all paper, symposia, and poster sessions—as well as plenary addresses, invited symposia, and INS-hosted events.

### PLENARY SESSIONS

ALL registered attendees are welcome and encouraged to attend plenary sessions—advance registration is NOT required.

In addition, all plenary sessions are each offered for one hour of *optional* CE credit to those who complete all CE requirements and submit the separate CE fee.

Please Note: Volunteer proctors will be posted at the entry to each Plenary Session to distribute CE attendance slips. Attendees do not need to complete and submit a CE attendance slip unless they plan to seek CE credit for their participation in the session (either now or in the future).

### SOCIAL EVENTS & EXHIBIT HALL

Your INS badge allows entry to all official social events at the Annual Meeting, including daily networking with colleagues old and new in the Gloucester Hall, where all poster sessions, coffee breaks, and Exhibitors are located, as well as during both evening receptions on Wednesday and Friday.

Please see the Sponsors & Exhibitors section for a complete listing of the 44th Annual Meeting's Official Sponsors, as well as an alphabetical listing of exhibitors in Boston.

## Attending CE Workshops?

Volunteer proctors will check attendee badges at the door to verify registration (only registered attendees will be admitted).

For CE course and program requirements, including post-course evaluations and certificates, please see the CE section of this book.

## 44th Annual Meeting Social Events

### INS Receptions

Don't miss the **INS Welcome Reception** on Wednesday, February 3rd from 6:30–7:30 PM in the Third Floor Atrium & Lounge.

On Friday, February 5th, join us for the **INS President's Reception** from 6:30–7:30 PM in the Third Floor Atrium & Lounge.

*Receptions are intended for registered INS meeting attendees only.*

### Student Social, Hosted by the INS Student Liaison Committee (SLC)

Trainees of all levels are welcome to join the INS SLC at their bi-annual **Student Social** for mingling and light refreshments. The Social will be held on Thursday, February 4th from 7:00–9:00 PM at **Lir Irish Pub & Restaurant** at 903 Boylston Street.

### Massachusetts Neuropsychological Society (MNS) Locals Lounge

The MNS will host a locals lounge in the Suffolk Room on Level Three each day of the meeting.

What do you get when you combine one neuropsychologist, a neurologist, an oncologist, two neuroscientists, and one MD/PhD student? That's **What She Said**.

Don't miss **What She Said** performing LIVE at the INS President's Reception!

**What She Said** digs deep into the vaults of classic rock, R&B, punk, and reggae to play tunes in their own original style. Featuring:

*Vocals: Allison Berger, PhD (day job, Harvard-affiliated clinical psychologist)*

*Lead Guitar & Vocals: Jon Dashkoff (day job, MD/PhD student at BU)*

*Lead Guitar & Vocals: Jeff Peppercorn, MD (day job, oncologist at Massachusetts General Hospital)*

*Keyboards: Mike Hasselmo, PhD (day job, neuroscientist at Boston University)*

*Bass Guitar: Earl Miller, PhD (day job, neuroscientist at MIT)*

*Drums: Brad Dickerson, MD (day job, neurologist at Massachusetts General Hospital)*



# Presenter Instructions

**ALL SPEAKERS (including Plenary and CE Speakers and all presenters in Paper and Symposia Sessions) are required to check-in at the Speaker Ready Room at least ONE HOUR prior to their assigned session.**

## Speaker Ready Room

The Speaker Ready Room is located in the **FALMOUTH ROOM** on Level Four.

## Speaker Ready Room Hours

|                       |                             |
|-----------------------|-----------------------------|
| Wednesday, February 3 | 8–9 AM, 12–1 PM, and 3–5 PM |
| Thursday, February 4  | 8–10 AM and 12–4 PM         |
| Friday, February 5    | 8–10 AM and 12–3:30 PM      |
| Saturday, February 6  | 8 AM–12 PM                  |

## General Guidelines

Speakers are not permitted to use their own computers or devices for their presentation. Presenters will have access to a laptop, mouse, laser pointer, and microphone in each lecture hall.

A technician will be available during open hours to upload speaker presentations to a central system. Speakers are strongly encouraged to check-in well in advance of their scheduled presentation, preferably the day before if possible. This will ease transitions between sessions where time is extremely tight.

## Paper Session Presenters

**All presenters must report to the Speaker Ready Room to upload their presentation no later than one hour prior to their scheduled session.**

Paper sessions vary in length and the number of presentations they contain. Depending on your session duration and number of authors, you will have between 10–18 minutes to present your paper, including time for introductions and transitions. A 10- to 15-minute discussion period will occur at the end of each session. **Please refer to your original presenter instructions email or consult with the moderator for the specific timing of your session.**

Each paper session has a moderator selected from the Program Committee, who will introduce each speaker, help solve any problems, and keep the session on time. Please help the moderator and be respectful of other authors by staying within your allotted time, as each session is under a strict time limitation.

## Symposia Presenters

**All symposium presenters must report to the Speaker Ready Room to upload their presentation no later than one hour prior to their scheduled session.**

Symposia sessions range in length. It is up to the Symposium Chair's discretion to divide the time amongst the individual abstracts, the discussant, and to allow time for audience discussion and questions. Please stay within the time allotted by the Symposium Chair, as each session is under strict time limits.

## Poster Presenters

All poster sessions will take place in the Gloucester Hall on Level Three. **Please arrive 10 minutes prior to the start of your session in order to mount your poster.**

PLEASE NOTE: If you are presenting in a 9:00 AM session, please report to the poster hall at 8:20 AM to mount your poster for early viewing beginning at 8:30 AM. You do not need to remain with your poster after hanging it, but you must be there for the start of the session at 9:00 AM.

Please refer to the app or the final program in Section II of this book for your final Session Order, and then kindly mount your poster on the blue poster board labeled with the same number.

A volunteer will be available to distribute INS-approved velcro fasteners 10 minutes prior to the start of each poster session. **NO other permanent fastening devices are permitted (such as tape, push pins, or staples).**

The presenting author must be present at the poster session and should remain with the poster to entertain questions for the duration of the session.

## Poster Symposia Presenters

All poster symposia will take place in the Gloucester Hall on Level Three.

Poster symposia occur during regular poster sessions, but are grouped together and positioned in such a way as to provide a cohesive presentation on their selected topic.

**Please follow the instructions above for Poster Presenters.**

# About the INS

The International Neuropsychological Society (INS) is a multidisciplinary, international organization dedicated to enhancing communication among the scientific disciplines that contribute to the understanding of brain-behavior relationships and to promoting the international and interdisciplinary study of these relationships throughout the lifespan. The Society's emphasis is on science, education, and the applications of scientific knowledge.

Founded in 1967, INS now has more than 4800 members representing more than 60 different countries worldwide.

INS members include cognitive and clinical neuropsychologists and psychologists, neurologists, psychiatrists, speech-language pathologists, and specialists of related disciplines. They include esteemed scientists and clinicians from the world's most prestigious universities and institutions, private practitioners, and trainees just embarking on their careers.

## INS ANNUAL & MID-YEAR MEETINGS

INS holds two meetings per year that provide a venue for cognitive and clinical neuroscientists from around the world to share their research and increase their understanding of the driving forces behind cognition and behavior.

The **INS Annual Meeting** is held in North America every February and the **INS Mid-Year Meeting** is held

internationally every July. Each meeting offers three to four days of scientific and continuing education programming. Both INS meetings are open to members and non-members, and to professionals and trainees of all levels. Attendees represent neuropsychology and a variety of other disciplines.

## NEW MEMBERS WELCOME!

INS welcomes new members! Prospective members may learn more about the Society and complete an online membership application at [www.the-ins.org](http://www.the-ins.org).

## CONTACT THE INS AT:

The International Neuropsychological Society (INS)  
2319 South Foothill Drive, Suite 260,  
Salt Lake City, Utah 84109, USA  
Phone: 801-487-0475 | Fax: 801-487-6270  
Email: [INS@utah.edu](mailto:INS@utah.edu) | [www.the-ins.org](http://www.the-ins.org)

## Future INS Meetings

|                       |                |                             |
|-----------------------|----------------|-----------------------------|
| 2016 Mid-Year Meeting | 5-8 July 2016  | London, England, UK         |
| 45th Annual Meeting   | 1-4 Feb 2017   | New Orleans, Louisiana, USA |
| 2017 Mid-Year Meeting | 5-8 July 2017  | Cape Town, South Africa     |
| 46th Annual Meeting   | 14-17 Feb 2018 | Washington, D.C., USA       |



Volume 1 March 2013 Number 1

**Journal of  
PEDIATRIC  
NEUROPSYCHOLOGY**

Official Journal of the  
American Academy of  
Pediatric Neuropsychology

Springer

Springer is proud to launch **Journal of Pediatric Neuropsychology** on behalf of the American Academy of Pediatric Neuropsychology (Ed. Andrew Davis, Ball State University). Submit your basic and clinical research at <http://www.springer.com/psychology/neuropsychology/journal/40817/PS2>

**New and forthcoming:**

- Handbook of Long Term Care of the Childhood Cancer Survivor** (Ed. GA Mucci, LR Torno)
- Neuropsychological Formulation: A Clinical Casebook** (Ed. JAB Macniven)
- The Neuropsychology of Men** (Ed. CM Zaroff, RC D'Amato)
- The Neurobiological Basis of Memory: A System, Attribute, and Process Analysis** (Ed. PA Jackson et al)
- Adding Neurotherapy to Your Practice: Clinician's Guide to the ClinicalQ, Neurofeedback, and Braindriving** (P. Swingle)



# Daily Program Overview

## WEDNESDAY, FEBRUARY 3, 2016

### 9:00 AM – 12:00 PM

**CE 1. Functional MRI: The History, Basics, Cutting Edge, and Future**

*Presenter: Peter A. Bandettini  
Location: Salon F*

**CE 2. Science and Practice Considerations for Bilingual Neuropsychology: A Focus on the Hispanic/Latino Community**

*Presenters: Melissa Lamar, Maria T. Schultheis  
Location: Salon G*

**CE 3. Advancing Developmental Science Through the Application of Pediatric Neuropsychology in Africa**

*Presenters: Michael J. Boivin, Bruno Giordani  
Location: Back Bay (Dartmouth-Fairfield)*

### 12:00 PM – 3:00 PM

**INS Student Liaison Committee Workshop  
Event: Social Competence in Pediatric Neurological Disease & Injury**

*Presenters: Keith O. Yeates, Miriam Beauchamp  
Location: Salon HIJK*

### 1:00 PM – 4:00 PM

**CE 4. Characterizing and Guiding Brain Plasticity Across the Lifespan**

*Presenter: Alvaro Pascual-Leone  
Location: Salon F*

**CE 5. Cognitive Aging in the Digital Era: Role of Global Partnerships**

*Presenter: Rhoda Au  
Location: Salon G*

**CE 6. Dynamic Considerations in Neuropsychological Assessment of Depressive Disorders: State, Trait, Scar and Burden**

*Presenter: Scott Langenecker  
Location: Back Bay (Dartmouth-Fairfield)*

### 3:00 PM – 4:15 PM

**Poster Session 1. Behavioral Neurology, Electrophysiology/EEG, Epilepsy, and Memory**

*Location: Gloucester Hall*

**Poster Symposium 1. Predicting Postsurgical Outcome Using Neuroimaging Markers in Temporal Lobe Epilepsy**

*Organizer: Karol Osipowicz  
Location: Gloucester Hall*

### 4:15 PM – 4:30 PM

**Program Welcome**

*Program Committee Chair: Rosemary Fama  
Location: Salon ABCDE*

### 4:30 PM – 5:30 PM

**Plenary A. The Human Brain Connectome and Cognitive and Affective Function: Normal Individual Variability, Aging, and Neurodegeneration**

*Presenter: Brad Dickerson  
Introduction: Rosemary Fama  
Location: Salon ABCDE*

### 5:30 PM – 6:30 PM

**Awards Ceremony**

*Awards Committee Chair: Robert K. Heaton  
Location: Salon ABCDE*

### 6:30 PM – 7:30 PM

**Welcome Reception**

*Location: Third Floor Atrium & Lounge*

## THURSDAY, FEBRUARY 4, 2016

### 7:20 AM – 8:50 AM

**CE 7. Chemical Exposures and the Nervous System: Clinical Findings and Research Evidence**

*Presenter: Roberta White  
Location: Salon F*

**CE 8. Mild Cognitive Impairment and Preclinical Alzheimer's Disease: Concepts in Need of Input from Neuropsychology**

*Presenter: Mark Bondi  
Location: Salon G*

### 9:00 AM – 10:30 AM (Posters available at 8:30 AM)

**Poster Session 2. ABI (Child), ADHD/Attention, Autism, and Learning Disabilities/Academic Skills**

*Location: Gloucester Hall*

### 9:15 AM – 10:45 AM

**Paper Session 1. Acquired Brain Injury (ABI), Adult**

*Presenters: Ethan Johnson, Brian Biekman, Denise Krch, Alexandra Clark, Joshua Sandry, Benjamin Hill  
Moderator: Eli Vakil  
Location: Salon F*

**Paper Session 2. Medical/Neurological Disorders, Adult**

*Presenters: Katherine Possin, Michael Kopelman, Mitzi Gonzales, Roy Kessels, Sarah Villard, Theone Paterson, Keenan Walker  
Moderator: Margaret O'Connor  
Location: Salon G*

**Symposium 1. Malformations of Cortical Development and Cognition**

*Presenters: Karen Blackmon—Chair, Albert Galaburda, Rod Scott, Brandon Korman, Bernard Chang  
Location: Salon ABCDE*

**Symposium 2. Neuropsychology and Neuroimaging in Alcohol Use Disorders: a Better Understanding for a Better Treatment**

*Presenters: Anne Lise Pitel—Chair, Pierre Maurage, Hélène Beaunieux, Edith Sullivan, Marsha Bates  
Location: Back Bay (Dartmouth-Fairfield)*

### 10:45 AM – 11:00 AM

**AM Coffee Break**

*Location: Gloucester Hall*

### 11:00 AM – 12:00 PM

**Plenary B. There's More There: Extracting New Information From the Functional MRI Signal Using Novel Acquisition and Processing Methods**

*Presenter: Peter A. Bandettini  
Introduction: Rosemary Fama  
Location: Salon ABCDE*

### 12:45 PM – 2:15 PM

**Invited Symposium 1. The Contributions of Neuroimaging to Understanding Autism**

*Presenters: Deborah Fein—Chair & Discussant, Inge-Marie Eigsti, Vinod Menon, Robert Schultz, Adriana Dimartino  
Introduction: Diana Robins  
Location: Salon ABCDE*

**Poster Session 3. Assessment (Adult) and Cognitive Neuroscience**

*Location: Gloucester Hall*

**Symposium 3. Neuropsychology's Role in Preventing, Understanding, and Treating Alcohol and Marijuana Use in Adolescents and Young Adults**

*Presenters: Lindsay Squeglia—Chair, L. Bidwell, Joanna Jacobus, Joseph Schacht, Staci Gruber (Discussant)  
Location: Salon F*

**Symposium 4. Chaotic Order, Language Connectivity, and a Generalizing Treatment of Aphasia**

*Presenters: Stephen Nadeau—Chair, Diane Kendall, Anastasia Bohsali  
Location: Back Bay (Dartmouth-Fairfield)*



## 1:00 PM – 2:20 PM

### Paper Session 3. Aging

*Presenters: Emily Shaw, Kevin Manning, Laiss Bertola, Laura Zahodne*  
*Moderator: Ben Hampstead*  
*Location: Salon G*

## 2:30 PM – 3:30 PM

### Plenary C. Modulating Brain Networks to Promote Recovery from Brain Injury

*Presenter: Alvaro Pascual-Leone*  
*Introduction: Margaret O'Connor*  
*Location: Salon ABCDE*

## 3:30 PM – 3:45 PM

### PM Coffee Break, Sponsored by the Kessler Foundation

*Location: Gloucester Hall*

## 3:30 PM – 5:00 PM

### Poster Session 4. Assessment (Child), EF/Frontal, and Medical/Neurological Disorders (Child)

*Location: Gloucester Hall*

## 3:45 PM – 4:45 PM

### INS Arthur Benton (Mid-Career) Award Presentation: The Evolving Role of Neuropsychological Investigations in Multiple Sclerosis

*Presenter: Ralph Benedict*  
*Introduction: David Schretlen*  
*Location: Salon HIJK*

## 3:45 PM – 5:05 PM

### Invited Symposium 2. Sleep and Cognition

*Presenters: Ian Colrain–Chair, Mark Aloia, Donald Bliwise*  
*Introduction: Vicki Anderson*  
*Location: Salon G*

### Paper Session 4. HIV/AIDS

*Presenters: Kathryn Devlin, Laurie Baker, Kaitlin Casaletto, J. Anitha Menon*  
*Moderator: Mike Basso*  
*Location: Salon F*

### Symposium 5. Genes, Neuropsychology, and Child Psychopathology (\*Ends at 5:00 PM)

*Presenters: Alysa Doyle–Chair, Erik Willcutt, Christie Burton, Nicoletta Adamo, Larry Seidman (Discussant)*  
*Location: Salon ABCDE*

### Symposium 6. Elucidating Depressive Symptom, Cognitive, and Affective Dimensions through Integrated Neuropsychological and Cognitive Neurosciences

*Presenters: Shawn McClintock–Chair, Vonetta Dotson, Scott Langenecker, Michael Treadway*  
*Location: Back Bay (Dartmouth-Fairfield)*

## 5:15 PM – 6:15 PM

### Plenary D (The INS Herbert Birch Memorial Lecture). Adolescence as a Sensitive Period of Social Brain Development

*Presenter: Sarah-Jayne Blakemore*  
*Introduction: Ann D. Watts*  
*Location: Salon ABCDE*

## 7:00 PM – 9:00 PM

### Student Social, Hosted by the INS Student Liaison Committee

*Location: Lir Irish Pub & Restaurant (903 Boylston Street)*

## FRIDAY, FEBRUARY 5, 2016

## 7:20 AM – 8:50 AM

### CE 9. Cognitive and Behavioral Aspects of Frontotemporal Degeneration

*Presenter: Katya Rascovsky*  
*Location: Salon F*

### CE 10. Mild Traumatic Brain Injury and the Postconcussion Syndrome: How Does the Science Translate to Clinical Practice?

*Presenters: Michael McCrea, Grant L. Iverson*  
*Location: Salon G*

## 9:00 AM – 10:30 AM (Posters available at 8:30 AM)

### Poster Session 5. Cancer, Cross Cultural, Forensic, Malingering/ Effort Testing, and MS/ALS

*Location: Gloucester Hall*

## 9:15 AM – 10:45 AM

### Paper Session 5. Dementia 1

*Presenters: Annie Racine, Kathryn Papp, Caitlin Watson, Timothy Hohman, Belinda Yew, Stephanie Schultz, Elizabeth Boots*  
*Moderator: Dorene Rentz*  
*Location: Salon F*

### Paper Session 6. Medical/Neurological Disorders, Child

*Presenters: Jamie Piercy, Johanna Calderon, Shannon Scratch, Rachel Wasserman, Michelle Fox, Christine Mrakotsky, Christy Casnar*  
*Moderator: Celiane Rey-Casserly*  
*Location: Salon G*

### Symposium 7. Advances in Understanding the Organization and Cognitive/Behavioral Functions of the Cerebellum

*Presenters: Carol Armstrong–Chair, Catherine Limperopoulos, Karin Walsh, Daniel Smith, Mark Mahone (Discussant)*  
*Location: Salon ABCDE*

### Symposium 8. Deployment Trauma: Insights from the TRACTS Cohort on the Clinical, Cognitive, and Neuroradiological Effects of Mild TBI and its Comorbidities in OEF/OIF/OND Veterans

*Presenters: Catherine Fortier–Chair, Alexandra Kenna, Melissa Amick, Victoria Poole, Benjamin Trotter, Grant L. Iverson (Discussant)*  
*Location: Back Bay (Dartmouth-Fairfield)*

## 10:45 AM – 11:00 AM

### AM Coffee Break

*Location: Gloucester Hall*

## 11:00 AM – 12:00 PM

### Plenary E. The Statistical Crisis in Science

*Presenter: Andrew Gelman*  
*Introduction: Harry Miller*  
*Location: Salon ABCDE*

## 12:30 PM – 2:00 PM

### Poster Session 6. Aging, MCI, and Visuospacial/Neglect

*Location: Gloucester Hall*

## 12:45 PM – 2:15 PM

### Invited Symposium 3. Genes, Environments and Their Interplay in Cognitive Aging and Dementia

*Presenters: Nancy Pedersen–Chair, William Kremen, Matt McGue, Margaret Gatz, Sudha Seshadri (Discussant)*  
*Introduction: Edith Sullivan*  
*Location: Salon F*

### Paper Session 7. Imaging and Neuropsychology

*Presenters: Tawny Meredith-Duliba, Erin Bigler, Alissa Butts, Arnab Roy, Robert Bilder, Lisanne Jenkins, Alyssa Ailion*  
*Moderator: Derin J. Cobia*  
*Location: Salon G*

### Symposium 9. Social Cognition and Function After Child TBI: Relation to Imaging (\*Ends at 2:05 PM)

*Presenters: Harvey Levin–Chair, Nicholas Ryan, Miriam Beauchamp, Talin Babikian, Brian Biekman*  
*Location: Salon ABCDE*

## 1:00 PM – 2:20 PM

### SLC Panel Discussion Event, Presented by the INS Student Liaison Committee: The Internship & Post-Doctoral Match: An Insider's Guide for Trainee Success

*Presenters: Jeff Baker, Amy Heffelfinger, Kelly Jones, Kristina Patrick*  
*Location: Back Bay (Dartmouth-Fairfield)*

### Symposium 10. Risk and Protective Factors for Outcomes in MS and Sports-Related mTBI

*Presenters: Peter Arnett–Chair, Victoria Merritt, Dede Ukueberuwa, Jessica Meyer, Margaret Cadden*  
*Location: Salon HIJK*

## 2:15 PM – 3:30 PM

### Symposium 11. Neurotoxicants and the Etiology of Neurodevelopmental Disorders: A Multidisciplinary Approach.

*Presenters: Amy Margolis–Chair, Julie Herbstman, Virginia Rauh, Larry Seidman (Discussant)*  
*Location: Salon ABCDE*

## 2:15 PM – 3:45 PM

Poster Session 7. Imaging (Functional & Structural) and Medical/Neurological Disorders (Adult)  
*Location: Gloucester Hall*

## 2:30 PM – 3:30 PM

INS Early Career Award Presentation: Non-Pharmacologic Treatment of Memory Deficits in Mild Cognitive Impairment

*Award Recipient: Ben Hampstead  
Location: Salon HIJK*

Paper Session 8. Executive Functions/Frontal 1

*Presenters: Brianne Bettcher, Mario Dulay, Ashley Miller, Jennifer Donelan  
Moderator: Kate Possin  
Location: Salon F*

Paper Session 9. Mild Cognitive Impairment (MCI)

*Presenters: Katherine Bangen, Corinne Pettigrew, David Libon, Brianne Bettcher  
Moderator: Jill Razani  
Location: Salon G*

Paper Session 10. Cancer

*Presenters: Yin Ting Cheung, Heather Conklin, Stefanie Vuotto, Adrienne Studaway  
Moderator: Kevin Krull  
Location: Back Bay (Dartmouth-Fairfield)*

## 3:30 PM – 3:45 PM

PM Coffee Break, Sponsored by Beyond Book Smart

*Location: Gloucester Hall*

## 3:45 PM – 4:45 PM

Plenary F. The Development of Executive Functions: Principles and Strategies for Aiding That and Differences by Genotype and Gender

*Presenter: Adele Diamond  
Introduction: Deborah Fein  
Location: Salon ABCDE*

## 5:00 PM – 6:00 PM

Plenary G (The INS Presidential Address). Developing Neuropsychology in Developing Countries: An African Perspective

*Presenter: Ann D. Watts, INS President  
Introduction: Kathy Y. Haaland, INS Incoming President  
Location: Salon ABCDE*

## 6:00 PM – 6:30 PM

Business Meeting

*Location: Salon ABCDE*

## 6:30 PM – 7:30 PM

President's Reception

*Location: Third Floor Atrium & Lounge*

# SATURDAY, FEBRUARY 6, 2016

## 7:20 AM – 8:50 AM

CE 11. War and the Brain: Neuropsychological Alterations Among Returning Veterans

*Presenter: Jennifer J. Vasterling  
Location: Salon F*

CE 12. Introduction to Ethics in the Mind- and Neuro-Sciences (Neuroethics)

*Presenter: Eric Racine  
Location: Salon G*

## 9:00 AM – 10:30 AM

(Posters available at 8:30 AM)

Poster Session 8. Cognitive Intervention/ Rehabilitation, Dementia, and Drugs

*Location: Gloucester Hall*

Poster Symposium 2. Neuropsychological Assessment & Rehabilitation From Literates to Illiterates: An Indian Perspective

*Organizer: Ashima Nehra  
Location: Gloucester Hall*

Invited Symposium 4. Cognitive Rehabilitation and Neuroimaging in Clinical Populations

*Presenters: John DeLuca-Chair, Nancy D. Chiaravalloti, Natalia Ojeda, Matcheri S Keshavan, Erin Bigler (Discussant)  
Introduction: Mike Basso  
Location: Salon ABCDE*

Paper Session 11. Pediatric Neuropsychology

*Presenters: Carolyn Denton, J. Cobb Scott, Raul Gonzalez, Veronica Hinton, Kathryn Mangin, Lara-Jeane Costa, Eva Troyb  
Moderator: Mary Best  
Location: Salon G*

Symposium 12. Health Factors Related to Cognitive and Neural Plasticity

*Presenters: Elizabeth Leritz-Chair, Andreeana Haley, Scott Hayes, Michelle Voss, David Salat, William Milberg (Discussant)  
Location: Salon F*

Symposium 13. Risk Factors in the Development of Executive Functioning in Children

*Presenters: Rachel Weber-Chair, Susanne Duvall, Theresa Lafavor  
Location: Back Bay (Dartmouth-Fairfield)*

## 10:30 AM – 10:45 AM

AM Coffee Break

*Location: Gloucester Hall*

## 10:45 AM - 12:00 PM

Poster Session 9. Emotional Processes, Genetics, HIV/AIDS, and Psychopathology/Neuropsychiatry

*Location: Gloucester Hall*

## 10:45 AM – 12:15 PM

Paper Session 12. Executive Functions/Frontal 2

*Presenters: Paul Cirino, Kelly Jones, Peter Isquith  
Moderator: Stuart Hall  
Location: Salon ABCDE*

Paper Session 13. Acquired Brain Injury (ABI), Child

*Presenters: Jessica Faber, Elisabeth Wilde, Ilirjana Hyseni, Ashley Ware, Soheil Afshar, Chelsea Morse, Sharon Nichols  
Moderator: To Be Announced  
Location: Salon G*

Symposium 14. Driving is More Than Cognition: Integrating Evidence Across Neuropsychological Populations

*Presenters: Maria Schultheis-Chair, Kristina Patrick, Anna Graefe, Ann-Marie Raphael, Elizabeth Whipple  
Location: Salon F*

Symposium 15. Resilience to Brain Aging and Alzheimer's Disease: Evidence From Imaging and Biomarker Studies

*Presenters: Ozioma Okonkwo-Chair, Prashanthi Vemuri, Anja Soldan, Dorene Rentz, Stephanie Schultz, Sylvie Belleville  
Location: Back Bay (Dartmouth-Fairfield)*

## 12:45 PM – 2:00 PM

Poster Session 10. ABI (Adult) and Language/Speech

*Location: Gloucester Hall*

## 1:00 PM – 2:30 PM

Paper Session 14. Dementia 2

*Presenters: Anna Blanken, Jason Hassenstab, Mehul Trivedi, Alexandra Minor, Neelesh Nadkarni, Benjamin Coleman, Angela Jefferson  
Moderator: Maxine Krengel  
Location: Salon G*

Symposium 16. Disentangling Autism Symptomology Across Pathologies: Investigations of Shared Phenotypic Traits

*Presenters: Brian Willoughby-Chair, Drew Coman, Jill Pineda, Kimberly Dooley  
Location: Salon ABCDE*

Symposium 17. Predictors and Outcomes of Pediatric Concussion: Insights from the Prospective, Multicenter 5P Project

*Presenters: Miriam Beauchamp-Chair, Brian Brooks, Michelle Keightley, Keith Yeates  
Location: Salon F*

# 44th Annual Meeting Sponsors

*The International Neuropsychological Society wishes to thank its generous sponsors for their support of the INS 44th Annual Meeting.*

*Through their sponsorship, these organizations make a valuable contribution to the success of the INS Annual Meeting and towards achieving INS goals of further enhancing global-scale communication and collaboration between disciplines.*

*This year's Supporting Sponsors are helping to provide the afternoon coffee breaks on Thursday and Friday. Please join us in the Gloucester Hall from 3:30 to 3:45 PM on Thursday and Friday and enjoy a hot beverage courtesy of our gracious sponsors!*

## Supporting Sponsors



Representatives of Beyond BookSmart look forward to meeting INS attendees at the **Friday Afternoon Coffee Break**, or at their Exhibit Booth in the Gloucester Hall (Booth #1).

**3:30-3:45 PM**  
**Friday PM Coffee Break**  
**Sponsored by Beyond BookSmart**  
**Gloucester Hall**

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Kessler Foundation is the proud sponsor of the **Thursday Afternoon Coffee Break**. Please visit the Kessler Foundation online to learn more about their charitable mission.

**3:30-3:45 PM**  
**Thursday PM Coffee Break**  
**Sponsored by Kessler Foundation**  
**Gloucester Hall**

**Kessler Foundation**  
[KesslerFoundation.org](http://KesslerFoundation.org)



## Exhibit Hall & Exhibitors

# Gloucester Exhibit Hall

All Annual Meeting attendees are invited to stroll through the INS Exhibit Hall, located in the Gloucester Hall on Level Three, during open hours posted below. Take advantage of discount prices on many journals, books, testing materials, and more, offered especially by our exhibitors for registered INS meeting attendees.

## Exhibit Hall Hours:

|                       |                 |
|-----------------------|-----------------|
| Wednesday, February 3 | 3:00 PM–6:00 PM |
| Thursday, February 4  | 8:15 AM–6:00 PM |
| Friday, February 5    | 8:15 AM–6:00 PM |
| Saturday, February 6  | 8:15 AM–2:00 PM |

## 44th Annual Meeting Exhibitors

**American Psychological Association**  
www.apa.org

**Anderson Center for Autism**  
www.AndersonCenterforAutism.org

**Association of Postdoctoral Programs in  
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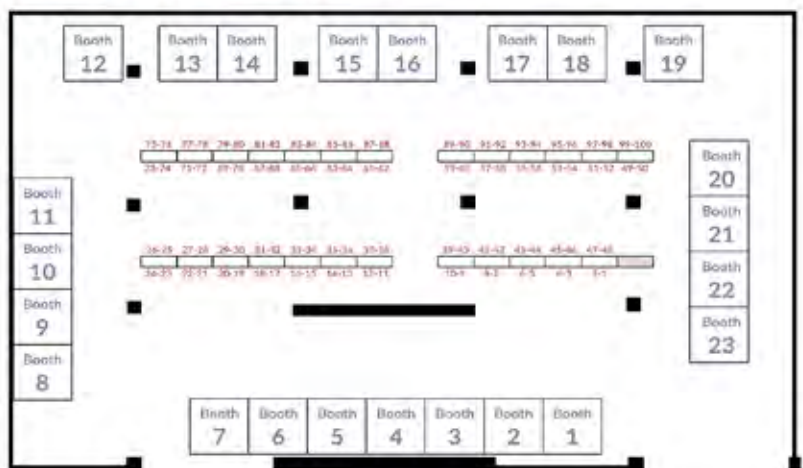
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# INS Awards Program

*The International Neuropsychological Society's Awards Program is intended to recognize the many achievements of accomplished INS members.*

## Awards Ceremony

Please join us in support of your deserving colleagues at the INS Awards Ceremony on Wednesday, February 3rd at 5:30 PM in Salon ABCDE, where we will honor the recipients of this year's awards.

## About the INS Awards Program

### Major INS Awards

Major INS Awards are given in recognition of scientific achievement in Early Career, Mid-Career (the Arthur Benton Award), or for a Lifetime of Achievement in research, education or service in the field of neuropsychology. The INS Distinguished Career Award may be given to recognize those individuals who have enjoyed extended careers and who have made major, sustained contributions to the field of neuropsychology and the Society. The Paul Satz-INS Career Mentoring Award, given in honor of Dr. Paul Satz and sponsored by PAR, Inc., is given to recognize mentoring and teaching activities that have profoundly impacted the careers of students in the field of neuropsychology.

### INS Program Awards

INS Program Awards are selected by the Program Committee for each INS Meeting in recognition of the Meeting's most outstanding scientific contributions. For the Annual Meeting, program awards include the Nelson Butters Award for the most outstanding submission by a postdoctoral fellow, the Phillip M. Rennick Award for most outstanding submission by a graduate student, and the Laird S. Cermak Award for the best submission in the field of memory or memory disorders. In conjunction with the INS Program and Awards Committees, the INS Student Liaison Committee recognizes an additional five students for their meritorious abstract submissions at each INS meeting through the selection of the SLC Student Research Awards.

## Nominations & Eligibility for the INS Awards Program

To inquire about award nominations, please visit [the-ins.org/ins-awards](http://the-ins.org/ins-awards), or email [INS@utah.edu](mailto:INS@utah.edu).

### NOMINATIONS FOR MAJOR INS AWARDS

The INS Awards Committee accepts nominations annually from INS members for major INS Awards, including Career or Lifetime Awards, and the Paul Satz-INS Career Mentoring Award. Nominations are welcome at any time, but must be submitted by certain dates in order to be considered for an award at specific upcoming meetings.

Winners are selected by the Awards Committee, according to posted criteria, with approval from the INS Governing Board.

### ELIGIBILITY FOR INS PROGRAM AWARDS

All abstracts that are submitted to the Annual and Mid-Year Meetings are screened and considered for eligible Program Awards.

## INS Awards Committee

The INS Awards Committee was created to recommend current and past members to the Board of Governors for the purpose of recognition of outstanding achievement in areas related to Neuropsychology.

Robert K. Heaton, a past president of INS (2003-2006), has served as the Chair of the INS Awards Committee since 2008.

## Previous INS Award Winners

Please visit the INS website for complete descriptions of each INS award and to view previous award winners:

[www.the-ins.org/ins-awards](http://www.the-ins.org/ins-awards)

# Paul Satz-INS Career Mentoring Award

Sponsored by Psychological Assessment Resources, Inc.



Dr. Igor Grant is Distinguished Professor and Chair of Psychiatry and director of the HIV Neurobehavioral Research Program at the University of California San Diego. Dr. Grant is a neuropsychiatrist who graduated from the University of British Columbia School of Medicine (1966), and received specialty training in psychiatry at the University of Pennsylvania (1967-1971), and additional training in neurology at the Institute of Neurology (Queen Square) (1980-1981), London, U.K. Dr. Grant's academic interests focus on the effects of various diseases on brain and behavior, with an emphasis on translational studies in HIV, and drugs of abuse.

## The Paul Satz-INS Career Mentoring Award:

### Igor Grant, MD, FRCP(C)

He has contributed to approximately 700 scholarly publications and is principal investigator of several NIH studies, including a NIDA P50 (Translational Methamphetamine AIDS Research Center – TMARC), and is co-director of the HIV Neurobehavioral Research Center (HNRC).

In addition to his research publication, Dr. Grant has contributed to the discipline of neuropsychology by co-editing several books, including the well-received work Neuropsychological Assessment of Neuropsychiatric and Neuromedical Disorders with his colleague Ken Adams. He was the founding editor and chief editor for 10 years of the *Journal of the International Neuropsychological Society*. Dr. Grant also was co-founding editor of the journal *AIDS and Behavior*, part of whose focus is on neuropsychological and other behavioral factors in HIV/AIDS. Dr. Grant's contribution to the INS has included a long record of service such as chairing the Site Selection Committee, the Publications Committee, serving on the INS Governing Board, and as President of the INS in 2007-2008. In his role as educator, Dr. Grant has chaired Ph.D. dissertation committees of 22 students. Dr. Grant is proud that a number of his students have gone on to distinguished and productive careers in their own rights at various universities and also have become highly contributing members to the INS.

# Mid- and Early Career Awards

## The Arthur Benton Award for Mid-Career Research:

**Ralph H.B. Benedict**



**INS Arthur Benton (Mid-Career) Award Presentation: The Evolving Role of Neuropsychological Investigations in Multiple Sclerosis**

**Thursday, February 4th  
3:45 to 4:45 PM**

## The INS Award for Early Career Research:

**Benjamin M. Hampstead**



**INS Early Career Award Presentation: Non-Pharmacologic Treatment of Memory Deficits in Mild Cognitive Impairment**

**Friday, February 5th  
2:30 to 3:30 PM  
Salon HIJK**

**Salon HIJK**

### Abstract

Multiple sclerosis (MS) is a demyelinating disease of the central nervous system characterized by relapses and gradual worsening of chronic neurological disability. Charcot described cognitive and personality changes in MS patients in 1877, but it would take a century for the quality and frequency of such impairment to be elucidated by Rao and others. Cognitive impairment occurs in 50-60% of MS patients, and dementia in roughly 15%. While the demyelinating WM lesion is the pathologic hallmark of MS, neuropsychological deficits are more robustly correlated with brain atrophy. This presentation will describe MRI research showing strong correlation between neuropsychological deficits and ventricle volume, normalized gray matter (GM) volume, deep GM structures such as the thalamus, and most recently networks involving the anterior regions of the thalamus. In all cases, neuropsychological tests emphasizing visual processing speed were most sensitive, and closely tied to MRI measures. In addition to characterizing MS dementia, neuropsychological investigations are playing an ever increasing role in the clinical management of this disease. Large neuropsychological batteries were distilled to core tests useful for screening and disease monitoring. Reversible cognitive deficits were recently captured during relapses, broadening the construct of MS disease activity. Based on this and related work, the FDA and EMA now recognize cognitive dysfunction as a core feature of neurological status in MS, making it a central target of clinical trials. The presentation will also cover clinical trials where disease-modifying therapy has shown impact on cognitive status.

### Abstract

Memory deficits characterize Alzheimer's disease and its clinical precursor amnesic mild cognitive impairment (aMCI). While a growing body of research furthers our understanding of the detection, characterization, and neuroanatomy of these memory deficits, the clinical translation of these findings has lagged. So, providers continue to be faced with the critical question of "What can I do about it?" Treatment is typically limited to a handful of medications that are, at best, marginally successful. This limitation has fostered a growing interest in non-pharmacologic treatment methods for minimizing learning and memory deficits, approaches that include cognitive training and cognitive rehabilitation. These techniques hold promise but remain poorly (or mis-)understood. In this session, I will first discuss several key methodological issues that plague cognitive training (CT) and cognitive rehabilitation (CR) in aMCI. I will then use a hierarchical model to evaluate whether common techniques used in CT and CR (e.g., spaced retrieval, mnemonic strategies) are beneficial for teaching specific content versus enhancing a general cognitive process. Finally, I will discuss the use of non-invasive electrical brain stimulation as another promising treatment approach that may enhance cognition directly or indirectly via interactions with cognitive intervention. Examples from ecologically-relevant memory paradigms that we have developed will be included throughout and functional magnetic resonance imaging (fMRI) evidence of technique-dependent change will be used to discuss possible mechanisms of action. Patient-specific predictors, such as neuropsychological performances and brain volumes, will be integrated since these factors are vital for selecting techniques that are most beneficial at the individual patient level.



# Distinguished Career Awards



## Kenneth M. Adams

Kenneth M. Adams graduated with his Bachelor of Science from Wayne State University with a major in psychology and a minor in mathematics. He was drawn to the world of neuropsychology during his undergraduate career

via laboratory experiences in psychophysiology, followed by exposure to the clinical use of integration of clinical psychology and brain research in a hospital setting. Realizing the potential applications of neuropsychological concepts and techniques, he applied and was admitted to Wayne State University's clinical psychology PhD program. His research as a student, under the guidance of Melvin Schwartz, Phillip Rennick and Gerald Rosenbaum, was reflective of pioneer efforts in the field with regard to psychometric understanding of neuropsychological assessment. Ken completed his internship at the Lafayette Clinic in Detroit, and has held numerous positions since then including co-coordinator of the Neuropsychology Laboratory at Hamilton Psychiatric Hospital, Hamilton, ON; neuropsychologist, Chief Psychologist and Division Head in the Department of Psychiatry at Henry Ford Hospital in Detroit; Director of Psychology in Psychiatry at the University of Michigan Medical School; and Chief Psychologist and Associate Chief for Educational Programs in the Mental Health Service at the VA Ann Arbor Healthcare System. His academic appointments include Professor of Psychology in the University of Michigan School of Literature, Science and the Arts, and in the Department of Psychiatry at the University of Michigan Medical School, and Adjunct Professor within the Departments of Psychology at Michigan State University, Wayne State University, University of Windsor, University of Detroit and McMaster University. He received his Diplomate in both Clinical Psychology and Clinical Neuropsychology from the American Board of

Professional Psychology.

Dr. Adams' contributions to the field of neuropsychology have been numerous and significant, with regard to production and dissemination of research in neuropsychology, service to and guidance of our organizations, and promotion of excellence in clinical training. Ken was the founding co-editor of *The Clinical Neuropsychologist* and has been on the editorial boards of *Aging and Cognition*, *Archives of Clinical Neuropsychology*, *Assessment*, *Journal of Clinical and Experimental Neuropsychology*, *Journal of Consulting and Clinical Psychology*, *Professional Psychology*, *Psychological Assessment*, *Psychology and Aging*, *Neuropsychology*, *Neuropsychology Review*, and *The Clinical Neuropsychologist*, taking additional editorial peer review roles for 38 other journals. He has served on numerous Federal Research Service Study Sections, Merit Review Boards and Steering Committees and has participated in multiple national collaborative studies as site co-investigator or consultant.

Ken has served as co-editor of several seminal books in the field of clinical neuropsychology, most notably Neuropsychological Assessment of Neuropsychiatric and Neuromedical Disorders and Methods in Clinical Neuropsychology. He has authored or co-authored 27 book chapters and 157 journal articles and book reviews. His collaborations within multicenter research projects have focused on the advancement of multivariate statistical methodology with neuropsychological measurement methods and non-cerebral causes of poor neuropsychological performance, contributions that remain central to practice in our field.

Ken's service to U.S. national organizations has been laudable. Within the American Psychological Association, Ken has served as Member at large, Secretary and President of Division 40 and Chairman of the Division 40 Ethics Committee as well as serving on the Committee on Accreditation, the Commission on Accreditation Appeals Board, the Council of Representatives, and the Executive Roundtable of Practice Divisions. Within the American Board of Clinical Neuropsychology of the

American Board of Professional Psychology, Ken has served as a Board Examiner, Board Member at Large, Treasurer, and a member of the By-Laws Committee. He has also served in leadership roles for the Association of Psychology Postdoctoral and Internship Centers, Association of VA Psychologist Leaders, the Michigan Psychology Association, and United States Department of Veteran's Affairs.

Within the INS, Ken has served as a member and chair of the Scientific Program Committee and member of the Governing Board. He also served as Executive Secretary and President of INS, playing a vital role in the synthesis and trajectory of the field of neuropsychology internationally, as well as the welfare the progress of the society, at a time when the field was burgeoning rapidly.

One of Ken's greatest areas of contribution has been as developer and operator of professional training programs, including the Hamilton Psychiatric Hospital training program in Hamilton, ON, the APA-accredited clinical psychology internship program at Henry Ford Hospital; and teaming up with faculty to launch the APA-accredited University of Michigan/VA Ann Arbor Medical Center post-doctoral consortium program. He has supervised 210 interns and several dozen post-doctoral fellows, thus contributing his knowledge and expertise to those who will bring the knowledge and application of neuropsychology into the future.

Neuropsychology is a field at the nexus of medicine, psychology and neuroscience that calls for integration and application of complex ideas. Ken's contributions have demonstrated the epitome of understanding of neuropsychological constructs from a research perspective, and the ability to apply conceptualizations of these concepts to neurological, psychiatric and general medical patients. His penchant for allusion, catechesis and other esoteric figures of speech notwithstanding, Ken's written contributions, both formal and informal, and his supervisory contributions, continue to bring knowledge, perspective and humor to our field on a regular basis.

Diane Howieson is an Associate Professor Emerita of Neurology at the Oregon Health & Science University, where she was a clinician and investigator in the Layton Aging and Alzheimer's Research Center. Her principle research areas were aging and dementia. She was Head of the Neuropsychology Division at the Portland VA Medical Center for many years where she trained predoctoral and postdoctoral students. She is a co-author with Muriel Lezak, Erin Bigler, and Daniel Tranel on the fifth edition of *Neuropsychological Assessment*. She has served as Consulting Editor for *The Journal of the*

*International Neuropsychological Society* and *The Clinical Neuropsychologist* and is on the Editorial Board of *Cognitive and Behavioral Neurology*. She was Program Chair of the 1994 North American INS meeting and served on the Program Committee for the 2001 North American INS meeting. She served on the Awards Committee of the American Psychological Association Division 40 (Neuropsychology) and served as its Chair. She also served on the Examination Committee of the Association of State and Provincial Psychology Boards

## Diane Howieson

[North America]. She is a past member of the Board of Directors of the American Board of Clinical Neuropsychology and currently served on its Examination Committee for ten years.



# Distinguished Career Awards



## Linas A. Bieliauskas

Dr. Linas Bieliauskas has played an instrumental role in Clinical Neuropsychology's development and evolution as a professional discipline.

During the course of his distinguished career, Linas has worked diligently in establishing and implementing models for training and in maintaining quality and integrity in professional practice. He has personally trained and served as a role model for a generation of neuropsychologists entering the field over the past 30 years.

His contributions to the development of Clinical Neuropsychology as a clinical specialty began with service as a junior member of the Task Force on Education, Credentialing, and Accreditation in Clinical Neuropsychology, which was a joint task force involving the International Neuropsychological Society (INS) and Division 40 (Society of Clinical Neuropsychology) of the American Psychological Association (APA), which was influential to the development of our profession. Recognized for his work in this capacity, his peers elected him as President of the INS, where he served his term in 1992-93 and as President of Division 40, where he served from 1997-98.

Linas is also a founding member of the American Board of Clinical Neuropsychology (ABCN) and American Academy of Clinical Neuropsychology (AACN), where he has served a number of critical

roles on boards and task forces. He has served continuously as the

Executive Director of both the ABCN and AACN since 1995. He has received numerous other awards and recognition for his service to the profession.

Born in Munich, Germany to parents from Lithuania, Linas obtained an international perspective to his life and work from parents who immigrated to the United States after receiving professional training in Europe in psychology (father) and medicine (mother). Raised in Cincinnati, Ohio, Linas received his undergraduate degree at Xavier University before attending Ohio University for his master's and doctorate degrees in Clinical Psychology. While he had gained some exposure to basic neuroscience early in his training, Linas was influenced significantly by an introduction to the practice of clinical neuropsychology through Dr. Paul Satz during his clinical internship at University of Florida in Gainesville, FL. This was followed by a position as Hospital Psychologist at the 801st General Hospital in Chicago, IL while serving as a Captain in the U.S. Army Reserve. After that, Linas remained in Chicago for another 13 years at Rush-Presbyterian-St. Luke's Medical Center, where he served as an Associate Professor and Director of Clinical Training in Psychology & Social Sciences before relocating in 1989 to Ann Arbor, MI.

Linas is currently a Professor of Psychology in the Department of Psychiatry at the University of Michigan. He serves as the Training Director of the Neuropsychology Section and also holds a position

as a Staff Psychologist at the Ann Arbor VA Medical Center. From an academic perspective, Linas has published widely on the relationship between depression and cognitive change in progressive neurological conditions, the implications of neuropsychological test performance for prediction of disease effects and critical daily functioning in the elderly, and on relationships between psychological factors and physical illness and disease. He is the senior editor of the journal *Aging, Neuropsychology, and Cognition*, and the editor of the book series *Neuropsychology, Neurology and Cognition*. He serves in an editorial capacity for many other journals. He has also been a Principal Investigator or Co-Investigator on numerous federally funded and industry funded grants.

In terms of his service to the INS, Linas was a member of the organization's Board of Governors and has served on a number of important committees, in addition to serving as the organization's president. On a global basis, Linas has held adjunct or visiting faculty positions in the United States, Canada, Lithuania, and South Africa. He has also lectured extensively in those countries and others, including Latvia, Estonia, Denmark, Spain, Greece, and Korea.

Over the course of his career, Dr. Linas Bieliauskas has played a significant role in establishing clinical neuropsychology as a profession in North America and in extending its reach across the globe, making him a worthy recipient of this INS Distinguished Career Award.

Russell Adams is Professor of Psychiatry and Behavioral Sciences at the University of Oklahoma Health Sciences Center (OUHSC). Dr. Adams received his Bachelor's degree from Texas A & M University and his PhD in psychology from the University of Texas. He served as a Captain in the US Army Medical Service Corps from 1967 to 1969. Dr. Adams has been the Director of the Neuropsychological Assessment Laboratory and Psychology Internship Program at the OUHSC since 1978. He is board certified by the American Board of Professional Psychology in both Clinical Psychology (1976) and Clinical Neuropsychology (1985).

Dr. Adams has made significant contributions to the field of clinical neuropsychology through his teaching, scholarship, and community service. He has a deep seated respect and affinity for trainees under his supervision that is magnetic. Dr. Adams is the Director of three nationally recognized training programs in psychology and neuropsychology that include a predoctoral internship program and two postdoctoral training programs. His excellence in teaching has been recognized by peers that include receiving teaching awards in 1989 and 2003 and an endowed professorship recognizing teaching excellence in 2012. Dr. Adams takes pride that approximately 80% of neuropsychology Interns and Fellows from OUHSC have themselves become board certified in Neuropsychology and that one in nine Directors of Association

of Postdoctoral Programs in Clinical Neuropsychology Neuropsychology Postdoctoral Training Programs are an OUHSC alumni.

Dr. Adams' scholarly activity has been extensive and has impacted adult neuropsychological assessment. He and his colleagues completed some of the early work on diversity assessment, including the role of ethnicity and sex on neuropsychology test performances. He and his colleagues found using the same norms for Caucasian and African-American patients can result in misclassification, and collaborated on projects developing normative data for African-Americans. He has authored or co-authored over 125 peer-reviewed articles, 10 book chapters, and co-edited a well regarded neuropsychology text. Dr. Adams serves on the Editorial Boards of five leading neuropsychology and psychology journals and is an ad hoc reviewer to 14 journals of psychology, neuropsychology, neurology, neurosurgery and medicine.

His service and leadership to the psychology and neuropsychology community in the 1980's contributed to the development of neuropsychology as a subspecialty area of practice, and he has worked tirelessly the past 3 decades to advance professional psychology. He has been a member of INS since 1980 and served on multiple committees

## Russell L. Adams



of national organizations in psychology and neuropsychology. He served on the Board of Directors of the American Board of Clinical Neuropsychology (ABCN) and has been an Examiner for Board Certification in neuropsychology and clinical psychology. He was elected Fellow of multiple associations, including the Academy of Clinical Psychology, the National Academy of Neuropsychology, and the American Psychological Association Society of Clinical Neuropsychology. His service has advanced neuropsychology as a science and a professional discipline.

Through all of his tireless work for the neuropsychology community, he remains committed to his family and sharing time with his wife and life-long confidant, Sue. Given his accomplishments as an educator and scientist along with his extraordinary professional service, Dr. Adams has played an influential role within the field of neuropsychology and is a worthy recipient of the INS Distinguished Career Award.



# Boston Program Awards



## **Nelson Butters Award** for best submission by a postdoctoral fellow

EMILY C. EDMONDS, University of California San Diego

### **62. Empirically-Derived MCI Subtypes Show Distinct Patterns of Cortical Atrophy Not Captured By Conventional Diagnostic Criteria**

Emily C. Edmonds, Joel Eppig, Mark W. Bondi, Kelly M. Leyden, Bailey Goodwin, Lisa Delano-Wood, Carrie R. McDonald

**Objective:** Previous research has demonstrated heterogeneity in neuropsychological performance and biomarker profiles within MCI samples. We previously

identified four empirically-derived MCI subtypes within the Alzheimer's Disease Neuroimaging Initiative (ADNI) MCI cohort: amnesic MCI, dysmomic MCI, dysexecutive/mixed MCI, and a large cluster-derived normal group (34%) that was characterized by intact neuropsychological performance (despite their MCI diagnosis). The current study investigated cortical thickness profiles in these four cognitive subtypes.

**Participants and Methods:** Cortical thickness estimates for 663 ADNI participants (485 MCI and 178 normal controls) were computed for 32 regions of interest

per hemisphere. Statistical group maps compared each subtype to normal control participants.

**Results:** A unique pattern of cortical thinning was observed for each MCI subtype, which corresponded to their profile of cognitive dysfunction. Consistent with their isolated deficit in memory, the amnesic MCI group showed thinning in medial temporal lobe regions bilaterally. The dysmomic MCI group demonstrated lateral temporal lobe atrophy, with greater involvement of the left hemisphere, consistent with their naming deficit. The dysexecutive/mixed MCI group exhibited a fairly widespread pattern of atrophy; this reflects their neuropsychological profile, which was characterized by poor performance across multiple cognitive domains. No differences were found between the cluster-

derived normal subtype and the normal control group.

**Conclusions:** There is substantial variability in cortical atrophy patterns among patients with MCI that underlie their distinct cognitive profiles. This heterogeneity is not captured when patients are grouped by conventional diagnostic criteria. Findings further validate our empirically-derived MCI subtypes and offer support for the premise that the conventional diagnostic criteria for MCI are highly susceptible to false-positive diagnostic errors.

#### **Poster Session 6. Aging, MCI, and Visuospatial/Neglect**

Friday, February 5, 12:30–2:00 PM in Gloucester



## **Laird S. Cermak Award** for best submission in memory or memory disorders

BRIANNE M. BETTCHER, University of Colorado Anschutz Medical Campus

### **4. Pro- and Anti-Inflammatory SNPs Predict Memory Performance in Mild Cognitive Impairment**

Brianne M. Bettcher, Matthew Wynn, Laura Jastrzab, Sarah Wilkins, Joel H. Kramer, Giovanni Coppola

**Objective:** Accumulating evidence suggests that inflammatory processes play a role in Alzheimer's Disease (AD). Despite this established association, little is known about how inflammation-related genes relate to memory function in the earliest stages of pathogenesis. We hypothesized that pro- and anti-inflammatory single nucleotide polymorphisms (SNPs) would independently predict memory function in Mild Cognitive Impairment.

**Participants and Methods:** DNA specimens for 55 amnesic MCI's and 24 normal controls were genotyped for pro-inflammatory IL-6 (rs1800795) and anti-inflammatory IL-10 (rs1800896) promoter SNPs. Blood levels of IL-6 and IL-10

were also assayed. All participants completed measures of list learning (CVLT-II short form; 10' delay) and visual memory (Benson Figure; 15' delay), and a subset completed a novel measure of pattern separation (Stark MST; Percent Correct).

**Results:** MCI participants showed greater likelihood of homozygosity for the A allele of IL-10 SNP rs1800896, and showed lower levels of peripheral IL-10 levels than healthy controls. Controlling for demographics and diagnosis, the C/C genotype of the IL-6 SNP was associated with better verbal memory recall (accounting for overall learning;  $t=2.62$ ,  $p=.01$ ) and pattern separation ( $t=2.40$ ,  $p=.02$ ) than the G/G genotype. The A/A genotype of the IL-10 SNP was associated with worse verbal memory recall ( $t=-2.56$ ,  $p=.01$ ) and delayed visual recall ( $t=-2.76$ ,  $p=.008$ ) relative to the G/G genotype. When SNPs were entered into the

model simultaneously, both contributed significantly to verbal memory outcomes, and were more strongly related to delayed recall than peripheral cytokine levels of IL-6 and IL-10.

**Conclusions:** Results suggest a potential role for pro-(IL-6) and anti-inflammatory (IL-10) SNPs in modulating episodic memory performance in MCI. These findings add to a growing body of literature on inflammatory processes in neurodegenerative disease, and highlight the need for further assessment of immunogenetic underpinnings of AD.

#### **Paper Session 9. Mild Cognitive Impairment (MCI)**

Friday, February 5, 2:30–3:30 PM in Salon G



## **Phillip M. Rennick Award** for best submission by a graduate student

BELINDA YEW, University of Southern California

### **5. Increased Cerebrovascular Resistance is Associated with Greater Amyloid- $\beta$ Deposition and Worse Cognitive Performance in Preclinical and Clinical Alzheimer's Disease**

Belinda Yew, Daniel A. Nation

**Objective:** Elevated regional cerebrovascular resistance has been identified in Alzheimer's disease and mild cognitive impairment (MCI) relative to cognitively normal samples but how cerebrovascular stiffening relates to amyloid- $\beta$  remains to be explored.

**Participants and Methods:** Arterial spin labelling MRI was used to measure cerebral blood flow (CBF) in regions typically affected by Alzheimer's disease, for participants with Alzheimer's dementia ( $n=30$ ), MCI ( $n=125$ ), or healthy cognition ( $n=73$ ). Brachial artery blood pressure values for both steady (mean arterial pressure) and pulsatile (pulse pressure) components were then each divided by regional CBF values to index estimates of regional

cerebrovascular resistance. Regional amyloid- $\beta$  deposition was also measured using PET imaging with a florbetapir-fluorine-18 tracer. Cognitive ability was assessed globally and across domains of memory and executive function.

**Results:** General linear models indicated that CBF was lower and cerebrovascular resistance indexes higher in Alzheimer's relative to MCI and cognitively normal groups. Cerebrovascular resistance indexes were also higher in MCI compared to cognitively normal cases despite an absence of significant CBF differences. Elevated cerebrovascular resistance in the inferior temporal and parietal cortices was associated with increased global and regional amyloid- $\beta$  deposition, and worse cognitive performance. Strongest associations of cerebrovascular resistance indices with both amyloid deposition and

cognitive performance were observed in preclinical stages of disease (i.e. amyloid positive without dementia).

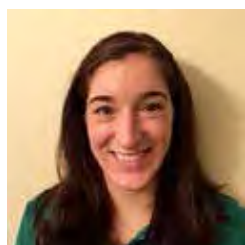
**Conclusions:** Cerebrovascular resistance is associated with cerebral amyloidosis and cognitive decline in preclinical and clinical Alzheimer's disease. Findings indicate that cerebrovascular stiffening may predate changes in gross CBF since increases in cerebrovascular resistance were evident prior (i.e. in preclinical groups) to differences in CBF observed in those with dementia.

#### **Paper Session 5. Dementia 1**

Friday, February 5, 9:15–10:45 AM in Salon F

# SLC Student Research Awards

The INS Student Liaison Committee (SLC), in conjunction with the INS Boston Program Committee, recognizes the following five students as well-deserving recipients of the **SLC Student Research Award**.



**Cara Cordeaux**

Graduate Student  
University of Connecticut

67. Profiles of Children Missed at Initial Autism Screening Compared to Early-Identified Peers

Cara Cordeaux, Marianne Barton, Deborah Fein

Thursday February 4  
9:00–10:30 AM

**Poster Session 2. ABI (Child), ADHD/Attention, Autism, and Learning Disabilities/Academic Skills**  
Gloucester Hall



**Christian LoBue**

Graduate Student  
UT Southwestern  
Medical Center

53. Earlier Age of Diagnosis in Alzheimer Disease by Sex: The Additive Effect of Traumatic Brain Injury History and Apolipoprotein e4

Christian LoBue, Matthew Clem, Kristin Wilmoth, Hannah Wadsworth, Heidi C. Rossetti, Fu L. Woon, John Hart, Kyle Womack, Munro Cullum

Saturday February 6  
9:00–10:30 AM

**Poster Session 8. Cognitive Intervention/Rehabilitation, Dementia, and Drugs**  
Gloucester Hall



**Johanna Calderon**

Postdoctoral Fellow  
Boston Children's  
Hospital, Harvard  
Medical School

2. Impact of Early-Term Birth on Neuropsychological and Psychiatric Outcomes in Adolescents with Congenital Heart Disease

Johanna Calderon, Christian Stopp, David Wypij, David DeMaso, Jane W. Newburger, David C. Bellinger

Friday February 5  
9:15–10:45 AM

**Paper Session 6. Medical/Neurological Disorders, Child**  
Salon G



**Kelly E. Jones**

Postdoctoral Fellow  
Kennedy Krieger Institute

2. Preliminary Validation of the BRIEF-2: Examination of Profiles Among ADHD Subtypes

Kelly E. Jones, Taylor Koriakin, Heather Schneider, Mark Mahone, Lisa A. Jacobson

Saturday February 6  
10:45 AM–12:15 PM

**Paper Session 12. Executive Functions/Frontal 2**  
Salon ABCDE



**Mitzi Gonzales**

Postdoctoral Fellow  
University of  
Texas Austin

3. Divergent Influences of Multiple Cardiovascular Risk Factors on Cognition, Grey and White Matter Morphology

Mitzi Gonzales, Olusola Ajilore, Rebecca Charlton, Jamie Cohen, Erica Sieg, Aimee Karstens, Shaolin Yang, Aifeng Zhang, Anand Kumar, Melissa Lamar

Thursday February 4  
9:15–10:45 AM

**Paper Session 2. Medical/Neurological Disorders, Adult**  
Salon G

# ABN The American Board of Professional Neuropsychology

*Your Credential—Our Mission*



The American Board of Professional Neuropsychology (ABN) has been granting board certification in clinical neuropsychology since 1982. ABN encourages the pursuit of excellence in the practice of clinical neuropsychology by offering a credentialing process, and it also offers consumers and the healthcare community a means of identifying well-qualified clinical neuropsychologists.



**THE ACADEMY OF THE AMERICAN BOARD OF PROFESSIONAL NEUROPSYCHOLOGY**  
*Excellence in Training Tomorrow's Neuropsychologists*



## **ABN has recently developed a new Post-Doctoral Training Recognition Program, the Academy of the American Board of Professional Neuropsychology (AABN<sup>SM</sup>)**

AABN<sup>SM</sup> is designed to recognize programs that offer the equivalent of a 2 year post-doctoral fellowship program, in a flexible manner, even in sites where there are 2 supervisors (one of whom must be board certified in neuropsychology).

AABN<sup>SM</sup> provides a consortium approach to training. Recognized programs have access to a large cache of didactic materials and information that augments the post-doctoral training experience. Thus, even a fellowship in a private practice, or other small setting can provide didactic training structured to follow Houston Conference Guidelines requirements.

Additionally, access to AABN<sup>SM</sup>'s archives of didactic materials as well as assistance with the evaluation and monitoring of the progress of fellows throughout the program is provided by AABN<sup>SM</sup>. Upon exiting an AABN<sup>SM</sup> recognized fellowship, individuals will be immediately eligible to apply for neuropsychology board certification.

AABN<sup>SM</sup> programs are currently recruiting fellows. Moreover, AABN<sup>SM</sup> is recruiting new training sites. For a list of recognized AABN<sup>SM</sup> sites, information on how to apply for a fellowship at an AABN<sup>SM</sup> site, or information regarding how a site may become recognized by AABN<sup>SM</sup>, go to:

[www.aabnonline.com](http://www.aabnonline.com)

or email the committee chair, Dr. Paula Cooper, at [paulacooperphd@gmail.com](mailto:paulacooperphd@gmail.com)



# Plenary Addresses

## Wednesday February 3, 4:30-5:30 PM



### Plenary Session A: The Human Brain Connectome and Cognitive and Affective Function: Normal Individual Variability, Aging, and Neurodegeneration

GRAND BALLROOM,  
SALON ABCDE

#### BRAD DICKERSON, MD

Associate Professor of Neurology,  
Harvard Medical School  
Director, Frontotemporal Dementia Unit,  
Massachusetts General Hospital  
Boston, Massachusetts, USA

#### Abstract

Modern neuroimaging techniques are providing revolutionary insights into the human brain connectome. We are now able to study—in living people—large-scale brain networks predicted from non-human primate tract tracing investigations and lesion neuropsychology. I will review knowledge of the localization and function of brain networks in the healthy brain, and evidence that measures of these networks illuminate individual differences in cognition, affect, and sensorimotor function. The modulation of network connectivity in relation to task performance, pharmacologic manipulation, or brain stimulation is providing new insights into neuroplasticity. Age-related cognitive decline may be explained in part by a "compromised connectome"; older adults lucky enough to be "superagers"—with youthful cognitive function—have preserved anatomy in key nodes of large-scale cognitive-affective brain networks. Patients with neurodegenerative diseases develop disconnection, dysfunction, and atrophy within brain networks subserving cognitive, affective, and sensorimotor function related to symptoms of their illness. Neurodegenerative diseases appear to progress in part by following the pathways of the brain's connectome.

## Thursday February 4, 11:00 AM-12:00 PM



### Plenary Session B: There's More There: Extracting New Information From the Functional MRI signal Using Novel Acquisition and Processing Methods

GRAND BALLROOM,  
SALON ABCDE

#### PETER A. BANDETTINI, PHD

Chief, Section on Functional Imaging Methods, Laboratory of  
Brain and Cognition, Intramural Research Program;  
Director, Functional MRI Core Facility;  
National Institute of Mental Health, National Institutes of Health (NIH)  
Bethesda, Maryland, USA

#### Abstract

Our group has been focusing for the past several years on developing methods for detecting and characterizing ever more subtle and elusive fMRI changes in task-based and resting-state fMRI. Using methods that incorporate novel acquisition methods, novel activation paradigms, and novel post-processing methods, we have generated some surprising findings. In this lecture, I will be discussing three primary approaches and findings. The first will be our approach to reducing artifactual time series noise and artifactual fluctuations. This approach involves the use of a multi-echo echo planar imaging (ME-EPI) acquisition. The principle we use is that blood oxygen level dependent (BOLD) shows echo time dependence while noise and artifact does not. Using this basic principle we are able to identify and remove non-BOLD signal changes. The second approach is massive averaging (9 hours of scanning) of a single subject's activation data and perform model-free analysis to determine that, in fact, all gray matter is active with even a simple task. Lastly, our third approach is to use windowed correlation analysis on time series to determine what ongoing task each subject is performing. This dynamic connectivity-based brain reading demonstrated to be more sensitive than magnitude assessment in determining ongoing tasks, and the informative connections extend well outside of the regions shown to change in magnitude with the task.

## Thursday February 4, 2:30-3:30 PM



### Plenary Session C: Modulating Brain Networks to Promote Recovery from Brain Injury

GRAND BALLROOM,  
SALON ABCDE

#### ALVARO PASCUAL-LEONE, MD, PHD

Professor of Neurology and Associate Dean  
for Clinical and Translational Research;  
Chief, Division of Cognitive Neurology;  
Director, Berenson-Allen Center for  
Noninvasive Brain Stimulation;  
Harvard Medical School and Beth  
Israel Deaconess Medical Center  
Boston, Massachusetts, USA

#### Abstract

Following a brain insult (e.g. following a stroke or traumatic brain injury), or as a consequence of the alteration of function in a specific brain region (for example due to a sustained change in afferent input or efferent demand), the affected neural network adapts fluidly. This neural plasticity can confer no perceptible change in the behavioral output of the brain, lead to changes demonstrated only under special testing conditions, or cause behavioral changes that may constitute symptoms of disease or represent paradoxical functional facilitations. A consequence of such a formulation is the notion that the manifestations of focal brain dysfunction are ultimately defined by brain plasticity. Thus, disability after a brain insult, is the consequence of plasticity, just as through plasticity it might be possible to recover from the functional consequences of a brain insult.

The challenge in interventional cognitive neuroscience and rehabilitation is to guide the plastic changes across the lifespan, or following a brain insult, in order to promote the best functional outcome for a given individual. This requires modulation of neural networks. The challenge is to learn enough about the mechanisms of plasticity and the nature of dynamics of neural networks to be able to suppress changes that may lead to undesirable behaviors while accelerating or enhancing those that result in a behavioral benefit for the patient. Neurostimulation, including non-invasive brain stimulation techniques, provide an opportunity to modulate plastic brain networks in a controlled and specific manner, and a growing body of evidence supports its utility in promoting recovery of function after a brain injury.

## Thursday February 4, 5:15-6:15 PM



### Plenary Session D— The Birch Lecture: Adolescence as a Sensitive Period of Social Brain Development

GRAND BALLROOM,  
SALON ABCDE

**SARAH-JAYNE BLAKEMORE, PHD**  
Royal Society University Research Fellow and  
Professor of Cognitive Neuroscience;  
Deputy Director, Institute of Cognitive Neuroscience;  
University College London  
London, England, UK

#### Abstract

The brain has evolved to understand and interact with other people. This talk focuses on how the social brain, that is the network of brain regions involved in understanding others, develops during adolescence. Adolescence is a time characterised by change - hormonally, physically, psychologically and socially. Social cognitive processes involved in navigating an increasingly complex social world continue to develop throughout human adolescence. Areas of the social brain undergo significant reorganisation in terms of structure and function during the second decade of life, which possibly reflects a sensitive period for adapting to the social environment. The changes in social environment that occur during adolescence might interact with increasing executive functions, heightened social sensitivity and the developing social brain to influence a number of adolescent behaviours, including risk-taking, peer influence and self-consciousness. I will discuss the importance of taking into account the social environment and the social brain when considering adolescent-typical behaviour.

## Friday February 5, 11:00-12:00 PM



### Plenary Session E: The Statistical Crisis in Science

GRAND BALLROOM,  
SALON ABCDE

**ANDREW GELMAN, PHD**  
Professor, Department of Statistics;  
Professor, Department of  
Political Science;  
Columbia University  
New York, USA

#### Abstract

Top journals in applied science routinely publish ridiculous, scientifically implausible claims, justified based on " $p < 0.05$ ." And this in turn calls into question all sorts of more plausible, but not necessarily true, claims, that are supported by this same sort of evidence. To put it another way: we can all laugh at studies of ESP, or ovulation and voting, but what about MRI studies of political attitudes, or embodied cognition, or stereotype threat, or, for that matter, the latest potential cancer cure? If we can't trust p-values, does experimental science involving human variation just have to start over? Can Bayesian inference supply a solution? Maybe. These are not easy problems, but they're important problems.

## Friday February 5, 3:45-4:45 PM



### Plenary Session F: The Development of Executive Functions: Principles and Strategies for Aiding That and Differences by Genotype and Gender

GRAND BALLROOM,  
SALON ABCDE

**ADELE DIAMOND, PHD**  
Canada Research Chair Tier 1 Professor of  
Developmental Cognitive Neuroscience,  
Head, Division of Developmental Cognitive  
Neuroscience, Department of Psychiatry;  
Associate Member, Department of Psychology;  
University of British Columbia, Vancouver, British Columbia, Canada

#### Abstract

Among the most important abilities children can develop are the "executive functions" (EFs). EFs consist of 3 core skills: inhibitory control (e.g., resisting one's first impulse and giving a wiser, more considered response; staying focused and persevering), working memory (e.g., mentally working with and relating facts and ideas), and cognitive flexibility (e.g., thinking outside the box; looking at familiar problems in new ways; flexibly adjusting to changed demands or priorities). These are critical for reasoning, creative problem-solving, self-control, and success in all life's aspects. They are often more predictive than IQ or SES.

Executive functions depend on prefrontal cortex (PFC) and interrelated brain regions. Unusual properties of PFC make it vulnerable to environmental and genetic variations that have little effect anywhere else in the brain. This has implications for how best to treat different types of ADHD, why the brightest people sometimes have the most fragile personalities especially when stressed, and why the Yerkes-Dodson curve (that cognitive performance is better when one is a bit aroused rather than calm) does not seem to apply to females.

EFs can be improved even in the very young by exercising and challenging them, much as physical exercise hones our bodies. I will walk through some ways to aid EF development. A few widely-held beliefs will be de-bunked: Aerobic exercise (by itself) does not improve EFs (or memory). Transfer is not wide; people only improve on what they practice. I will also present the data that have led me to predict that the activities that most successfully improve EFs will be found to be those that not only directly train and challenge diverse EF skills but also indirectly support EFs by addressing emotional, social, and physical needs.

## Friday February 5, 11:00 AM-12:00 PM



### Plenary Session G—The INS Presidential Address: Developing Neuropsychology in Developing Countries: An African Perspective

GRAND BALLROOM,  
SALON ABCDE

**ANN D. WATTS, PHD**  
Clinical Psychologist, Medical Centre West, Entabeni Hospital  
Durban, South Africa  
Part-time Lecturer, University of KwaZulu-Natal  
Visiting Lecturer, University of Zululand

#### Abstract

More than 80% of the world's population live in the less developed countries (World Bank, 2014), where neurological, mental health, developmental and substance use (NMDS) disorders are highly prevalent. This cluster of disorders represents a growing public health problem especially in these under resourced and less developed countries where the treatment gap and contribution to the burden of disease is disproportionately large. This underscores the need for neuropsychological research, education, training and services in these regions of the world. However, the relevance of neuropsychology, with its Western roots, in these countries is not immediately apparent to policy makers who frequently do not understand the complex impacts of NMDS disorders on population health and economic growth. Instead their focus is on preventing or containing the poverty and food insecurity which are prioritized as primary threats to development.

This presentation will address critical priorities and challenges related to establishing and growing neuropsychology within this context. In doing so an African perspective will be used to illustrate evolving issues, including relevance and elitism, the use of assessment and therapeutic techniques within the context of multicultural diversity, and human rights and policy imperatives.

# Invited Symposia

**Thursday February 4, 12:45-2:15 PM**



## **Invited Symposium 1: The Contributions of Neuroimaging to Understanding Autism**

**CHAIR & DISCUSSANT:  
DEBORAH FEIN**

**PRESENTERS: INGE-MARIE EIGSTI, VINOD MENON,  
ROBERT SCHULTZ, ADRIANA DIMARTINO**

**SALON ABCDE**

### **Chair's Biography**

Deborah Fein is a clinical neuropsychologist who has been doing autism research since the late 1970's. She is currently Board of Trustees Distinguished Professor in the Departments of Psychology and Pediatrics at the University of Connecticut. She has investigated numerous areas in autism, including neuroimaging, biochemical abnormalities, language and memory, sensory abnormalities, outcome, early detection, and screening. She is the author or editor of "The Neuropsychology of Autism", "Autism in Your Classroom", and the widely used screening tool, "Modified Checklist for Autism in Toddlers (MCHAT)" and has a forthcoming book with Guilford on activities for parents of toddlers at risk to do with their children. She has also authored over 150 articles on autism. She was Secretary of the International Society for Autism Research and was the Intellectual and Behavior Assessment topic chair for this year's International Meeting for Autism Research.

### **Symposium Summary**

Dr. Schultz is a member of the Infant Brain Imaging Study group, and will present up-to-date results from infant brain imaging. Such structural imaging data from a period of development when symptoms are not yet apparent or are not yet fully developed can shed crucial light on the causes of deviations from typical social and cognitive development. Dr. Di Martino will present functional brain imaging results from prekindergarten age children, imaged during sleep. These data shed light on the organization of functional networks in early childhood and their relationships with symptomatology. Dr. Menon will present results on whole brain intrinsic functional connectivity in ASD in later childhood; results suggest that hyperconnectivity within the several large-scale networks, and especially the salience network, can correctly classify autism cases. This network participates in attention allocation to salient stimuli and may contribute to diminished interest in social interaction. Dr. Eigsti will present data on activation of different brain areas during language processing in adolescents with high-functioning autism and those who have moved off the autism spectrum, to explore the mechanisms of this 'optimal outcome'. Dr. Fein will present a brief discussion, considering the developmental implications of the 4 papers from infancy through adolescence, and consider ways to characterize the phenotype that may be crucial for integrating findings from disparate samples.

### **Symposium Abstracts**

1. FEIN, D The Contributions of Neuroimaging to Understanding Autism
2. SCHULTZ, R MRI Findings from the Collaborative Infant Brain Imaging Study (IBIS)
3. DIMARTINO, A An Emerging Paradigm for Examination of Autism in Early Brain Development
4. MENON, V Functional and Structural Brain Organization in Autism: Linking Physiology and Behavior
5. EIGSTI, I Functional Brain Activation During Language Comprehension in Youth with Verbal Autism Spectrum Disorder (ASD), Typical Development, and Optimal Outcomes from ASD

**Thursday February 4, 3:45-5:05 PM**



## **Invited Symposium 2: Sleep and Cognition**

**CHAIR: IAN M. COLRAIN**

**PRESENTERS: MARK S. ALOIA, DONALD  
L BLIWISE, IAN M. COLRAIN**

**SALON G**

### **Chair's Biography**

Dr. Ian Colrain is the Executive Director of Brain Sciences research at SRI International. He also holds an appointment as a Professorial Fellow in Psychology at The University of Melbourne. He received a Ph.D. in Sleep Physiology from the University of Tasmania where he also completed a B.Sc. Honors degree in Computer Science and Psychology. Following a post-doctoral fellowship in Anatomy, he held academic appointments in Neuroscience at the University of Auckland in New Zealand and the University of Melbourne. Prior to founding the sleep program at SRI he was the Senior Clinical Research Scientist at the Stanford Sleep Disorders Clinic. He is the author of over 250 scientific papers chapters and presentations, is an associate editor for the journals SLEEP and Frontiers in Respiratory Physiology, and is an active member of the Academy of Sleep Medicine and the Sleep Research Society. He has been funded to conduct sleep studies on children adolescents and adults by the National Institute on Alcohol Abuse and Alcoholism, the National Institute on Drug Abuse and the National Heart Lung and Blood Institute of the NIH, and works with early stage medical device companies to develop new treatments for sleep disorders.

### **Symposium Summary**

Sleep is a fundamental behavior that supports physical, mental and emotional health and facilitates neuropsychological functioning in humans of all ages. While the fundamental question of why sleep is needed remains largely unanswered, it is clear, that insufficient sleep, disrupted sleep or poorly timed sleep can be extremely disruptive to human health and lead to diminished cognitive capability. Both sleep and cognitive function vary systematically across the lifespan, and interrelationships are clearly complex and may be very different at different points in the normal developmental trajectory. For example, decreases in slow wave sleep and its associated delta EEG power may be associated with decreased cognitive function in older adults, but even more dramatic decreases in delta power across adolescence are typically occurring at a time when cognitive function is improving. As has historically been the case in neuropsychology, the role of sleep in supporting cognitive function can be informed by the examination of pathology. In this symposium three areas of disease known to be associated with sleep disruption will be presented in the context of normal age-related changes in both sleep and cognitive function. Dr. Bliwise will discuss the role of sleep in supporting cognitive function normal aging and relations between sleep and cognitive decline in dementia. Dr. Aloia will discuss interrelationships between Obstructive Sleep Apnea, brain structure and cognitive function and the role of CPAP therapy in restoring brain and cognitive health. Finally, Dr. Colrain will discuss the role of sleep and sleep EEG changes in brain and cognitive changes associated with Alcohol Use Disorder.

### **Symposium Abstracts**

1. COLRAIN, IM Sleep and Cognition
2. BLIWISE, DL Cognition and Sleep in Normal and Pathological Aging
3. ALOIA, MS Neuropsychological Consequences of Obstructive Sleep Apnea
4. COLRAIN, IM Alcoholism: Sleep, Brain and Cognitive Consequences



## Friday February 5, 12:45-2:15 PM



### **Invited Symposium 3: Genes, Environments and Their Interplay in Cognitive Aging and Dementia**

**CHAIR: NANCY PEDERSEN**

**PRESENTERS: WILLIAM KREMEN,  
MATT MCGUE, MARGARET  
GATZ, NANCY PEDERSEN**

**DISCUSSANT: SUDHA SESHADRI**

**SALON ABCDE**

### **Chair's Biography**

Deborah Fein is a clinical neuropsychologist who has been doing autism research since the late 1970's. She is currently Board of Trustees Distinguished Professor in the Departments of Psychology and Pediatrics at the University of Connecticut. She has investigated numerous areas in autism, including neuroimaging, biochemical abnormalities, language and memory, sensory abnormalities, outcome, early detection, and screening. She is the author or editor of "The Neuropsychology of Autism", "Autism in Your Classroom", and the widely used screening tool, "Modified Checklist for Autism in Toddlers (MCHAT)" and has a forthcoming book with Guilford on activities for parents of toddlers at risk to do with their children. She has also authored over 150 articles on autism. She was Secretary of the International Society for Autism Research and was the Intellectual and Behavior Assessment topic chair for this year's International Meeting for Autism Research.

### **Symposium Summary**

Nancy L. Pedersen is a Professor of Genetic Epidemiology at Karolinska Institutet. A graduate of the University of Minnesota (B.A.) and the University of Colorado (M.A., Ph.D.), she has been at Karolinska Institutet for 35 years, served as the vice chair and chair of the Department of Medical Epidemiology and Biostatistics, and as the Vice Dean of research at KI. She is a member of the Nobel Assembly at Karolinska Institutet, which awards the Nobel Prize in Physiology or Medicine. As principal investigator of several twin studies of aging, Pedersen has studied how genetic influences may change in importance later in life. Her current research efforts are focused both on gene-environment interplay in healthy aging as well as on the etiology of chronic diseases of the elderly including dementia, Parkinson's disease, late onset depression and cardiovascular disease. Key to her research is the study of comorbidity and the extent to which there are pleiotropic and epistatic effects explaining these comorbidities and associations. She is currently identifying the mechanisms by which methylation patterns in the brain and blood change with cognitive decline, dementia and cardiovascular disease. Dr. Pedersen has over 530 peer-reviewed publications in scientific journals and has mentored 30 PhD students and 16 postdocs.

### **Symposium Abstracts**

1. PEDERSEN, N Genes, Environments and Their Interplay in Cognitive Aging and Dementia
2. KREMEN, WS Contributions of Behavior Genetics to Cognitive and Brain Aging
3. MCGUE, M Late-Life Change in Cognitive Function: Evidence from Longitudinal Twin Research
4. GATZ, M Contributions of Twin Studies to Discerning Sex Differences in Dementia
5. PEDERSEN, N Epigenetic processes: A Potential Mechanism for Gene Environment Interplay?

## Saturday February 6, 9:00-10:30 AM



### **Invited Symposium 4: Cognitive Rehabilitation and Neuroimaging in Clinical Populations**

**CHAIR: JOHN DELUCA**

**PRESENTERS: JOHN DELUCA, NANCY  
D. CHIARAVALLLOTI, NATALIA OJEDA  
DEL POZO, MATCHERI S. KESHAVAN**

**DISCUSSANT: ERIN BIGLER**

**SALON ABCDE**

### **Chair's Biography**

John DeLuca, PhD, is the Senior Vice President for Research and Training at Kessler Foundation, a Professor in the departments of Physical Medicine & Rehabilitation, and Neurology at Rutgers - New Jersey Medical School. He is board certified in Rehabilitation Psychology by the American Board of Professional Psychology, and he is a Fellow of the American Psychological Association and the National Academy of Neuropsychology. Dr. DeLuca has been involved in neuropsychology and cognitive neuroscience research for over 25 years. He is internationally known for his research on disorders of memory, information processing and rehabilitation in a variety of clinical populations including: multiple sclerosis, traumatic brain injury, aneurysmal subarachnoid hemorrhage, and Chronic Fatigue Syndrome. He has published over 250 articles, books and chapters in these areas, and received over 30 million dollars in grant support for his research. Dr. DeLuca's most recent research ventures include the cerebral mapping of human cognitive processes using advanced neuroimaging, as well as the development of research-based techniques to improve cognitive impairment. He is the editor of four books, and is a co-Chief editor of the recently published "Encyclopedia of Clinical Neuropsychology". He has served as co-director for several advanced research and training programs sponsored by NIDRR, RSA, and NIH. He has received numerous honors and awards from various organizations including the International Neuropsychological Society, the National Academy of Neuropsychology and the American Psychological Association.

### **Symposium Summary**

Evidence for cognitive rehabilitation has been accumulating for the past several decades across various clinical populations. More recently this evidence has started to include changes in the brain which have been shown to be associated with rehabilitation effectiveness. This symposium will summarize the behavioral and neuroimaging data associated with cognitive rehabilitation in four clinical populations: Traumatic Brain Injury, Schizophrenia, Multiple Sclerosis and Parkinson's disease. Presentations will be given by leading researchers/clinicians from each respective field. Speakers will present current research findings, discuss the limitations of this work and discuss future research needs regarding behavioral and neuroimaging aspects of cognitive rehabilitation in each of their respective areas of expertise. The four presentations will be followed by a critical review of the field in general and a discussion on how such work impacts on clinical applicability currently and in the future.

### **Symposium Abstracts**

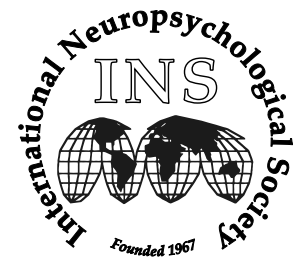
1. DELUCA, J Cognitive Rehabilitation and Neuroimaging in Clinical Populations
2. DELUCA, J Cognitive Rehabilitation in Multiple Sclerosis
3. CHIARAVALLLOTI, ND Cognitive Rehabilitation and Neuroimaging in Traumatic Brain Injury (TBI)
4. OJEDA, N Cognitive, Functional and Brain Changes in Parkinson's Disease After Cognitive Remediation
5. KESHAVAN, M Cognitive Rehabilitation and Neuroimaging in Schizophrenia

# Ancillary Meetings

INS is pleased to host ancillary meetings, organized by individuals and professional groups who are attending the 44th Annual Meeting.

**Please note that INS name badges must be worn when using ancillary space, and only ancillary meetings that have been pre-authorized by the INS Executive Office are permitted.**

The following schedule of ancillary meetings is provided for the convenience of our attendees and may not be complete. Additional meetings and changes will be posted on the message boards located near the INS Registration Desk on Level Three.



| Event Name   | Organization  | Date                    | Time                                 | Location             |
|--|---|-------------------------|--------------------------------------|----------------------|
| <b>APPCN Welcome Breakfast</b>   | Association of Postdoctoral Programs in Clinical Neuropsychology (APPCN)                                      | Tue Feb 2               | 7:00-8:30 AM                         | Wellesley            |
| <b>APPCN Board Meeting</b>   | Association of Postdoctoral Programs in Clinical Neuropsychology (APPCN)                                      | Tue Feb 2               | 5:00-7:00 PM                         | Brandeis             |
| <b>MNS Locals Lounge</b>   | Massachusetts Neuropsychological Society (MNS)  | Tue Feb 2–<br>Sat Feb 6 | Time varies daily;<br>please stop by | Suffolk              |
| <b>SCN (Div. 40) Executive Committee Meeting</b>   | Society for Clinical Neuropsychology (SCN), APA Division 40   | Wed Feb 3               | 7:30-11:30 AM                        | Provincetown         |
| <b>AACN Board of Directors Meeting</b>   | American Academy of Clinical Neuropsychology (AACN)   | Wed Feb 3               | 9:00 AM-1:00 PM                      | Regis                |
| <b>ABCN Board of Directors Meeting</b>   | American Board of Clinical Neuropsychology (ABCN)   | Wed Feb 3               | 1:00-5:00 PM                         | Regis                |
| <b>AACN Student Affairs Committee Meeting</b>  | AACN Student Affairs Committee  | Wed Feb 3               | 2:00-4:30 PM                         | Provincetown         |
| <b>SCN-EMA Town Hall Meeting</b>   | SCN-EMA (Society of Clinical Neuropsychology-Ethnic Minority Affairs)   | Wed Feb 3               | 6:30-7:30 PM                         | Berkeley             |
| <b>APPCN General Membership Meeting</b>  | Association of Postdoctoral Programs in Clinical Neuropsychology (APPCN)                                      | Thu Feb 4               | 8:00-9:00 AM                         | Wellesley            |
| <b>SCN Scientific Advisory Committee Meeting</b>   | Society for Clinical Neuropsychology (SCN), APA Division 40   | Thu Feb 4               | 8:00-9:00 AM                         | Boston Univ.         |
| <b>BCM/TCH Fellowship Coffee Hour</b>  | Baylor College of Medicine  | Thu Feb 4               | 8:30-10:00 AM                        | Clarendon            |
| <b>AITCN Annual Executive Committee Meeting</b>  | Association for Internship Training in Clinical Neuropsychology (AITCN)                                       | Thu Feb 4               | 9:00-10:00 AM                        | Provincetown         |
| <b>APA/SCN Program Committee Meeting</b>   | Society for Clinical Neuropsychology (SCN), APA Division 40   | Thu Feb 4               | 12:00-1:00 PM                        | Provincetown         |
| <b>INS Past Presidents' Lunch</b>  | International Neuropsychological Society  | Thu Feb 4               | 12:00-2:00 PM                        | Regis                |
| <b>Neuropsychology history from the perspective of a pioneering female scientist: Dr. Suzanne Corkin</b> | Women in Neuropsychology (WIN), Subcommittee of APA Division 40   | Thu Feb 4               | 6:30-7:30 PM                         | Clarendon & Berkeley |
| <b>Brown University Alumni Reception</b>   | Brown University  | Thu Feb 4               | 6:30-8:00 PM                         | Arlington            |
| <b>Ethnic Minority Trainee Perspectives in Neuropsychology</b>   | Open session discussion topic: training and professional development issues faced by ethnic minority trainees | Thu Feb 4               | 6:30-8:00 PM                         | Provincetown         |
| <b>JINS Reception</b>  | Journal of the International Neuropsychological Society / Cambridge University Press                          | Thu Feb 4               | 6:30-8:30 PM                         | Regis                |
| <b>Clinical Neuropsychology Synarchy (CNS)</b>   | Clinical Neuropsychology Synarchy (CNS)   | Thu Feb 4               | 6:30-8:30 PM                         | Boston Univ.         |
| <b>Mayo Clinic Alumni Association Reception</b>  | Mayo Clinic Alumni Association  | Thu Feb 4               | 7:00-9:00 PM                         | Harvard              |
| <b>SCN (Div. 40) Education Advisory Committee (EAC) Meeting</b>  | Society for Clinical Neuropsychology (SCN), APA Division 40   | Fri Feb 5               | 9:30-11:00 AM                        | Brandeis             |
| <b>University of Michigan Reception</b>  | University of Michigan  | Fri Feb 5               | 8:00-10:00 PM                        | Regis                |

# Assessments YOU Depend On

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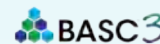
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# Continuing Education Program

*INS continuing education sessions are designed to provide a practical review of current research as well as information on clinical and technological advances in specific areas of content relevant to neuropsychology and the cognitive neurosciences.*

## CE Course Registration

Continuing Education (CE) options listed below are not included in the general registration fee. You must register and pay additional fee(s) in order to attend CE workshops, or to receive CE credit for attending plenary sessions.

Your name badge is required for admittance to CE Workshops, and will contain the session number of any CE sessions for which you are registered.

## How to Obtain CE Credits After Registering

Please take the attendance slip from the proctor as you enter, complete it during the session, and return it to the proctor as you exit (your full attendance must be documented in order for credits to be granted).

An online evaluation form must also be completed in order for credits to be given. Once the evaluation is completed, a certificate of completion may be downloaded. **Evaluations will be available online at the INS website approximately 24 hours after each session has concluded.**

To access online evaluations, visit the INS website at [www.the-ins.org](http://www.the-ins.org), then simply follow the link on the home page to obtain CE credits for the 2016 Annual Meeting.



### APA Continuing Education Credit

The International Neuropsychological Society is approved by the American Psychological Association to

sponsor Continuing Education for psychologists. INS maintains responsibility for this program and its content. Up to 17.5 credit hours are available for this program. All CE sessions are geared for advanced level instructional activity.

## CE Workshops

**All CE workshops require advance registration and an additional fee in order to attend.**

All 1.5-hour CE workshops are scheduled from 7:20–8:50 AM and include a continental breakfast that is served from 7–7:15 AM (morning sessions will begin promptly at 7:20 AM).

## Plenary Sessions

All plenary sessions are offered for one hour of continuing education (CE) credit. A separate registration and fee must be completed—either before or following completion of the plenary session—and all CE requirements must be met in order for credit(s) to be granted.

**Please Note:** In order to receive continuing education credit(s) for participation in Plenary Sessions, either now or at a later time, attendees must obtain an attendance slip from the volunteer upon their entry to the session and must submit the completed slip to the volunteer upon their exit. No credits can be granted, at present or in the future, without submission of completed attendance slips.

## INS CE Committee

Raul Gonzalez has served as the Director of the INS Continuing Education Committee since February 2013.



# CE Workshops

## Wednesday, February 3: Half-Day CE Workshops (3-Hour)

### February 3, 9:00 AM-12:00 PM



#### **CE 1: Functional MRI: The History, Basics, Cutting Edge, and Future** SALON F

**PETER A. BANDETTINI, PHD**  
Chief, Section on Functional Imaging  
Methods, Laboratory of Brain and Cognition,  
Intramural Research Program;  
Director, Functional MRI Core Facility;  
National Institute of Mental Health,  
National Institutes of Health (NIH)  
Bethesda, Maryland, USA

#### **Abstract**

In this three hour lecture, I will give a broad yet hopefully informative and entertaining perspective of fMRI technology, methodology, signal interpretation, and to some degree, fMRI applications. The lecture will start with a detailed overview of how fMRI began. It will then continue with an in-depth description of fMRI contrast mechanisms – including blood oxygen level dependent (BOLD) contrast but going beyond this to other less common but nevertheless important contrast mechanisms – including blood perfusion, volume, and cerebral oxidative metabolic rate (CMRO2). Following this, the lecture will include a discussion of the principles of fMRI temporal and spatial resolution, as well as how to avoid common mistakes in fMRI signal interpretation. In the “cutting edge” section of this lecture I will discuss some of the more recent developments of fMRI, including resting state fMRI, fMRI decoding, individual classification with fMRI, and real time fMRI. I will conclude with some thoughts on the most interesting directions where fMRI is heading. These include the clinical use of fMRI on individuals to aid in psychiatric/neurologic/developmental disorder diagnosis as well as prediction of outcome and monitoring of therapy.

### February 3, 9:00 AM-12:00 PM



#### **CE 2: Science and Practice Considerations for Bilingual Neuropsychology: A Focus on the Hispanic/Latino Community** SALON G

**MELISSA LAMAR, PHD**  
Associate Professor of Psychiatry and Psychology,  
Director of Cognitive Aging and Vascular Health,  
University of Illinois at Chicago  
Chicago, Illinois, USA



**MARIA T. SCHULTHEIS, PHD**  
Professor and Director of Clinical Training,  
Department of Psychology,  
Drexel University  
Philadelphia, Pennsylvania, USA

#### **Abstract**

There are ~55 million Hispanics/Latinos living in the US representing 17% of the total US population, these numbers will more than double to ~130 million or 31% of the US population by 2060 (CDC, 2014); thus, understanding the needs of this community as it relates to the science and practice of neuropsychology is critical. This course will first review the literature on cognition and brain aging as it relates to Hispanics/Latinos and highlight key areas of concern for both research and clinical work with this population. Second, clinical considerations will be addressed more specifically as they relate to adequate assessment, including review of considerations for selection of tests, norms and interpretation of Hispanic/Latino evaluations. Third, ethical considerations for working with bilingual individuals will be addressed. The workshop will conclude with a brief discussion of areas for future directions for both research and clinical needs.

### February 3, 9:00 AM-12:00 PM



#### **CE 3: Advancing Developmental Science Through the Application of Pediatric Neuropsychology in Africa** BACK BAY (DARTMOUTH-FAIRFIELD)

**MICHAEL J. BOIVIN, PHD, MPH**  
Professor of Psychiatry and of Neurology/Ophthalmology,  
Michigan State University  
East Lansing, Michigan, USA  
Adjunct Associate Professor of Psychiatry,  
University of Michigan  
Ann Arbor, Michigan, USA



**BRUNO GIORDANI, PHD**  
Professor of Psychiatry, Neurology, and Psychology;  
Professor, School of Nursing;  
Chief Psychologist, Department of Psychiatry;  
Associate Director, Michigan Alzheimer's Center;  
University of Michigan Faculty Ombuds;  
University of Michigan  
Ann Arbor, Michigan, USA

#### **Abstract**

Using exemplars from our research over the past 25 years, we present an overview of the application of neuropsychology to evaluate public health factors related to risk and resilience in sub-Saharan African children in resource-limited settings. We will present examples of clinical intervention and observational studies in early and middle childhood pertaining to pediatric infectious disease (e.g., HIV, Malaria), chronic disease (e.g., sickle-cell anemia), environmental risk factors (e.g., konzo disease), and neurodevelopmental intervention studies (e.g., computerized cognitive training, caregiver training). The theoretical construct of a universal brain/behavior omnibus (Boivin & Giordani, 2009) will be used as an organizational framework for understanding the orchestration of developmental plasticity in brain/behavior development, including illustrations of interactions in brain/behavior development at culture-brain, culture-gene, and gene-brain levels. Our principal resource for this workshop will be our edited book the Neuropsychology of Children in Africa: Perspectives on Risk and Resilience (Springer Publishing, May 2013), as well as a forthcoming review of child neurodisability in the global context, to be published in Nature, 2016. The integration of neuropsychological science with risk and resilience in the global health context can provide a powerful vantage point for outcome in clinical trials, specifically, and for the universal advancement of brain-behavior science in children, in general.

## Wednesday, February 3: Half-Day CE Workshops (3-Hour)

### February 3, 1:00 PM-4:00 PM



#### **CE 4: Characterizing and Guiding Brain Plasticity Across the Lifespan**

**SALON F**

**ALVARO PASCUAL-LEONE, MD, PHD**

Professor of Neurology and Associate Dean for Clinical and Translational Research; Chief, Division of Cognitive Neurology; Director, Berenson-Allen Center for Noninvasive Brain Stimulation; Harvard Medical School and Beth Israel Deaconess Medical Center Boston, Massachusetts, USA

#### **Abstract**

The human brain is made up of neurones, highly sophisticated and stable cellular structures. However, neurones are engaged in dynamically changing networks that provide a most energy efficient, spatially compact, and precise means to process input signals and generate adaptable responses to a changing environment. Plasticity is an intrinsic property of such networks, and may be best conceptualized as evolution's invention to enable the nervous system to escape the restrictions of its own genome (and its highly specialized cellular specification), and thus adapt to environmental pressures, physiologic changes, and experiences.

Consider the challenges faces by a musician. Playing a musical instrument, requires more than factual knowledge about the musical instrument and about the mechanics of how it is played. The central nervous system has to acquire and implement a "translation mechanism" to convert knowledge into action. These translation capabilities, acquired over years of practice, result in changes in the organization of the brain. Initially, while learning a musical instrument (as indeed while acquiring any other skill) rapid changes take place in the brain, that probably represent the unmasking and activation of existing pathways. Eventually, over months and years of sustained practice, more stable, structural changes appear to take place.

Beyond such learning-realted brain changes, the brain also changes across the lifespan in response to environmental influences, life events, experiences, etc. At the same time, the mechanisms of plasticity and the resulting brain dynamics vary, as indeed they vary across individuals and are modified by genetic predispositions, environmental influences, life experiences and even age. Innovative experimental paradigms can assess cortical plasticity in humans, *in vivo*, across the lifespan, and offer translatable biomarkers that can bridge the gap between animal models and humans.

Ultimately, changes in brain plasticity and dynamics may proof maladaptive and lead to disease. Aberrant, excessive or insufficient, or mistimed plasticity may represent the proximal pathogenic cause of neurodevelopmental and neurodegenerative disorders such as autism spectrum disorders, schizophrenia, or Alzheimer's disease. On the other hand, optimizing activity within and across brain networks can promote brain health, sustain cognitive function and well-being across the life-span, and leverage the impact of brain function on overall health (salutogenesis).

Supported by grants from the National Institutes of Health, the Sidney-Baer Foundation, and Harvard Catalyst.

### February 3, 1:00 PM-4:00 PM



#### **CE 5: Cognitive Aging in the Digital Era: Role of Global Partnerships**

**SALON G**

**RHODA AU, PHD, MBA**

Professor of Neurology, Boston University School of Medicine Senior Investigator and Director of Neuropsychology, Framingham Heart Study Boston, Massachusetts, USA

#### **Abstract**

Current approaches to study cognitive aging and dementia take a largely silo approach that leads to incremental progress tied to pre-existing presumptions. Accepting the reality that what we know may be far less than what we don't know, and that true paradigmatic shifts in science often are galvanized by those coming from outside the inner academic circles, it is important to look beyond the traditional and embrace new approaches. Digital technology and big data is fueling unprecedented new directions in the commercial community. President Obama's Precision Medicine Initiative and NIH's interest in a million person megastudy is also creating a ground shift in what might be the more effective means for conducting medical research. Within this context, how we study outcomes of cognitive aging, including those associated with traumatic brain injury, progressive and non-progressive neurological disorders, developmental learning processes needs to be considered. The objective of this course is to introduce how digital technologies and global partnerships can lead to transformative research methods from which to develop more effective strategies for promoting cognitive health, AD disease prevention and early detection capabilities of previously believed asymptomatic stages to facilitate effective intervention strategies (e.g., drug development and psychosocial/behavioral interventions).

### February 3, 1:00 PM-4:00 PM



#### **CE 6: Dynamic Considerations in Neuropsychological Assessment of Depressive Disorders: State, Trait, Scar and Burden**

**BACK BAY (DARTMOUTH-FAIRFIELD)**

**SCOTT A. LANGENECKER, PHD**

Associate Professor of Psychiatry and Psychology The University of Illinois at Chicago Chicago, Illinois, USA

#### **Abstract**

Depression is a frequently occurring psychiatric disorder, with a yearly prevalence of nearly 10% in the adult population, and lifetime prevalence around 20%. Depression is also frequently observed as a comorbid condition with other disorders, such as dementia, cardiovascular illness, traumatic brain injury, multiple sclerosis, learning disability, etc., frequently as a secondary outcome. Tremendous strides have been made toward understanding the neuropsychological, neuroanatomical, and neuroimaging findings associated with depression. Whereas understanding of the neuroanatomical networks involved in depression and related mood disorders remains in an adolescent phase, neuropsychological findings in depression and related mood disorders are fairly well codified at this point. The neuropsychological findings in depression include difficulties in attention, psychomotor speed, executive functioning, memory, and emotion recognition. In addition, there are a number of clinical, course, lifespan and demographic features that substantially impact cognitive performance in the context of a mood disorder. These include family history, age of onset, polypharmacy/substance abuse, medical complications, symptom levels, greater severity, number of episodes, and resistance to traditional treatments. Whereas the etiologies for depression-associated cognitive difficulties are heterogeneous, the co-occurrence of features of depression and cognitive difficulties of specific types suggests a common set of neural networks that may be adversely affected, including medial and ventral frontal, limbic, and basal ganglia structures. Neuroimaging paradigms offer meaningful and translational techniques for probing these affected circuits and for understanding treatment options and targets.



## Thursday, February 4: Breakfast CE Workshops (1.5-Hour)

### February 4, 7:20 AM-8:50 AM



#### **CE 7: Chemical Exposures and the Nervous System: Clinical Findings and Research Evidence**

**SALON F**

**ROBERTA F. WHITE, PHD**

Chair and Professor,  
Department of Environmental Health,  
Boston University School of Public Health  
Professor and Attending in  
Neurology (Neuropsychology),  
Boston University School of Medicine  
Boston, Massachusetts, USA

#### **Abstract**

Effects of exposures to substances with neurotoxic properties such as heavy metals, organic solvents, pesticides/insecticides, and carbon monoxide include behavioral and neuroimaging changes that can be characterized both clinically and in epidemiologic research using neuropsychological and neuroimaging methods. The field of inquiry on these effects is broadly known as behavioral toxicology and has advanced significantly in the past 30 years. This workshop will briefly review classes of known neurotoxicants and typical sources of exposure to them. It will describe the methods by which particular substances become identified as neurotoxic. Strategies for clinical assessment and for research investigations of exposure effects will be outlined. Research and clinical examples will be provided, with a focus on metals and gases. The limitations of clinical and research applications of neuropsychological and neuroimaging methods will be explored, and current challenges and future directions in the field of behavioral toxicology will be described.

### February 4, 7:20 AM-8:50 AM



#### **CE 8: Mild Cognitive Impairment and Preclinical Alzheimer's Disease: Concepts in Need of Input from Neuropsychology**

**SALON G**

**MARK W. BONDI, PHD, PHD**

Professor of Psychiatry,  
University of California, San Diego  
Director, Neuropsychological Assessment Unit,  
VA San Diego Healthcare System  
San Diego, California, USA

#### **Abstract**

This workshop will present updated diagnostic criteria, with a focus on the neuropsychological features of mild cognitive impairment (MCI) and preclinical Alzheimer's disease (AD), in the context of the pathogenesis of AD. Seeking to refine diagnostic and prediction models, in a series of studies we have compared the conventional criteria, for example as operationalized by the Alzheimer's Disease Neuroimaging Initiative (ADNI), and our actuarial neuropsychological method. Results from these studies suggest that conventional criteria are susceptible to both false positive and false negative diagnostic errors, whereas MCI participants diagnosed via neuropsychological criteria yield dissociable cognitive phenotypes, significant biomarker associations, more stable diagnoses, and greater percentages who progress to dementia than conventional MCI diagnostic criteria. We further extend this actuarial method to support refinement of the research criteria for preclinical AD diagnosis. This workshop reflects the research and clinical advances in identifying MCI, examining its biomarker signatures, and offers new opportunities for diagnosis, prevention, and treatment of AD in its prodromal period.

## Friday, February 5: Breakfast CE Workshops (1.5-Hour)



### **February 5, 7:20 AM-8:50 AM**

#### **CE 9: Cognitive and Behavioral Aspects of Frontotemporal Degeneration**

**SALON F**

**KATYA RASCOVSKY, PHD**

Research Assistant Professor, Department  
of Neurology and Penn Frontotemporal Degeneration Center,  
Perelman School of Medicine, University of Pennsylvania  
Philadelphia, Pennsylvania, USA

#### **Abstract**

Frontotemporal degeneration (FTD) can manifest as a spectrum of clinical syndromes, ranging from behavioral impairment to language or motor dysfunction. Recently, revised diagnostic criteria have been proposed for the behavioral and progressive aphasia syndromes associated with frontotemporal degeneration. The course will summarize these diagnostic guidelines, and highlight some lingering controversies in the classification of FTD clinical syndromes. We will discuss common tools and methods used to identify the insidious cognitive and behavioral changes of behavioral variant frontotemporal dementia (bvFTD). With regards to primary progressive aphasia (PPA), we will discuss the scope of the semantic disorder in semantic-variant PPA, the nature of the speech disorder in non-fluent, agrammatic PPA, and the preliminary utility of a logopenic PPA classification.

## Friday, February 5: Breakfast CE Workshops (1.5-Hour)

### February 5, 7:20 AM-8:50 AM



#### **CE 10: Mild Traumatic Brain Injury and the Postconcussion Syndrome: How Does the Science Translate to Clinical Practice?**

**SALON G**

##### **MICHAEL MCCREA, PHD**

Professor of Neurosurgery and Neurology,  
Director of Brain Injury Research,  
Medical College of Wisconsin  
Research Neuropsychologist,  
Clement Zablocki VA Medical Center  
Milwaukee, Wisconsin, USA



##### **GRANT L. IVERSON, PHD**

Professor, Department of Physical Medicine &  
Rehabilitation, Harvard Medical School  
Director, Sports Concussion Program,  
MassGeneral Hospital for Children  
Associate Director, Traumatic Brain  
Injury, Red Sox Foundation and

Massachusetts General Hospital Home Base Program  
Boston, Massachusetts, USA

#### **Abstract**

The diagnosis and treatment of mild traumatic brain injury (mTBI) have historically been hampered by an incomplete base of scientific evidence to guide clinicians. Major advances in the basic and clinical science of mTBI over the past decade have increased our understanding of the natural history of injury and recovery in civilians, athletes, and military service members affected by mTBI. As a result, we have a more clear understanding of how acute injury characteristics and comorbidities affect recovery and outcome. Collectively, the new evidence base now establishes a foundation on which to build integrative approaches to injury assessment and treatment. This workshop will provide a focused review of the current scientific literature on mTBI and discuss clinical translation designed to improve outcome and reduce disability associated with this injury.

## Saturday, February 6: Breakfast CE Workshops (1.5-Hour)

### February 6, 7:20 AM-8:50 AM



#### **CE 11: War and the Brain: Neuropsychological Alterations Among Returning Veterans**

**SALON F**

##### **JENNIFER J. VASTERLING, PHD**

Chief of Psychology,  
VA Boston Healthcare System  
Professor of Psychiatry,  
Boston University  
School of Medicine  
Boston, Massachusetts, USA

#### **Abstract**

Complaints of neurocognitive impairment have emerged after almost every major war-zone deployment in recent history. While contextualizing recent war-zone participation within this historical context, this course will focus on neurocognitive alterations among veterans of the wars in Iraq and Afghanistan. Often referred to as the "signature wounds" of contemporary military conflicts, the course will cover two primary risk factors for neurocognitive alterations in returning veterans: traumatic brain injury (TBI) and psychological stress. The course will review the literature on neuropsychological consequences of deployment TBI, especially focusing on mild TBI, the neuropsychological consequences of stress-related mental disorders, especially focusing on posttraumatic stress disorder (PTSD), and potential interactions between deployment TBI and PTSD.

### February 6, 7:20 AM-8:50 AM



#### **CE 12: Introduction to Ethics in the Mind- and Neuro-Sciences (Neuroethics)**

**SALON G**

##### **ERIC RACINE, PHD, PHD**

Director, Neuroethics Research Unit;  
Associate Research Professor;  
Associate Director, Academic Affairs;  
Institut de recherches cliniques de Montréal (IRCM)  
Associate Research Professor, Department of Medicine and  
Department of Social and Preventive Medicine (Bioethics  
Programs), Faculty of Medicine, Université de Montréal  
Adjunct Professor, Department of  
Neurology and Neurosurgery;  
Associate/Affiliate Member, Division of Experimental  
Medicine/Biomedical Ethics Unit, Faculty of Medicine;  
McGill University

#### **Abstract**

With advances in the behavioural and brain sciences, a new field of ethics, "neuroethics", has emerged as an interdisciplinary response to important ethical dilemmas associated with research, health care delivery, and health policy. The field also attempts to capture insights from neuroscience to inform how we view ethics. This workshop will introduce to the history and development of neuroethics. Then, three examples of clinical practices and related research areas where the speaker has been active will be summarized and discussed with participants: (1) the use of deep brain stimulation in Parkinson's disease and in neuropsychiatric conditions; (2) the use of fMRI in disorders of consciousness; and (3) the ethical challenges associated with the use of cognitive enhancers. The final part of the workshop will focus on how psychologists can further contribute to the development of neuroethics.

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## Program Planners

### **Rosemary Fama** Boston Program Chair, INS

No relevant financial or nonfinancial relationships exist.

### **Raul Gonzalez** Director of Continuing Education, INS

No relevant financial or nonfinancial relationships exist.

## Instructional Personnel

### **Rhoda Au** CE Workshop 5

Relevant financial relationship(s): Professor Au has a financial relationship with Digital Cognition Technologies, in which she has an ownership interest as a founding member.  
Relevant non-financial relationship(s): None.

### **Peter A. Bandettini** CE Workshop 1 and Plenary Session B

Relevant financial relationship(s): Dr. Bandettini receives honoraria for his role as Editor in Chief for the publication *NeuroImage*.  
Relevant non-financial relationship(s): None.

### **Sarah-Jayne Blakemore** Plenary Session D

No relevant financial or nonfinancial relationships exist.

### **Michael J. Boivin** CE Workshop 3

No relevant financial or nonfinancial relationships exist.

### **Mark Bondi** CE Workshop 8

No relevant financial or nonfinancial relationships exist.

### **Adele Diamond** Plenary Session F

No relevant financial or nonfinancial relationships exist.

### **Brad Dickerson** Plenary Session A

Relevant financial relationship(s): Professor Dickerson has received compensation in the form of consulting fees from Forum, Isis Pharmaceuticals, Haymarket Media, and Med Learning Group. He has also received compensation from Merck for his role as a consultant and Data Safety Monitoring Board member. He also receives royalties from Oxford University Press for his contribution as a book author.  
Relevant non-financial relationship(s): None.

### **Andrew Gelman** Plenary Session E

No relevant financial or nonfinancial relationships exist.

### **Bruno Giordani** CE Workshop 3

No relevant financial or nonfinancial relationships exist.

### **Grant L. Iverson** CE Workshop 10

Please see the addendum (information not available at time of printing).

### **Melissa Lamar** CE Workshop 2

Relevant financial relationship(s): Professor Lamar receives K01 grant support from the National Institutes of Health (NIH).  
Relevant non-financial relationship(s): None.

### **Scott Langenecker** CE Workshop 6

No relevant financial or nonfinancial relationships exist.

### **Michael McCrea** CE Workshop 10

No relevant financial or nonfinancial relationships exist.

### **Alvaro Pascual-Leone** CE Workshop 4 and Plenary Session C

Relevant financial relationship(s): Dr. Pascual-Leone receives financial support as a scientific advisory board member for Magstim, Axilium Robotics, Neuroelectronics, Neosync, and Starlab Neuroscience. He is also supported by grants from Neuronix and Nexstim and for his role as a scientific advisory board member.  
Relevant non-financial relationship(s): None.

### **Eric Racine** CE Workshop 12

No relevant financial or nonfinancial relationships exist.

### **Katya Rascovsky** CE Workshop 9

No relevant financial or nonfinancial relationships exist.

### **Maria T. Schultheis** CE Workshop 2

No relevant financial or nonfinancial relationships exist.

### **Jennifer J. Vasterling** CE Workshop 11

No relevant financial or nonfinancial relationships exist.

### **Ann D. Watts** Plenary Session G

No relevant financial or nonfinancial relationships exist.

### **Roberta White** CE Workshop 7

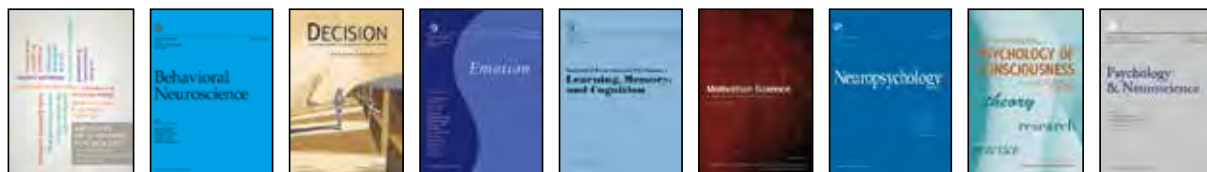
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# Submitting Author Disclosures & Changes the Final Program

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## Changes to the Final Program Posted On-Site

Sessions and room locations listed in Section II of this book are preliminary and may have changed since the time of printing based on enrollment or other factors. Please check on-site materials and signage in Boston, or in the INS 2016 meeting app, for final room assignments.

**Please see on-site materials in Boston for changes to the Final Program.**

## Final Addendum of Author Changes

A list of important author changes that have occurred since the time of printing will be available on-site. The published meeting proceedings will include an addendum with all author changes that occurred after finalization, including author additions and other minor adjustments.

# **Section 2**

## **FINAL PROGRAM**





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# Final Program

## Forty Fourth Annual Meeting

### International Neuropsychological Society

February 3-6, 2016  
Boston, Massachusetts, USA

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#### WEDNESDAY, FEBRUARY 3, 2016

9:00 AM–12:00 PM

**CE 1. Functional MRI: The History, Basics, Cutting Edge, and Future**  
**Presenter: Peter A. Bandettini**  
**Salon F**

1. BANDETTINI, PA

Functional MRI: The History, Basics, Cutting Edge, and Future

9:00 AM–12:00 PM

**CE 2. Science and Practice Considerations for Bilingual Neuropsychology: A Focus on the Hispanic/Latino Community**  
**Presenters: Melissa Lamar, Maria T. Schultheis**  
**Salon G**

1. LAMAR, M

Science and Practice Considerations for Bilingual Neuropsychology: A Focus on the Hispanic/Latino Community

9:00 AM–12:00 PM

**CE 3. Advancing Developmental Science Through the Application of Pediatric Neuropsychology in Africa**  
**Presenters: Michael J. Boivin, Bruno Giordani**  
**Back Bay (Dartmouth-Fairfield)**

1. BOIVIN, MJ

Advancing Developmental Science Through the Application of Pediatric Neuropsychology in Africa

12:00–3:00 PM

**INS Student Liaison Committee Workshop: Social Competence in Pediatric Neurological Disease & Injury**  
**Presenters: Miriam H. Beauchamp, Keith O. Yeates**  
**Salon HIJK**

1:00–4:00 PM

**CE 4. Characterizing and Guiding Brain Plasticity Across the Lifespan**  
**Presenter: Alvaro Pascual-Leone**  
**Salon F**

1. PASCUAL-LEONE, A

Characterizing and Guiding Brain Plasticity Across the Lifespan

1:00–4:00 PM

**CE 5. Cognitive Aging in the Digital Era: Role of Global Partnerships**  
**Presenter: Rhoda Au**  
**Salon G**

1. AU, R

Cognitive Aging in the Digital Era: Role of Global Partnerships

**1:00–4:00 PM****CE 6. Dynamic Considerations in Neuropsychological Assessment of Depressive Disorders: State, Trait, Scar and Burden****Presenter: Scott A. Langenecker  
Back Bay (Dartmouth-Fairfield)**

1. LANGENECKER, SA

Dynamic Considerations in Neuropsychological Assessment of Depressive Disorders: State, Trait, Scar and Burden

**3:00–4:15 PM****Poster Session 1. Behavioral Neurology, Electrophysiology/EEG, Epilepsy, and Memory  
Gloucester Hall****Behavioral Neurology/Cerebral Lateralization/Callosal Studies**

1. ALIOTO, A

White Matter Integrity of the Corpus Callosum Mediates the Relationship Between Cardiorespiratory

2. BURNETT, KA

Fitness and Processing Speed in a Population of Cognitively Normal Older Adults

3. HA, J

Inflexible Social Norm Perception in Agenesis of the Corpus Callosum

4. HEILMAN, KM

Verbal Problem Solving in Individuals with Agenesis of the Corpus Callosum

5. HOLLAND, AK

Callosal Ideomotor Apraxia in Alzheimer's Disease

Reductions in Design Fluency and Cardiovascular Regulation Vary Selectively as a Function of Trait Hostility Level

6. MILLER, JS

Adaptive Skills in High-Functioning Adults with ACC and ASD

7. MOES, P

Left Happy Female, Right Angry Male: Hemisphere Differences in the Perception of Gender and Emotion

8. OSWALD, K

Variability in Bimanual Coordination Dependent on Strength of Hand Dominance

9. RENTERIA-VAZQUEZ, TA

Social Inferences from Animated Interacting Triangles in Agenesis of the Corpus Callosum: Labeled Topic Modeling

10. VAILLANCOURT, AA

Personality Characteristics of Individuals with Agenesis of the Corpus Callosum

**Electrophysiology/EEG/ERP**

11. CLUNIES-ROSS, KL

Hemispheric Differences in Tb Responses to Tone-pairs with Short and Long Interstimulus Intervals in Children

12. DUGGAN, EC

Inhibitory Control in Bilinguals with and without Musical Training- A Pilot Study

13. EGETO, P

Behavioural and EEG Indices of Conflict Monitoring

14. EULER, M

Distinct Effects of Neural Activation and Consistency in Novelty Processing and Relations with IQ

15. HAUGER, SL

Counting Own Name -Clinical Robustness of Electrophysiology in Assessing Residual Cognition in Disorders of Consciousness

16. HERRERA, S

Analysis of Contrast Processing Deficits in Schizophrenia and Schizoaffective Disorder Using

17. MANGAL, P

Electrophysiological and Psychophysical Measures

Intentional Enhancement Of Electrocortical Responses To Emotional Pictures By Parkinson Patients: Relation To Executive Function

18. MOORE, WR

Neurophysiological Marker of Attention Switching Advantages in Bilinguals: A Pilot Study

19. NUNEZ, V

A Neurophysiological Marker of Inhibition in Bilinguals: A Pilot Study

20. OSWALD, V

Fronto-Parietal and slow oscillations correlate with working memory performance: resting state MEG study

21. STEFANATOS, C

Electrophysiological Signature of Selective Auditory Attention

22. STEFFEN-ALLEN, F

Modulation of Neural Oscillation as a Function of Time During Successful Working Memory Performance In Schizophrenia

23. STOLZ, E

Ketamine Induced Neurophysiological and Neurochemical Changes in Healthy Controls: A Translational Model Using Simultaneous Imaging Modalities

**Epilepsy/Seizures**

24. BARRETT, LE

Age of Diagnosis Impacts Lateralization Profile in Pediatric Focal Epilepsy

25. BREWSTER, RC

White Matter Correlates of Verbal Memory Explored with DTI in Temporal Lobe Epilepsy

26. DEKHTYAR, M

Aicardi Syndrome: A Case Report of a Well Developing 15 Year Old

27. FACELLA-ERVOLINI, J

Functional Significance of Hippocampal Abnormalities in Pediatric Focal Epilepsy

28. FERNANDO, H

Medication and Executive Function in Temporal Lobe Epilepsy

29. FISCHER, M

Everyday Working Memory Function in Temporal Lobe Epilepsy

30. GRANADER, Y

Parent-Reported Comorbidities in Youth with ASD and Epilepsy without Intellectual Disability

31. HARP, JP

Neuropsychological Differential Diagnosis of Posterior Periventricular Nodular Heterotopia: A Case Study

32. HERMANS, E

Memory and fMRI Activation in Temporal Lobe Epilepsy: Towards Predicting Surgery Outcome

33. HINNEBUSCH, A

Symptoms of Inattention and Hyperactivity/Impulsivity in Pediatric Epilepsy

34. JACOB, SN

Memory and Coping in Patients with Epilepsy

35. KAVANAUGH, BC

Distinct Patterns of Younger versus Older Seizure Onset in Individuals with Autism Spectrum Disorders

36. KAVANAUGH, BC Differential Relationship between Depression and White Matter Integrity in Adult versus Child Onset Temporal Lobe Epilepsy
  37. KIERSTEAD, S Female Protective Effects for Social Impairment in Autism and Epilepsy
  38. LEVAN, A The Relationship between Executive Functioning and Social Skills in Children with Epilepsy
  39. LIN, G Multidisciplinary Evaluation of "Subclinical Seizures" in Pediatric Parietal Lobe Epilepsy: The Value of Neuropsychological Evaluation
  40. LIPPÉ, S Putamen Volume Predicts Working Memory Performance in Children with BECTS
  41. MACALLISTER, WS The Utility of the WISC-V in Child and Adolescent Epilepsy
  42. MAHONEY, EJ The Relationship between Perceived and Objective Cognitive Change Following Temporal Lobectomy
  43. MAIMAN, M Inter-rater Reliability of the Parent versus Teacher Forms of the Behavior Rating Inventory of Executive Function in Children and Adolescence with Epilepsy
  44. MARTIN, A The Influence of Executive Function on Memory and Learning in Pediatric Focal Epilepsy
  45. MULLANE, AA Patients with Memory Retrieval Difficulties are at Risk for Objective and Subjective Memory Declines Following Left Temporal Resection for Epilepsy
  46. NOBLE, SM Preliminary Validation of a Novel Method of Presurgical fMRI Language Localization through Functional Connectivity Analysis
  47. PELLETIER, CL RBANS Embedded Effort Measures in Adults with Focal Epilepsy
  48. POWELL, S The Relations Between Performance-Based Measures of Executive Dysfunction and Teacher-Reported Executive Dysfunction in Children with Epilepsy
  49. REY, GJ Verbal Memory Assessment of Spanish-Speaking Patients with Temporal Lobe Epilepsy
  50. REYES, A The Fractional Amplitude of Low-frequency Fluctuation on Resting State fMRI Differentiates Temporal Lobe Epilepsy with and without Mesial Temporal Sclerosis
  51. ROTH, RM Self-Rated Executive Dysfunction in Adults with Focal Epilepsy
  52. RUM, R Seizure Remission Status Following Surgery for Localization-related Epilepsy Associated with Differences in Postoperative WAIS-IV Performances
  53. RUM, RS Impact of seizure remission status and neuropsychological functioning on quality of life among postoperative epilepsy patients
  54. SALEH, MI The Utility of Neuropsychology in Predicting Functional Reorganization in Presurgical Pediatric Epilepsy Cases
  55. SCHRAEGLE, WA Pattern of Memory Performance in Children with Frontal or Temporal Lobe Epilepsy
  56. SHIELDS, B The Relation between Executive Functioning and Psychological Disturbance in Youth with Pediatric Generalized Epilepsy
  57. SOMBOON, T Lateralizing Value of Memory Function Test (Translated) in Thai Patient with Temporal Lobe Epilepsy due to Hippocampal Sclerosis
  58. STEFANATOS, AK Neurocognitive Sequelae of Frontal and Temporal Lobe Epilepsy in Children: Support for Network Impairment
  59. BERL, M Survey Results of Neuropsychological Evaluation in Presurgical Pediatric Epilepsy
- Memory Functions**
60. BERL, M Profiles of Memory and Learning of the CVLT-C using Graph Theory
  61. ANDERSON, DM Assessing the Relationship Between Episodic Memory and the Volume of the Hippocampus in Young Children Born Prematurely
  62. ANDERSON, JR Effects of Sleep Quality and Glucoregulation on Sustained Attention, Working Memory, and Inhibitory Control in Healthy Young Adults
  63. ÁVILA, R Working Memory Mediates the Relationship Between Aging and Memory Performance in Older Adults with Heterogeneous Cognitive Background
  64. BAIN, KM Longitudinal Assessment of Verbal Learning in Patients with Psychotic Disorders
  65. DHIMA, K Processing Speed as a Predictor of Memory Performance in Multiple Sclerosis, Parkinson's Disease, and Alzheimer's Disease
  66. FEINBERG, JH Visual Memory Errors and Language Functioning: A Factorial Analysis of BVRT Memory Errors, WAIS-III, and MAE Subtests
  67. GRAVES, L Recognition Discriminability in Huntington's and Alzheimer's Disease
  68. HIZEL, L Contribution of Organization to ROCF Recall in Idiopathic Parkinson's Disease Beyond Processing Speed and Motor Abilities
  69. KELLOGG, EJ Associations Among a Task of Prospective Memory, Executive Functions, and Impulsivity within a Non-Clinical Sample
  70. KORTHAUER, LE Contributions of Executive Functioning to Spatial Navigation Performance
  71. LARSON, SW How does having Comorbid ADHD affect Memory Deficits in Children with Reading Disorders?
  72. MARKOWSKI, S Greater Neuroticism Predicts Higher Performance in Immediate Memory, Language, and Attention in Healthy Individuals
  73. MUNRO, CE Mapping the Metabolic Correlates of Subjective Memory Concerns in Cognitively Normal Elderly Individuals
  74. NATION, DA Cognitive Effects of High Altitude Exposure in Military Pilots and Aircrew
  75. NOVITSKI, J Relationship between Contextual Recall and Semantic Fluency Performance in Healthy Older Adults and Mild Cognitive Impairment
  76. QUINN, C Association of motor function and cognitive performance in a sample of older adults with and without Parkinson's disease

77. RASKIN, S Psychometric Properties of the Memory for Intentions Test-Short Form  
 78. RASKIN, S Use of Electrophysiological and Clinical Measures of Prospective Memory in individuals with Mild and Severe Brain Injury  
 79. TALBOT, KS Investigating General Time-Based Prospective Memory in Children Using a Novel Naturalistic Paradigm  
 80. TEAFORD, MA Convergent Validity of the Poreh Nonverbal Memory Test
- HIV/AIDS/Infectious Disease**
81. GAMEZ, M Composite Scores Increase Detection of Neurocognitive Impairment in the HIV-Positive Native Spanish-Speaking Older Adult: A Pilot Study  
 82. SARNO, M Neuropsychological Profile of HIV-positive Spanish-speaking Hispanic Older Adults

**3:00–4:15 PM**

**Poster Symposium 1. Predicting Postsurgical Outcome Using Neuroimaging Markers in Temporal Lobe Epilepsy**  
**Organizer: Karol Osipowicz**  
**Gloucester Exhibit Hall**

**Epilepsy/Seizures**

83. OSIPOWICZ, K Predicting postsurgical outcome using Neuroimaging Markers in Temporal Lobe Epilepsy  
 84. TRACY, JI Frontal Gray Matter Abnormalities Predict Seizure Outcome in Refractory Temporal lobe Epilepsy Patients  
 85. TRACY, JI Pre-Surgery Resting-State local Graph-Theory measures predict Neurocognitive Outcomes after Brain Surgery in Temporal Lobe Epilepsy  
 86. OSIPOWICZ, K fMRI, Resting State, and DTI Predict Verbal Fluency Outcome Following Resective Surgery for Temporal Lobe Epilepsy

**4:15–4:30 PM**

**Program Welcome**  
**Program Chair: Rosemary Fama**  
**Salon ABCDE**

**4:30–5:30 PM**

**Plenary A. The Human Brain Connectome and Cognitive and Affective Function: Normal Individual Variability, Aging, and Neurodegeneration**  
**Presenter: Brad Dickerson**  
**Salon ABCDE**

1. DICKERSON, B The Human Brain Connectome and Cognitive and Affective Function: Normal Individual Variability, Aging, and Neurodegeneration

**5:30–6:30 PM**

**INS Awards Ceremony**  
**Salon ABCDE**

**6:30–7:30 PM**

**Welcome Reception**  
**3rd Floor Atrium & Lounge**

**THURSDAY, FEBRUARY 4, 2016****7:20–8:50 AM**

**CE 7. Chemical Exposures and the Nervous System: Clinical Findings and Research Evidence**  
**Presenter: Roberta F. White**  
**Salon F**

1. WHITE, RF Chemical Exposures and the Nervous System: Clinical Findings and Research Evidence

**7:20–8:50 AM**

**CE 8. Mild Cognitive Impairment and Preclinical Alzheimer's Disease: Concepts in Need of Input from Neuropsychology**  
**Presenter: Mark W. Bondi**  
**Salon G**

1. BONDI, MW Mild Cognitive Impairment and Preclinical Alzheimer's Disease: Concepts in Need of Input from Neuropsychology



**9:00–10:30 AM****Poster Session 2. ABI (Child), ADHD/Attention, Autism, and Learning Disabilities/Academic Skills  
Gloucester Hall****Acquired Brain Injury (TBI/Cerebrovascular Injury & Disease - Child)**

1. ARES, K Homeless Youths' Self-Reported Executive Functioning as Mediated by Traumatic Brain Injury Severity
  2. BOSENBARK, DD Attention and Executive Functioning Profiles in Children Following Perinatal Arterial Ischemic Stroke
  3. BOSENBARK, DD Relationship Between Performance Testing and Parent Report of Attention and Executive Functioning Profiles in Children Following Perinatal Arterial Ischemic Stroke
  4. BOUTZOUKAS, EM Efficacy of Amantadine Treatment During the First Week Following Sports-Related Concussion
  5. SADY, MD Relationship between School Concussion Policy and Symptoms, Self-Efficacy, and Supports
  6. BURNS, AR Ratings in cognitive exertion differ across neuropsychological measures following a concussion
  7. BURNS, AR Reliability and validity of the Progressive Activities of Controlled Exertion- Self Efficacy (PACE-SE) scale: A novel measure assessing children's self-efficacy following a concussion
  8. CHIU, P Training-related Changes in Counting Stroop task Activation in Pediatric Traumatic Brain Injuries (TBI): an fMRI study
  9. COLLIER, S The Association between Change in Post-Concussion Symptoms and Self-Efficacy over Recovery from Concussion
  10. CROCFER, K Patterns of Performance on Neuropsychological Assessment in Pediatric TBI and Control Samples
  11. EPSTEIN, GB Concussion-Related Cognitive Exertion Ratings in Uninjured High School Athletes
  12. GHILAIN, C Pediatric ImPACT: Detecting Age and Gender Based Differences of Baseline Functioning
  13. GOODRICH-HUNSAKER, NJ Altered Corpus Callosum Integrity in Children with Mild Traumatic Brain Injury (mTBI)
  14. GRETENCORD, AA Self-Report of Symptoms in Sports-Related Concussions
  15. HEINKS, T The Influence of Age at Diagnosis for Cognitive Performance in Pediatric Brain Tumor Patients Before Treatment
  16. KOEHL, LM Validating Neurocognitive Measures in an Adolescent Sports Concussion Sample: ImPACT Computerized Testing versus Traditional Neuropsychological Measures
  17. LAFLEUR, J Attention Networks in Children with early Traumatic Brain Injuries
  18. MAXWELL, EC Impact of Counselor-Assisted Problem Solving on Parental Coping in Families of Children with Traumatic Brain Injury
  19. MIETCHEN, JJ Frontal Volumetrics and Social Functioning in Children following Traumatic Brain Injury
  20. MONAHAN, KA Feasibility and Acceptability of a Brain Injury Education Program on a Pediatric Inpatient Rehabilitation Unit
  21. PLOURDE, V ADHD symptoms predict quality of life following pediatric moderate-to-severe traumatic brain injury
  22. ROSENTHAL, SL Subconcussive Related Changes in High School Football Player Reaction Time
  23. SANDEL, N Deficits in Memory and Processing Speed following Acute Sports Concussion
  24. TREBLE-BARNA, A Profile Analysis of Long-Term Neuropsychological Functioning following Traumatic Brain Injury in Early Childhood
  25. VARGAS, G Child Versus Parent Reported Recovery Post-concussion: Differences and Correlates
  26. VAUGHAN, CG Examining a 3 Subtest Format of the Tasks of Executive Control (TEC) in a Concussed and Non-concussed Sample
  27. WILDE, EA Relation of DTI with Reading and Language Skills in Pediatric TBI
  28. WOJTOWICZ, M Comparing Baseline Concussion Measures in High School Student Athletes
  29. WOJTOWICZ, M Pre-season Concussion Testing in High School Students with Academic Difficulties or Attention Deficit Hyperactivity Disorder
  30. CHAMBERS, AM Problems with Executive Planning are Associated with Social Withdrawal in Adolescent Traumatic Brain Injury
  31. COOK, NE Processing speed in pediatric head injury: Examining the impact of psychiatric and learning comorbidities
- ADHD/Attentional Functions**
32. CHAMBERS, AM Sustained Attention Moderates the Relationship between Sleep Schedule Variability and Verbal Memory in Children with ADHD
  33. COOK, NE Do sluggish cognitive tempo and slow processing speed represent the same construct? Evidence for differentiation of functional correlates in children and adolescents with ADHD
  34. ARENTSEN, TJ The ADHD Symptom Questionnaire (ASQ): Pilot Study on a DSM-5 Specific, Self-Report Questionnaire with Embedded Validity Items
  35. BALDWIN, F Goodbye to the Processing Speed Deficit? Performance of Clinically-referred Children with and without ADHD on the WISC-V
  36. BEEBE, DW fMRI Correlates of Diminished Sustained Attention among Sleep-Restricted Adolescents
  37. BORSCHUK, AP The Influence of Comorbid Asthma on the Severity of Symptoms in Children with Attention Deficit Hyperactivity Disorder
  38. CAIRNCROSS, M The Efficacy of Mindfulness-Based Therapies for Attention-Deficit/Hyperactivity Disorder: A Meta-analytic Review

39. DYKSTRA, JB Self-Handicapping Strategies in Emerging Adults Concerned about ADHD
  40. HALE, JB Research Domain Criteria for Deciphering ADHD Executive Heterogeneity
  41. KANDASAMY, A Eye-Tracking as a Behavioural Measure of Impulsivity
  42. KIM, J Attention-Deficit/Hyperactivity Disorder (ADHD) in Adults: Neuropsychological Referrals in an Academic Medical Center
  43. LARSON, JC Can a 75-Second Motor Persistence Test Predict ADHD in School-Aged Children?
  44. LEE, EY Self-Reported Impulsivity and Self-Regulation in Relation to ADHD and Executive Function Tasks
  45. LIEBEL, SW ADHD Symptoms among College Students: Cross-Informant Agreement, Intra-Informant Agreement and Relationships with Neuropsychological Functioning
  46. LIEBEL, SW Auditory and Visual Working Memory in College Students with ADHD
  47. MAZZOLA, KS The Effect of Comorbid Depression in Adult ADHD on the CAARS
  48. OSWALD, K Working Memory Assessment and Symptoms of Attention Deficit Hyperactivity Disorder in Children
  49. PIEVSKY, MA The Use of Neuropsychological Measures in ADHD Diagnosis
  50. PINJALA, M Component Structure of Multiple Tests of Attention in a Mixed Clinical Child Sample
  51. RECIO, RC Effects of One Neurofeedback Session on Verbal and Visuospatial Search
  52. TABAQUIM, MM Child attentional functions with Cleft Lip and Palate
  53. THOMASON, MM Concentration Deficit Disorder: Prevalence, Associated Impairment, and Comorbidities in a Population-Based Sample
  54. UDHNANI, MD Not All Visual Memory Tasks Are Created Equal: Sustained Attention May Explain Pediatric Performance Differences
  55. VAN MEURS, B Processing Speed, Attention and Executive Functioning in ADHD with and without Co-morbid Anxiety
  56. VAN PATTEN, R The Effect of Premorbid Attention-Deficit/Hyperactivity Disorder on Neuropsychological Functioning in Individuals with Acute Mild Traumatic Brain Injuries
  57. WEIGARD, A A Model-Based Assessment of Slow vs. Variable Information Processing in ADHD
  58. FRIED, R Clinical Correlates of Working Memory Deficits in Youth with and without ADHD: A Controlled Study
- Autism Spectrum Disorders**
59. FRIED, R Examining Driving Behavior in Young Adults with High Functioning Autism Spectrum Disorders (HF-ASD): A Pilot Study Using a Driving Simulation Paradigm
  60. FRIED, R Neuropsychological Correlates of Autism Spectrum Disorders: A Controlled Study of Adults with High Functioning ASD
  61. BEN-AVI, E Elevated White Matter Abnormalities in Females with Autism Spectrum Disorder
  62. BONEBAKKER, A Autism spectrum disorders in dual-diagnosis patients
  63. BRADBURY, KR Birth Order Impacts Psychometrics on M-CHAT-R with Follow-up Phone Interview (M-CHAT-R/F)
  64. CABILES, PA Is Emotional Processing a Predictor of Traits of Autism Among University Students?
  65. CARLEW, AR A Virtual Classroom Continuous Performance Task for Assessing Persons with Autism
  66. CLAWSON, A Conflict Adaptation in Autism Spectrum Disorder: A Family Study
  67. CORDEAUX, C Profiles of Children Missed at Initial Autism Screening Compared to Early-Identified Peers
  68. DOLAN, B Examining PEERS for Young Adults: Improvements in Social Motivation and Relations to Neural Activity
  69. ELOI, JM The Contribution of Intelligence, Empathy and Personality Traits to Adaptive Living Skills in Individuals with Autism Spectrum Disorder
  70. FATOORECHI, S Atypical Cerebral Lateralization for Handedness in Autism Spectrum Disorder
  71. FLORES, A Relationship Between Neural Coherence and Social Inference and Prediction in Autism Spectrum Disorder
  72. GRIFFIN, JW Moderation Analysis of Episodic Memory in Autism Spectrum Disorders: A Meta-Analytic Review
  73. KENWORTHY, L Real-World Executive Functions in Adults with Autism Spectrum Disorder: Profiles of Impairment and Associations with Adaptive Functioning and Co-morbid Anxiety and Depression
  74. LAJINESS-O'NEILL, R Altered P3 Neuromagnetic Evoked Response Related to Language Functioning in Children with Autism Spectrum Disorder
  75. LEE, C Poor Motor Functions Relate to Visuomotor Adaptation in Children with Autism Spectrum Disorders
  76. MOULTON, E Cognitive and Language Functioning of Children Who Lose Their ASD Diagnosis
  77. NADER, A An increased role of perception in learning for autistic children
  78. PAWLUK, L Initiation of Joint Attention (IJA) and Executive Functioning in School-Aged Children with Autism Spectrum Disorder (ASD) and Attention Deficit Hyperactivity Disorder (ADHD)
  79. RICHARD, AE Neural Synchrony during Visual Attention Shifting in Autism Spectrum Disorders
  80. STRANG, J The Flexibility Scale: A Parent-Report Inventory of Flexibility Skills in Children With Autism Spectrum Disorders Without ID
  81. VERBALIS, AD Experience of Parent Burden from Cognitive Inflexibility in ASD for Poor and Rich Communities
- Learning Disabilities/Academic Skills**
82. CHILD, A A Cognitive Dimensional Approach to MD, RD, ADHD Comorbidity
  83. ELIAS, J Contributions of Executive Functions, Math Anxiety, and Parental Expectations toward Math Achievement

84. FRITZ, C Exploratory Factor Analyses of Neurocognitive and Reading-Related Factors in Struggling Readers At Different Ages
85. HASLER, HM Moved to Learn: Movement Abilities Correlate with Cognition in Preschoolers Born Very Preterm
86. MARCHAND, M Simple and Complex Motor Coordination Abilities in Children with Dyslexia and/or Attention Deficit Disorder
87. MENGHINI, D Reading Improvement Following tDCS and Cognitive Treatment in Children and Adolescents with Dyslexia
88. PAO, LS Rapid Automatized Naming Speed Predicts Reading Comprehension in Impaired and Typical Readers
89. RIGGALL, E Implicit Sequence Learning and Memory and Phonological Awareness in Developmental Dyslexia and Specific Language Impairment
90. WESONGA, EM Age Moderates the Predictive Utility of Spatial Working Memory for Mathematical Achievement
91. WINTER, R The Relationship between Phonological Short-Term Memory, Working Memory, and Changes in Reading Scores in Children with Dyslexia
92. WISEHEART, R How Derivational Morphology Intervention Improves Reading in Adult English Language Learners
- Drug/Toxin-Related Disorders (Including Alcoholism)**
93. WILSON, MJ Effects of Sex and Drug Class on Neurocognitive Impulsivity Among Drug Users in Protracted Abstinence
- Genetics/Genetic Disorders**
94. CUKIER, YR The Neuropsychological Profile of a Child with Diamond-Blackfan Anemia and the Impact of Hemoglobin Level on Aspects of Cognition
- Language and Speech Functions/Aphasia**
95. VEGA, M Comparison of Nonverbal Skills in Children with Hearing Loss and Autism Spectrum Disorder

**9:15–10:45 AM****Symposium 1. Malformations of Cortical Development and Cognition****Chair: Karen Blackmon****Salon ABCDE**

1. BLACKMON, K Malformations of Cortical Development and Cognition
2. BLACKMON, K Focal cortical anomalies and neuropsychological phenotypes in 16p11.2 syndrome
3. GALABURDA, AM Do minor cortical anomalies need to look like minor cortical anomalies to produce learning problems? Lessons from rodent studies
4. SCOTT, RC Can early environmental enrichment improve cognitive functions in MCD?
5. KORMAN, B Factors that influence neuropsychological performance in children with FCD-associated intractable epilepsy
6. CHANG, BS Modulation of brain networks in gray matter heterotopia using connectivity-guided transcranial magnetic stimulation

**9:15–10:45 AM****Symposium 2. Neuropsychology and Neuroimaging in Alcohol Use Disorders: A Better Understanding for a Better Treatment****Chair: Anne Lise Pitel****Back Bay (Dartmouth-Fairfield)**

1. PITEL, A Neuropsychology and Neuroimaging in Alcohol Use Disorders: a Better Understanding for a Better Treatment
2. SULLIVAN, EV Brain Structure and Function in Alcohol Use Disorder
3. BEAUNIEUX, H Cognitive Screening for a Better Treatment
4. MAURAGE, P Social Neurosciences in Alcohol-Use Disorders
5. BATES, ME Cognitive Remediation and Different Trajectories of Cognitive Recovery in Persons with Alcohol Use Disorders

**9:15–10:45 AM****Paper Session 1. Acquired Brain Injury (ABI), Adult****Moderator: Eli Vakil****Salon F**

1. JOHNSON, EM Long-Term Effects of Traumatic Brain Injury in the Framingham Study
2. BIEKMAN, B Early and Late Neurodegenerative Changes in White Matter Integrity following TBI
3. KRCH, D The Sagittal Stratum as a Candidate Biomarker for Degree of Neuropathology after Chronic TBI
4. CLARK, AL Links Between Perfusion, White Matter Integrity, and Cognition in Veterans with History of Mild-to-Moderate TBI
5. SANDRY, J Pre-treatment differences in clinical estimates of working memory capacity determine memory rehabilitation efficacy in TBI
6. HILL, BD Utility of Auditory ERPs to Evaluate Linguistic Processing in TBI

**9:15–10:45 AM****Paper Session 2. Medical/Neurological Disorders, Adult**  
**Moderator: Margaret G. O'Connor**  
**Salon G**

1. POSSIN, KL  
Egocentric and Allocentric Working Memory in Premanifest Huntington's Disease: a Double Dissociation with Caudate and Hippocampus Volumes
2. KOPELMAN, M  
Amnesia In An Actor
3. GONZALES, M  
Divergent Influences of Multiple Cardiovascular Risk Factors on Cognition, Grey and White Matter Morphology
4. KESSELS, RP  
The effect of cognitive reserve on vascular cognitive impairment after stroke
5. VILLARD, SN  
Between-Session and Within-Session Intra-Individual Variability in Attention in Aphasia
6. PATERSON, TS  
Self-efficacy Mediates the Relationship Between Traditionally Measured Intelligence, but not Everyday Problem Solving Ability, and Medication Adherence, in Renal Transplant Recipients
7. WALKER, KA  
Low Mean Arterial Pressure in Critically Ill ICU Patients is Associated With Poorer Memory and MMSE at Discharge and Follow-Up

**10:45–11:00 AM****AM Coffee Break**  
**Gloucester Exhibit Hall****11:00 AM–12:00 PM****Plenary B. There's More There: Extracting New Information From the Functional MRI Signal Using Novel Acquisition and Processing Methods**  
**Presenter: Peter A. Bandettini**  
**Salon ABCDE**

1. BANDETTINI, PA  
There's More There: Extracting New Information From the Functional MRI Signal Using Novel Acquisition and Processing Methods

**12:45–2:15 PM****Poster Session 3. Assessment (Adult) and Cognitive Neuroscience**  
**Gloucester Hall****Assessment/Psychometrics/Methods (Adult)**

1. ADLER, MC  
Demoralization and the Metacognitive Index: A MMPI-2-RF and BRIEF-A Study
2. AHN, SS  
Social Desirability and the Relationship between Subjective Ratings on Cognition and Actual Performance
3. AITA, SL  
Revisiting the Biber Cognitive Estimation Test: A Novel IQ-Criterion Based Approach to Scoring
4. ALBUQUERQUE, MR  
Fixation duration predicts performance in the Grooved Pegboard Test: An analysis of two different tasks using the preferred and non-preferred hands
5. ARENTSEN, TJ  
MMPI-2-RF Content Validity Indicators and BDI-II / BAI Responding
6. ASHISH, D  
Wechsler Adult Intelligence Scale-4th Edition (WAIS-IV) Performance in a Mixed Clinical Sample of Monolingual and Bilingual Veterans
7. BABAKHANYAN, I  
NIH Toolbox Emotion Domain: Creation of Census Stratified Normative Data, Summary Scales and Base Rates for Distressed Emotional Functioning
8. BAERRESEN, KM  
Screening for Cognitive Decline in a Veteran Population with the Montreal Cognitive Assessment (MoCA) and the Benson Figure
9. BERNSTEIN, J  
Validity of the King-Devick Test in Post-Acute Concussion and Chronic Partial Sleep Restriction Populations
10. CALAMIA, M  
Self-Reported vs. Informant-Reported Depressive Symptoms in an Outpatient Neuropsychology Clinic Sample
11. CARSTENS, J  
Concurrent Validity of the Goal Management Training Questionnaire – Self in Undergraduates
12. CARTER, KR  
Base Rate Comparison of Failed RBANS Effort Scale and Effort Index in Parkinson's Disease
13. COSTA, MV  
Diagnostic accuracy of GDS-15, PHQ-9 and HAMD-17 in a community sample of elderly with late life depression
14. CRANSTON, CC  
Alternate Form of the Trail Making Test Parts A & B: Preliminary Validation
15. DONDEERS, J  
D-KEFS Color-Word and Verbal Fluency Performance after Traumatic Brain Injury
16. DUNCANSON, H  
Errors versus Speed on the Trail Making Test: Relevance to Driving Safety and Cognitive Impairment
17. EMMERT, NA  
The RBANS Factor Structure in Older Adults with Suspected Cognitive Impairment: Evidence of a 5-Factor Structure
18. ENG, ME  
Verbal and Nonverbal Mediation Strategies of the Boston Naming Test
19. FAUSTO, B  
The utility of neuropsychological tests and measurement of comorbidity in predicting driving competence among memory clinic patients
20. FELLOWS, RP  
Multicomponent Analysis of a Novel Digital Trail Making Task
21. FULLER, JS  
Gender Differences in Item Function on a Common Clock Drawing Test
22. GALUSHA-GLASSCOCK, JM  
Comparison of the Texas Assessment of Processing Speed (TAPS) with Common Neuropsychological Tests among Older Individuals With and Without Cognitive Impairment
23. GASS, CS  
Psychological Variables in WAIS-IV (Intelligence Test) Performance



24. GAVETT, BE Using Item Response Theory to Evaluate and Improve the Ecological Validity of Neuropsychological Tests: An Example of Phishing Susceptibility
25. GONZÁLEZ, DA Auditory and Visual Naming Tests: Psychometric Properties and Performance Patterns among Veterans with and without Cognitive Impairment
26. GONÇALVES, MA WAIS-III's Vocabulary holds as a good measure of pre-morbid functioning after brain injury
27. GURNANI, A Measurement Invariance of the Latent Dementia Phenotype in the ADNI Dataset
28. HOLDNACK, JA Estimating Premorbid Cognitive Functioning Using the NIH Toolbox Oral Reading Test
29. HOLDNACK, JA Multivariate Base Rates for Interpretation of NIH Toolbox Cognition Tests and Application to Individual with TBI and Stroke
30. HOYMAN, LC Preliminary Effects of Heavy Drinking and Age on Cognitive Functioning in Veterans with Posttraumatic Stress Disorder
31. JEFFERSON, AL Psychometric Properties of a Visual Learning and Memory Test: The Biber Figure Learning Test
32. JURICK, SM Examination of cut scores on the validity subscale of the Neurobehavioral Symptom Inventory in Iraq and Afghanistan Veterans with a history of mild to moderate traumatic brain injury
33. KREISEL, CJ Individual Differences in Performance on the Tower of Hanoi and NASA Task Load Index
34. KRIVENKO, A Decomposition of the Trail Making Test in a Clinical Population of Dementia
35. LEITNER, D Assessing the Efficacy of a Cognitive Model on Concurrent Functional Outcome in Acute Stroke Patients
36. LUU, H MMPI-2-RF Validity Scales in Electrical Injury, Mild Traumatic Brain Injury, and Depression
37. MALLECK, M The Brief Estimate of Seconds Test (BEST): A Pilot Study Examining Initial Psychometrics and Norms for a New Chronometric Clinical Test
38. MARSHALL, KK The Role of Executive Functions in Externally-Valid Decision-Making Processes
39. MCAULEY, TL Quantifying the Qualitative Aspects of Affective Word Production on the Emotion Word Fluency Test in Somatic Anxiety
40. MCCABE, D Centralized, Collective, Neuropsychological Databases: Perceived Value and Feasibility
41. MIETCHEN, JJ Factor Structure and Predictive Model of the Rey Auditory Verbal Learning Test
42. MILLER, JB Comparing the Test of Premorbid Functioning with the Wide Range Achievement Test, 4th Ed. Reading Subtest as Estimates of Premorbid Ability
43. MORGAN, KN Can Lumosity Assessment Tools Provide An Accurate Snapshot of Executive Functioning? An Independent Investigation of Test-Retest Reliability and Convergent Validity
44. MULLEN, C Problem Solving in Space: Factors Accounting for Short Category Test Performance
45. OHLHAUSER, L Convergent Validity of the Functional Independence Measure and Common Neuropsychological Tests in a Stroke Population
46. OHLHAUSER, L Glycemic Control and Neuropsychological Test Performance in Adults With Type II Diabetes
47. PAOLILLO, E Utilization of Instruments with Alternate/Parallel Test Forms among Clinical Neuropsychologists in the U.S. and Canada
48. PARANAWITHANA, C Neurocognitive Impairment in First Episode Bipolar Disorder and Schizophrenia
49. PARKER, AF Lesion Localization and Performance on the California Verbal Learning Test-II Following Stroke
50. PATT, VM Characterizing Heterogeneity in Normal Neurocognition
51. PIERS, RJ Displacement of the Minute Hand as a Preclinical Marker of Dementia: Clock Drawing in the Framingham Heart Study
52. PIERS, RJ Percent Intra-Component Think Time: Digital Clock Drawing in the Framingham Heart Study
53. PIERS, RJ Digital Assessment of Speed and Graphomotor Decision Making by Age Group: Framingham Heart Study
54. POLEVOY, A Utility of the RBANS in Detecting Cognitive Impairment in Alcohol Use Disorders: A ROC Study
55. QUASNEY, EE Neurobehavioral Examination Performance and Motor Intrusion Errors in Mild Cognitive Impairment versus Dementia
56. RAAK, J Predicting Variance in Neuropsychological Test Performance from Heart Rate and Anxiety
57. REYNOLDS, M A Significant Threat to Neuropsychological Test Validity
58. ROSEN, A Neuropsychologists' Expectations are High for Poor Cognitive Performance in Recreational Cannabis Users
59. ROSENBLATT, AS Evidence for Clinical Utility of Neuropsychological Data Despite Performance Validity Failures
60. ROWLAND, JA Construct Validity of Auditory Consonant Trigrams
61. ROYE, S Booklet Category Test: Factor Structure and Neuropsychological Correlates in a Mixed Clinical Sample
62. SALINAS, SL Older Patients Who Present With Comorbid Depression and Cognitive Complaints: Why Full Neuropsychological Testing Is Recommended
63. SALMON, R Lexical Characteristics of Emotion Word Fluency Test Responses and Depression in Healthy Young Adults
64. SCHUSTER, AM The Efficacy of Neuropsychological Assessment Composite Scores as a Predictor of Discharge Destination After Stroke
65. SEGAL, E The Clinical Utility of the Boston Naming Test as a Measure of Semantic Memory
66. SEIDENBERG, M The Relationship Between Demographic Variables and Performance on a Newly Developed Remote Memory Test of Famous Name Discrimination
67. SNYDER, AR Confirmatory Factor Analysis on the Immediate Post-Concussion Assessment and Cognitive Testing (ImPACT) at Baseline

68. SORRELL, A Construct Validity of the NIH-Toolbox Cognition Battery Fluid and Crystallized Composite Scores in Cognitively Healthy Older Adults
69. STERN, SK General Unhappiness and Dissatisfaction Impacts Elevations on the Behavior Rating Inventory of Executive Function-Adult: An Emotional, Not Cognitive, Connection
70. TROYANSKAYA, M Choosing Appropriate Control Group Participants in Studies of Veterans: Characteristics of Orthopedically Injured and Uninjured OEF/OIF/OND Veterans
71. TULSKY, DS Confirmatory Factor Analysis of the NIH Toolbox Cognition Battery Among Individuals with Acquired Brain Injury
72. VERMILION, B Can You Hear Me Now? Phonetic and Semantic Analysis of a List-Learning Task
73. WELTON, E A Brief Attention, Memory, and Frontal Abilities Screening Test (AMFAST) for Children and Adults
74. WOLLMAN, SC Order of Test Administration Affects Verbal Fluency Performance
75. ZANE, KL Detecting Insufficient Effort in Persons with Post-Acute Traumatic Brain Injury using the Conners' Continuous Performance Test-II
- Cognitive Neuroscience**
76. ALKOZEI, A Exposure to Blue Wavelength Light Suppresses Anterior Cingulate Cortex Activation in Response to Uncertainty During Anticipation of Negative or Positive Stimuli
77. ALKOZEI, A Exposure to Blue Wavelength Light is Associated with Increased Dorsolateral Prefrontal Cortex Responses During a Working Memory Task
78. ASSAR, N The Effect of Self-Criticism on Working Memory Performance Following Success and Failure
79. AZAR, M Awareness of Cognitive Abilities in Individuals with Essential Tremor
80. CARBINE, KA The Effects of Exercise and Time of Day on Inhibitory Control towards High- and Low- Calorie Food Cues
81. COHEN-GILBERT, JE Impact of Acute Alcohol and Nicotine use on Emotional Impulsivity: Associations with Resting State Perfusion in Reward Circuitry
82. CORBO, V Early Life Trauma Impacts the Association between Gray Matter Integrity and Memory in Combat-Exposed Veterans
83. GALINDO, C Effect of Emotional Valenced Stimuli on Working Memory Performance
84. GARCIA, MT Skills of Theory of Mind in Mexican children of 3 to 5 years old
85. HARRISON, CE Identifying the Specific Frontal-Executive and Processing Speed Deficits in Parkinson's Disease
86. ISHIDA, M Perceptual Integration of Locally Time-reversed Speech in Japanese
87. MCCUDDY, WT Cognitive and Cardiovascular Flexibility Relates to Stress Induced Habitual Decision-Making
88. OLIVERA FIGUEROA, LA A Time to be Stressed? Time Perspectives and Cortisol Dynamics Among Healthy Adults
89. PALOMBO, DJ The Effect of Semantic Future Thinking on Temporal Discounting: A Critical Role for the Medial Temporal Lobes
90. REITER, K Cognitive reserve offsets memory decline and the influence of APOE  $\epsilon 4$
91. SMITH, D Development of Cognitive Tests of Cerebellar Function
92. SMITH, R Successful Goal-Directed Memory Suppression is Associated with Increased Inter-Hemispheric Coordination Between Right and Left Fronto-Parietal Control Networks
93. SNEIDER, J Acute Alcohol and Nicotine Effects on Hippocampal-based Memory Performance and Resting State Quantitative Perfusion
94. THAI, M Intermittent Theta Burst Stimulation of the Dorsal Attention Network Cerebellar Node Improves Selective and Sustained Attention
95. WANK, AA Future Thinking About Self Versus Other in Patients With Medial Temporal Lobe Amnesia
96. WATSON, E Neurophysiological Behavioral Inhibition (BIS) and Behavioral Activation (BAS) Systems Are Related to Sleep Quality
97. WEISS, H Exploring the Relationships of Dissociative Experiences, Sleep and Cognition in Undergraduates
- Acquired Brain Injury (TBI/Cerebrovascular Injury & Disease - Adult)**
98. KEENAN, PT Neurobehavioral Symptom Inventory (NSI) Cognitive Items Do Not Predict Cognitive Dysfunction
99. PRILUCK, JL Prolonged Neuropsychological Deficit Following mTBI
100. TROYANSKAYA, M Deployment-Related and Demographic Characteristics as Predictors of Community Integration Following Combat Deployment

**12:45-2:15 PM****Invited Symposium 1. The Contributions of Neuroimaging to Understanding Autism****Chair: Deborah Fein****Discussant: Deborah Fein****Salon ABCDE**

1. FEIN, D The Contributions of Neuroimaging to Understanding Autism
2. SCHULTZ, R MRI Findings from the Collaborative Infant Brain Imaging Study (IBIS)
3. DIMARTINO, A An Emerging Paradigm for Examination of Autism in Early Brain Development
4. MENON, V Functional and Structural Brain Organization in Autism: Linking Physiology and Behavior
5. EIGSTL, I Functional Brain Activation During Language Comprehension in Youth with Verbal Autism Spectrum Disorder (ASD), Typical Development, and Optimal Outcomes from ASD

**12:45–2:15 PM****Symposium 3. Neuropsychology's Role in Preventing, Understanding, and Treating Alcohol and Marijuana Use in Adolescents and Young Adults****Chair: Lindsay M. Squeglia****Discussant: Staci A. Gruber****Salon F**

1. SQUEGLIA, LM
2. SQUEGLIA, LM
3. JACOBUS, J
4. BIDWELL, LC
5. SCHACHT, J

Neuropsychology's Role in Preventing, Understanding, and Treating Alcohol and Marijuana Use in Adolescents and Young Adults  
 Neurocognitive Predictors of Initiating Heavy Alcohol Use during Adolescence  
 The Adolescent Brain Pre- and Post Alcohol and Marijuana Initiation  
 Neuropsychological Correlates of Risk-taking and Substance Use in Emerging Adults  
 Dopaminergic Genetic Effects on the Neural Correlates of Response Inhibition Among Young Adults with Alcohol Use Disorder

**12:45–2:15 PM****Symposium 4. Chaotic Order, Language Connectivity, and a Generalizing Treatment of Aphasia****Chair: Stephen E. Nadeau****Back Bay (Dartmouth-Fairfield)**

1. NADEAU, SE
2. NADEAU, SE
3. BOHSALI, A
4. KENDALL, DL

Chaotic Order, Language Connectivity, and a Generalizing Treatment of Aphasia  
 Language Function Through the Lens of Population Encoding and Parallel Distributed Processing  
 Neural Connectivity Underlying Language Function  
 Phonomotor Therapy: an Intrinsically Generalizing Approach to Aphasia Therapy

**1:00–2:20 PM****Paper Session 3. Aging****Moderator: Benjamin M. Hampstead****Salon G**

1. SHAW, EE
2. MANNING, KJ
3. BERTOLA, L
4. ZAHODNE, LB

The ready brain: Amyloid burden alters the longitudinal relationship of performance to neural responses during task anticipation and execution  
 The Effect of Blood Pressure on Processing Speed and White Matter Microstructure Abnormalities in Healthy Older Adults  
 Sociodemographic and cognitive predictors of memory trajectories across educational groups  
 Racial Disparities in Cognitive Performance across Mid and Late Adulthood: Analyses in Two Cohort Studies

**2:30–3:30 PM****Plenary C. Modulating Brain Networks to Promote Recovery from Brain Injury****Presenter: Alvaro Pascual-Leone****Salon ABCDE**

1. PASCUAL-LEONE, A

Modulating Brain Networks to Promote Recovery from Brain Injury

**3:30–3:45 PM****PM Coffee Break****Gloucester Exhibit Hall****3:30–5:00 PM****Poster Session 4. Assessment (Child), EF/Frontal, and Medical/Neurological Disorders (Child)****Gloucester Hall****Assessment/Psychometrics/Methods (Child)**

1. BEETAR, JT
2. DAVIS, K
3. FEIRSEN, N
4. FERNANDEZ, AL
5. FERNANDEZ, AL
6. GEURTEN, M
7. GREENE, J
8. HAMBERGER, MJ

Comparison of Parent and Teacher Reports of Adaptive Behavior: A Diagnostic Perspective on Special Education Students  
 Development of a Self-Regulation Subscale Using Specific Items From the Behavior Rating Scale of the Bayley Scales of Infant and Toddler Development  
 Relationship Between Executive Function Performance and Collateral Reports in Pediatric Populations  
 Reliability of the Test de Velocidad de Denominación for Early Detection of Dyslexia  
 Normative Data and Influence of Demographic Variables on a Speed Naming Test For Spanish-Speaking Children- The "Test de Velocidad de Denominación"  
 Psychometric properties of the Questionnaire of Executive Self-Awareness (QESA) for Children  
 Behavior Rating Inventory of Executive Function, Second Edition (BRIEF2): Analyzing and Interpreting Ratings from Multiple Raters  
 Auditory and Visual Naming Tests for Children

9. HINDS, DJ Taking the (NIH) Toolbox to Trinidad and Tobago
  10. HUANG, I Functional consequence of cognitive impairment in long-term survivors of childhood acute lymphoblastic leukemia (ALL): the role of cancer symptoms
  11. O'BRIEN, AM Test-Retest Reliability of the ImPACT with a Canadian Sample of Healthy Young Athletes
  12. O'DESKY, I Use of Executive Functioning as a Predictor of ADHD and NLD
  13. OLIVIER, TW Preliminary Examination of WISC-V Indices in a Clinical Sample of Children with Hearing Loss
  14. PRESTON, T A Comparison of Two Prospective Memory Tests in Clinically Referred Children: Influence of Distracter Task
  15. RACH, AM Age-Based Child-SCAT3 and SCAT3 Normative Values Using a Youth Football Population
  16. RENTERIA-VAZQUEZ, TA Reading Skills in a 3 Year-Old Boy Diagnosed With Hyperlexia: Case Report
  17. SCHMID, AD An Examination of WAIS-IV Digit Span Sequencing in a Clinical Sample
  18. SELEME, ME Pilot Study to Assess the Development of Executive Functions in Cuban Preschoolers Using Two Tests Developed in Brazil
  19. SKILLICORN, K Psychometric Equivalence of Online and Paper-and-Pencil Caregiver Behavior Ratings
  20. VASSERMAN, M WISC-V Profiles in Children with ADHD and Learning Disabilities
- Executive Functions/Frontal Lobes**
21. BAILEY, BA The Role of Executive Functioning in Youth Self-Esteem
  22. BAILEY, BA The Role of Parent-Reported vs. Performance-Based Executive Functioning in Youth Academic Achievement
  23. CARLIER, M Assessment of inhibition predetermines the tolerance to physical effort
  24. CLEM, M Parental Ratings of Executive Functioning in Pediatric Survivors of Medulloblastoma and Pilocytic Astrocytoma
  25. CRAUN, E Executive Functioning Moderates the Association Between Parent-Child Relationship and Alcohol Use
  26. CROCFER, K Parent Ratings of Executive Function in Children with a History of Hearing Loss
  27. DOTY, N Executive Dysfunction as a Moderator of the Link Between Depression and Externalizing Behavior in Children and Adolescents
  28. DOYLE, A Extending the "cross-disorder" relevance of executive functions to dimensional neuropsychiatric traits in youth
  29. FEDER, A Working Memory Load Negatively Impacts Moral Acceptability Judgments
  30. FRANCHOW, EI Expressive Suppression in Older Adulthood Differentially Depletes Executive Functioning
  31. GESSNER, C D-KEFS Normative Data from the Nathan Kline Institute – Rockland Sample (NKI-RS) Open-Access Data Resource
  32. GORTER, B The relationship between cognitive inhibition and disinhibited social behaviors in internationally adopted children
  33. HERNANDEZ, K Increased Anxiety Predicts Superior Set-Shifting Performance in Healthy Adolescents
  34. HOLCOMBE, BD Exploring Relationships in Executive Functioning Based on Neurocognitive Performance, Parent Ratings, and Social Support
  35. HOLLAND, AK The Association Between Exposure to a Traumatic Event and Compromised Functional Cerebral Systems in the Left and Right Frontal Lobes
  36. KAYLEGIAN, J The Relationship between Level of Executive Functioning and Engagement in High-Risk Behavior among Urban Homeless Youth
  37. KLIPFEL, K The Relative Contribution of Executive Dysfunction to Psychological, Physical, & Sexual Dating Aggression
  38. LETTERI, A Effortful Control Skills in Deaf Children with and without Additional Disabilities
  39. LØVSTAD, M The utility of the Behavior Rating Inventory of Executive Function across neurological and neuropsychiatric conditions - associations with cognition and emotional distress
  40. MARK, VW Anti-saccade Testing May Reflect Impaired Sustained Attention of Acute Rehabilitation Inpatients
  41. MULHAUSER, K Differential Relationships Among Speeded Neuropsychological Test Performance and Facets of Impulsivity in Individuals with Substance Use Disorder
  42. NIERMEYER, M Motor Sequence Learning in Older Adulthood: Effects of Complexity and Relationships with Executive Functioning
  43. NIXON, KH Is Executive Functioning Related to Resilience in Humanitarian Aid Workers?
  44. OH, Y Longitudinal investigation of memory and executive functioning in internationally adopted children
  45. OKABE, H Sex differences in sustained attention and inhibitory control across the lifespan
  46. PAN, J The Executive Function–Dysexecutive Behavior Connection: Perspectives on the Contributions of Other Neuropsychological Domains
  47. REYNOLDS, B Behavioral Correlates of the WCST in a Neurologically Normal Sample: Perseveration Corresponds with Risky Acts
  48. RIDGE, BE Connecting the Dots: Relating Executive Dysfunction to the Externalizing Spectrum of Psychopathology
  49. RIVERA, A Competing bilingual advantages and disadvantages: Performance on a linguistic Simon task
  50. SARGENIUS, HL An Examination of the Q-Score as a Method for Coding how Morbidly Obese Subjects Copy the Rey-Osterrieth Complex Figure
  51. SHEEHAN, JC A Tale of Two Towers: Investigation of Tower Tasks in Preschool Children
  52. SINGH, P A Voxel Based Morphometric Analysis of Ventromedial Prefrontal Cortex Volume related with Executive Function Task Performance Post Mild Traumatic Injury



53. SULLIVAN, E Assessing the Effect of Trauma and PTSD Symptoms on Executive Functioning in a General Population Sample
  54. SULLIVAN, SK Personality Correlates of Executive Function: The Role of Extraversion
  55. TELLEZ-ALANIS, B Reasoning and Behavioral Rating of Executive Function in Children Aged 11-12 Years
  56. TORRES, S “Touch Your Head Means Touch Your Toes?” Executive Function Deficits In Preterm Children
  57. UMEKUBO, KA Performance Differences on the Iowa Gambling Task in High Versus Low Schizotypy
  58. VANDEN BUSSCHE, AB Assessing the Impact of Trauma on Hot and Cold Executive Functions Independent of Diagnosis
  59. VERA-ESTAY, E All for one: Combined contributions of executive functioning and social cognition to moral reasoning in childhood
  60. VOS, LC The Relationship between Creativity, Intelligence, and Executive Function
  61. WELSH, M Effects of Task Context and Individual Differences on the “Heat” of Cool Executive Function Tasks
  62. WELSH, M Homeless Men Living in Transitional Housing: The BrainWise Curriculum and Improvements in Executive Functions and Coping Self-Efficacy
  63. WILSON, C Clinical Utility of the Barkley Deficits in Executive Functioning-Children and Adolescents Scale in a Mixed Clinical Sample
  64. WITKIN, G Utility of Tower of London in Identifying Executive Impairment in Children with ADHD and/or Learning Disability
  65. WONG, MM Sleep quality and neuropsychological functioning among children of alcoholics and controls
  66. ZIEMNIK, RE Reaction to Novelty as a Predictor of Reduced Executive Functioning Following an Expressive Suppression Task
  67. ZUMBA, M Effect of Trauma Exposure on Cognitive Functioning in a Sample of High-risk Adults
- Medical/Neurological Disorders/Other (Child)**
68. ALI, J Neurocognitive Functioning among Young Patients with Sickle Cell Disease: Associations with Demographic and Disease-related Factors
  69. ANTONINI, T Attention and Executive Functions Following Proton Beam Radiation Therapy in Pediatric Patients with Brain Tumors
  70. BADALY, D Executive Dysfunction and Social Maladjustment among Children with Congenital Heart Disease
  71. BEARDEN, DJ Cognitive, School, and Emotional Functioning in Children and Adolescents with Recurrent Abdominal Pain
  72. CALDERON, PH.D., J Cognitive Predictors of Social Cognition Outcomes in Adolescents with Congenital Heart Disease after Infant Open-Heart Surgery
  73. CHAMBERS, AM The Relationship Between Childhood Sleep Initiation Problems and Verbal Memory
  74. CONDIE, LO Adapted Developmental Assessment for Ages 18 months to 7 years
  75. DOXIE, J The Impact of Parental Stress in the Relationship Between Verbal IQ and Adaptive Functioning in Children with Early Neurological Insult
  76. FREDRICKSON, S Cognition following Decompression Surgery among Children with Chiari Malformation Type 1
  77. GERNER, GJ Contributions of Executive Function to Math Achievement in Children Born Preterm and Children Born at Term with ADHD
  78. GROSS, L Specificity of Memory Deficits in Children and Adolescents with Prenatal Alcohol Exposure
  79. HEITZER, A School Readiness and Perinatal Risk in Preschoolers Born Preterm
  80. KULESZ, PA The Longitudinal Effects of Shunt Treatment Predict Alterations in the Neural Correlates of the Posterior but not Anterior Attention Network in Spina Bifida Myelomeningocele
  81. LUCCHETTI, A Neuropsychological Profiles in Parry Romberg Syndrome: A Case Series
  82. MENTZER, M Case Study of Krabbe Disease Post-Bone Marrow Transplant
  83. MITTAL, A Implications of Congenital Heart Defect on Neurocognitive Development: Case Study of Ebstein’s Anomaly
  84. MOSS, NC Parenting Quality and Neurocognitive Outcomes in Children born Term and Preterm
  85. NORRIS, T Improvements in Functional Independence During Inpatient Rehabilitation for Children with Brain Tumors
  86. ODDI, K Neurocognitive Development Among Children Diagnosed with Methylmalonic Aciduria (MMA)
  87. PETERS, B Perinatal Risk and Motor Abilities in Preterm-Born Preschoolers
  88. SCHREIBER, JE Cognitive and Academic Functioning After Initiation of Hydroxyurea in Pediatric Patients with Sickle Cell Disease
  89. STERN, S Verbal and Visual Memory Performance in a Cohort of Children with Chiari Malformation Type 1
  90. TAM, H Neuropsychological Case Presentations of Two Common Monogenic Diabetes KCNJ11 Gene Variants
  91. YUND, B Parent Reported Temperament in Young Children with Neurofibromatosis type 1
- Acquired Brain Injury (TBI/Cerebrovascular Injury & Disease - Adult)**
92. LEVITCH, C Soccer Heading during Games is Associated with Neuropsychological Function in Amateur Players
  93. LICHTENSTEIN, J Prevalence Rates of Concussion in Ultimate Frisbee: Preliminary Findings of the Concussion in Ultimate Frisbee Survey (CUFS)
  94. LINNEA, K The Effects of a Yoga and Mindfulness Intervention on Executive Functioning in Traumatic Brain Injury

**ADHD/Attentional Functions**

95. GAUDET, CE The Role of Cultural Bias in the Continuous Performance Test Second Edition (CPT-II) in a Pediatric Sample

**Cancer**

96. POTVIN, D Traditional versus Computerized Assessment of Executive Dysfunction in Preschoolers within the Pediatric Oncology Population

**Medical/Neurological Disorders/Other (Adult)**

97. STENCLIK, JH Depression Uniquely Contributes to Performance on the MoCA in Deep Brain Stimulation Surgery Candidates with Parkinson's Disease
98. STENCLIK, JH The Effect of Depression on Executive Functioning in Deep Brain Stimulation Surgery Candidates with Parkinson's Disease

**3:45–4:45 PM**

**INS Arthur Benton (Mid-Career) Award Presentation: The Evolving Role of Neuropsychological Investigations in Multiple Sclerosis**  
**Presenter: Ralph Benedict**  
**Salon HIJK**

1. BENEDICT, RH The Evolving Role of Neuropsychological Investigations in Multiple Sclerosis

**3:45–5:00 PM****Symposium 5. Genes, Neuropsychology, and Child Psychopathology****Chair: Alys Doyle****Discussant: Larry J. Seidman****Salon ABCDE**

1. DOYLE, A Genes, neuropsychology, and child psychopathology
2. WILLCUTT, E Using Twins to Understand the Etiology and Neuropsychology of Comorbidity between ADHD and Learning Disorders
3. ADAMO, N Do Polygenic Risk Scores Predict Persistence and Remission of ADHD in Young Adulthood?
4. BURTON, CL A Genome-Wide Association Study of a Cognitive Endophenotype of ADHD in a Community-Based Pediatric Sample
5. DOYLE, A Association between Polygenic Risk for Schizophrenia and Executive Functions in Clinically-Referred Youth

**3:45–5:05 PM****Invited Symposium 2. Sleep and Cognition****Chair: Ian M. Colrain****Salon G**

1. COLRAIN, IM Sleep and Cognition
2. BLIWISE, DL Cognition and Sleep in Normal and Pathological Aging
3. ALOIA, MS Neuropsychological Consequences of Obstructive Sleep Apnea
4. COLRAIN, IM Alcoholism: Sleep, Brain and Cognitive Consequences

**3:45–5:05 PM****Paper Session 4. HIV/AIDS****Moderator: Michael R. Basso****Salon F**

1. DEVLIN, KN Empirically Derived Subtypes of Neuropsychological Impairment in HIV-1 Infection
2. BAKER, L Topological Organization of Whole-Brain Networks in HIV+ Individuals
3. CASALETTO, KB Metacognition is Associated with Executive Dysfunction and Manifest Everyday Functioning in HIV Infection
4. MENON, J Effect on HIV and TB co-infection on Neurobehavioural functioning- Evidence from Zambia

**3:45–5:05 PM**

**Symposium 6. Elucidating Depressive Symptom, Cognitive, and Affective Dimensions through Integrated Neuropsychological and Cognitive Neurosciences**

**Chair: Shawn M. McClintock****Back Bay (Dartmouth-Fairfield)**

1. MCCLINTOCK, SM Elucidating Depressive Symptom, Cognitive, and Affective Dimensions through Integrated Neuropsychological and Cognitive Neurosciences
2. DOTSON, VM Symptom Dimensions in Late-Life Subthreshold Depression: Evidence from Cognitive, Neuroscience, and Exercise Intervention Studies
3. LANGENECKER, SA Cognitive Control Dysfunction in Major Depression Disorder: a Lifespan Perspective

4. TREADWAY, M
5. MCCLINTOCK, SM

Neural Mechanisms of Effort-Based Decision-Making in Depression  
Elucidating Complex Interactions Among Depressive symptoms, Neurocognitive Function, and Neurotherapeutic Stimulation

**5:15–6:15 PM**

**Plenary D (The INS Herbert Birch Memorial Lecture). Adolescence as a Sensitive Period of Social Brain Development**  
**Presenter: Sarah-Jayne Blakemore**  
**Salon ABCDE**

1. BLAKEMORE, S

Adolescence as a Sensitive Period of Social Brain Development

**7:00–9:00 PM**

**Student Social, Hosted by the INS Student Liaison Committee**  
**Lir Irish Pub & Restaurant (903 Boylston St)**

## FRIDAY, FEBRUARY 5, 2016

**7:20–8:50 AM**

**CE 9. Cognitive and Behavioral Aspects of Frontotemporal Degeneration**  
**Presenter: Katya Rascovsky**  
**Salon F**

1. RASCOVSKY, K

Cognitive and Behavioral Aspects of Frontotemporal Degeneration

**7:20–8:50 AM**

**CE 10. Mild Traumatic Brain Injury and the Postconcussion Syndrome: How Does the Science Translate to Clinical Practice?**  
**Presenters: Michael McCrea, Grant L. Iverson**  
**Salon G**

1. MCCREA, M

Mild Traumatic Brain Injury and the Postconcussion Syndrome: How Does the Science Translate to Clinical Practice?

**9:00–10:30 AM**

**Poster Session 5. Cancer, Cross Cultural, Forensic, Malingering/Effort Testing, and MS/ALS**  
**Gloucester Hall**

### Cancer

1. ASHFORD, JM  
Parental Distress and Associated Treatment and Neurocognitive Factors among Children Diagnosed with Craniopharyngioma
2. BADALY, D  
Disordered Sleep and Attention Problems among Children with Histories of Cancer and Stem Cell Transplantation
3. BANERJEE, P  
Voxel-Based Lesion-Symptom Mapping of Phonemic Fluency versus Semantic Fluency in Brain Tumor Patients
4. FOURNIER-GOODNIGHT, AS  
Predictors of Learning and Memory Performance in Patients Diagnosed with Pediatric Craniopharyngioma
5. GIOIA, A  
Profiles of Attention-Mediated Neurocognitive Functioning in Survivors of Pediatric Brain Tumors: Comparison with Children with Neurodevelopmental ADHD
6. GOGIA, B  
Neuropsychological Implications of Gliomas in Left Fronto-Parietal Operculum with respect to Tumor Size and Grade
7. HAMILTON, J  
The Impact of Family Functioning on Executive Functioning in Pediatric Medulloblastoma
8. HILE, S  
Functional Impairment in Childhood Cancer Survivors: Relationship with NIH Examiner Executive Measures and General Intellectual Functioning
9. IRISH, J  
Childhood Cancer Survivors' Executive Functioning Skills: Does Scaffolding Bolster Behavioral Functioning?
10. JACOLA, LM  
The Utility of Parent Report in Predicting Future Neurocognitive Outcomes in Very Young Survivors of Childhood Acute Lymphoblastic Leukemia (ALL) Treated with Chemotherapy Only
11. NA, S  
BOLD Activity in Adult Survivors of Childhood Brain Tumors Following Continued Exposure on a Working Memory Task
12. PALTIN, I  
Neuropsychological Functioning at Baseline and at least 2 Years Post Cranial Proton Radiation Therapy
13. PETERSEN, J  
Late-Delayed Effects on Verbal and Visual Memory from Photon Radiotherapy for Pediatric Brain Tumors
14. TAIWO, Z  
The Neurological Predictor Scale Is Associated with Long-term Core Cognitive Outcomes in Adult Survivors of Childhood Brain Tumors

15. TRAVERS, LV      Executive Functioning and Quality of Life in Pediatric Brain Tumor Patients Post-Proton Radiation Therapy
  16. VAN DYK, K      Cognitive Complaints in Breast Cancer Survivors (BCS): Association with Mood and Cognition
  17. VAN DYK, K      Resting State EEG, Depression, and Memory in Breast Cancer Survivors (BCS)
  18. WISE, S      Rates of Neuropsychological Impairment among Children Being Treated for High-Risk Acute Lymphoblastic Leukemia
- Cross Cultural**
19. ALI, J      Challenges in Cross-cultural Neuropsychological Consultation: a Case Study of a Non-verbal Guatemalan Immigrant
  20. AVILA, J      Differential Reading Achievement-IQ Associations Across Ethnic Groups
  21. BOIVIN, MJ      The Use of Eye Tracking Technology in a Modified Fagan Test to Assess Neurocognitive Development in Rural Ugandan Infants Exposed to HIV
  22. BOIVIN, MJ      Automated Eye Tracking Technology Improves the Sensitivity of an Early Childhood Vigilance Test (ECVT) of Attention in Ugandan Children Perinatally Exposed to HIV
  23. BOYER, K      Assessment of Arabic-speaking international patients: Experience from a Pediatric Epilepsy Center
  24. BRYANT, KR      Education and Reading Ability Affects BNT Item Difficulty in a Rural Adult Sample
  25. CARRION, C      Measures of Executive Functioning as Predictors of Adaptive Functioning in a Hispanic Sample with Limited English Proficiency
  26. FUNES, CM      The Impact of Explicit Strategy Instruction on the Verbal Learning Outcomes of English- and Spanish-speaking Older Adults
  27. HOLLER, KA      The Role of Cultural Bias: Childhood Intellectual Performance in a Psychiatric Inpatient Sample
  28. LUONG-TRAN, C      Differences in Executive Functions and Behaviors of Asian and Caucasian Children
  29. MUSIELAK, KA      Effects of Mediation Intervention for Sensitizing Caregivers (MISC) and a Health and Nutrition Education Program on the Sustained Attention of Ugandan Children with HIV
  30. NEHRA, A      Are we getting Smarter? Generational change of cognitive test performance in India
  31. RIEGER, RE      Differential Associations Between Verbal IQ and Performance IQ and Executive Functioning Measures in Ethnically Diverse Preschoolers
  32. SEDO, MA      Advanced Pre-alphabetic Stroop Describes Processing Speed and Executive Control in Foreign-language-speaking Children and Adults
  33. SOTO, A      Neuropsychological Assessment: Operationalizing “Quality of Education” as High School Rankings Instead of Reading Level
  34. WILNER, E      Cross-cultural Literacy Screening in Low-educated Immigrants: A Pilot Study
- Forensic Neuropsychology**
35. PECK, CP      Utility of FBS-r scores in Differentiating Conversion Disorders from Probable Malingering
- Malingering/Effort Testing**
36. BAEK, R      Diagnostic group differences in embedded performance validity testing among patients who scored below Word Memory Test or Medical Symptom Validity Test failure cutoff
  37. BRANSON, R      Detecting Suboptimal Effort in Undergraduate Students Who Simulate Brain Injury
  38. BREARLY, TW      Understanding the Word Memory Test: Performance Validity Beyond Learning and Memory
  39. BROWER, M      Utility of the WAIS-IV Digit Span for Detecting Poor Effort
  40. CALLOWAY, JA      Initial Validation of a New and Quick Performance Validity Test: Green’s License Plate Test
  41. CAVACO, S      Predictors of adequate performance on the Coin in the Hand Test: findings from a clinical sample
  42. COLLIER, S      Evaluation of Automatized Sequences Task as an Index of Performance Validity in Pediatric Concussion
  43. DOUGAN, J      Effectiveness of the ImPACT, TOMM, and an Emotional Stroop Paradigm to Detect Simulated “Sandbagging” on Baseline Concussion Testing
  44. FARRER, TJ      Clinical Utility of TOMM Trial 1 in Academic Accessibility Populations
  45. GRABYAN, JM      Errors on the First 10 Items of the Test of Memory Malingering Predicts Failure on Later Trials of the Test of Memory Malingering
  46. HENDRIKS, M      Indicators of suboptimal effort embedded in the Wechsler Memory Scale – Fourth Edition (WMS-IV)
  47. HOELZLE, J      Development and Preliminary Validation of the Vegas Odds Test
  48. HONG, D      Sensitivity and specificity of the Dementia Profile of Word Memory Test and Medical Symptom Validity Test among Patients Who Failed the Easy Subtests
  49. KANSER, RJ      Detection of Simulated versus Bona Fide Traumatic Brain Injury Using Response Time on a Performance Validity Test
  50. KLAVER, JM      The Relationship between Self-Reported Symptom Validity and Performance Validity in Children with Neurologic Disorders
  51. LAURENT, R      Detecting Feigned ADHD Symptoms in College Students with the Test of Variables of Attention
  52. LIPPA, SM      Subjective Memory Problems, Performance Validity Test Failure, and Objective Neurocognitive Performance
  53. MARTIN, P      Does Performance Invalidity Impact the Accuracy of TOPF Word Reading Predictions of Premorbid FSIQ?
  54. NORDSTROM, L      Performance Validity Testing Among OEF/OIF/OND Veterans in Research and Clinical Contexts



- 55. PASTOREK, NJ Choice of Performance Validity Test Drastically Alters the Relation between PTSD Diagnosis and Cognitive Testing
- 56. RABKIN, AN Classification Accuracy of an Embedded Forced Choice Measure of Effort in the Rey Auditory Verbal Learning Test Among Youth
- 57. RITCHIE, KA Effectiveness of the Vegas Odds Test in Comparison to Traditional and Embedded Performance Validity Tests
- 58. ROSSETTI, M Performance Validity in Deep Brain Stimulation Candidates
- 59. STEGMAN, RL Equal versus Separate Distributions of Neuropsychological Data Relative to Numbers of Performance Validity Measures
- 60. TOLFO, SE Base Rate and Norms for the Embedded Rey Auditory Learning Test in Samples of Patients Suspected of Dementia, Forensic Patients, Simulators, and Normal Control
- 61. WHEARTY, K Evaluation of the Validity of the Reliable Spatial Span as an Effort Index on the MATRICS Consensus Cognitive Battery in Schizophrenia
- 62. WHITESIDE, D Cross Validation of a Cross-Domain Logistically Derived Performance Validity Test in a Psychiatric Sample

### Multiple Sclerosis/ALS/Demyelinating Disorders

- 63. CHAVARRO, V Cognition, Fatigue And Depression in Neuromyelitis Optica Patients
- 64. CLEM, M Premorbid Cognitive Problems in Pediatric Multiple Sclerosis: Could grade retention be an early sign?
- 65. FAYAD, A Fatigue, Sleep, Quality of Life and Academic Functioning in Pediatric Multiple Sclerosis (MS)
- 66. FAYAD, A Impact of Fatigue, Sleep and Quality of Life on Cognition in Pediatric Multiple Sclerosis (MS)
- 67. LEAVITT, VM Warmer Body Temperature is Associated with Better Cognitive Efficiency in Relapsing-Remitting Multiple Sclerosis: A Multi-Center Study
- 68. RANDOLPH, J Association between Cognitive Complaints and Vulnerability to Environmental Distraction in Multiple Sclerosis
- 69. ROMAN, CA Structural Correlates of Emotion Processing in Multiple Sclerosis
- 70. SANDROFF, BM Acute Effects of Varying Intensities of Treadmill Walking Exercise on Cognition in Persons with Multiple Sclerosis
- 71. SEGALÀ, L The Effects of Dispositional Optimism on Cognition in Multiple Sclerosis
- 72. SUMOWSKI, JF Reading, Writing, and Reserve: Literacy Activities are linked to Hippocampal Volume and Memory in Multiple Sclerosis
- 73. TILL, C Age at onset predicts working memory following acute demyelinating syndrome in children
- 74. ZAMZOW, J The Association Between Sleep Disorder Symptoms and Cognitive Function in Relapsing-Remitting Multiple Sclerosis
- 75. ZUPPICHINI, MD Structural White Matter Differences related to Learning and Memory Impairment in Multiple Sclerosis: An Exploratory DTI Analysis

### Cognitive Intervention/Rehabilitation

- 76. BERGQUIST, TF Relationship between Injury Severity and Outcome in Adults with Traumatic Brain Injury (TBI) Receiving Post-Acute Rehabilitation
- 77. RAMIREZ, FE Use of oral lavender oil for anxiety in a depression medical residential program

### Dementia (Alzheimer's Disease)

- 78. BRYANT, AM Family History of Alzheimer's Disease Predicts Performance on Executive Functioning Measures in Cognitively Intact Adults
- 79. HUA, M Content- and Context-Component Memory Task Performance in Elderly Individuals with Subjective Cognitive Decline
- 80. SPALDING, KN Two-Day Intervention Significantly Reduces Stress in Dementia Caregivers
- 81. SPAT, J The Neuropsychological Profile and Neuroimaging Biomarkers in a Patient with Corticobasal Syndrome with Underlying Alzheimer's Pathology: A Case Study

### Drug/Toxin-Related Disorders (Including Alcoholism)

- 82. RAMIREZ, FE Lead Exposure and Mental Health

### Epilepsy/Seizures

- 83. SRNKA, KD Examination of Attention "Stability" in Children with Recent Onset Epilepsy

### 9:15–10:45 AM

### Symposium 7. Advances in Understanding the Organization and Cognitive/Behavioral Functions of the Cerebellum

**Chair: Carol L. Armstrong**

**Discussant: Mark Mahone**

**Salon ABCDE**

- 1. ARMSTRONG, CL Advances in Understanding the Organization and Cognitive/Behavioral Functions of the Cerebellum
- 2. LIMPEROPOULOS, C The vulnerable immature cerebellum: Structural and functional consequences following early-life injury

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|----|---------------|--|
| 3. | WALSH, K      | Cerebellar Cognitive Affective Syndrome in Pediatric Neuro-Oncology: Intensification and Acceleration of Emerging Late Effects |
| 4. | SMITH, D      | The Paradox of Cerebellar Lateralization of Cognitive Function   |
| 5. | ARMSTRONG, CL | Mood Disorders Related to Cerebellar Activation and Cerebellar Injury  |

**9:15–10:45 AM****Paper Session 5. Dementia 1****Moderator: Dorene M. Rentz****Salon F**

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| 1. | RACINE, AM  | Cluster Analysis of Biomarkers and Memory Test Scores Provide Empirical Support for Preclinical AD Staging and Non-AD Cognitive Decline in Late Middle Age: Findings from the WRAP Study |
| 2. | PAPP, KV    | The Neuropsychology of Biomarker-Defined Preclinical Stages of Alzheimer's Disease   |
| 3. | WATSON, CW  | Socioeconomic and Educational Factors Account for Racial Inequities in Dementia Incidence in a Community Dwelling Population   |
| 4. | HOHMAN, TJ  | Asymptomatic Alzheimer's Disease: Building a Better Resilience Phenotype   |
| 5. | YEW, B      | Increased Cerebrovascular Resistance is Associated with Greater Amyloid- $\beta$ Deposition and Worse Cognitive Performance in Preclinical and Clinical Alzheimer's Disease              |
| 6. | SCHULTZ, SA | Sedentariness and moderate-intensity physical activity are associated with CSF biomarkers of Alzheimer's disease: Findings from the Wisconsin Registry for Alzheimer's Prevention        |
| 7. | BOOTS, EA   | BDNF Val66Met Polymorphism Predicts Cognitive Decline in the Wisconsin Registry for Alzheimer's Prevention   |

**9:15–10:45 AM****Paper Session 6. Medical/Neurological Disorders, Child****Moderator: Celiane Rey-Casserly****Salon G**

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|----|--------------------|--|
| 1. | PIERCY, JC         | Multiple Gestation and Neuropsychological Performance in Preschoolers Born Preterm   |
| 2. | CALDERON, PH.D., J | Impact of Early-Term Birth on Neuropsychological and Psychiatric Outcomes in Adolescents with Congenital Heart Disease   |
| 3. | ANDERSON, PJ       | Toddler Behavior is Associated with School-age Cognitive Performance in Children Born Very Preterm   |
| 4. | WASSERMAN, R       | Profiles of Neuropsychological Functioning in Children and Adolescents with Spina Bifida: Associations with Biopsychosocial Predictors and Functional Outcomes |
| 5. | FOX, ME            | Pituitary Disorders as a Predictor of Apathy and Executive Dysfunction in Adult Survivors of Childhood Brain Tumors  |
| 6. | MRAKOTSKY, C       | Brain Structure and Neuropsychological Function in Pediatric Crohn's Disease   |
| 7. | CASNAR, C          | Longitudinal Examination of Fine Motor Skills in Children with Neurofibromatosis type 1  |

**9:15–10:45 AM****Symposium 8. Deployment Trauma: Insights from the TRACTS Cohort on the Clinical, Cognitive, and Neuoratomical Effects of Mild TBI and its Comorbidities in OEF/OIF/OND Veterans****Chair: Catherine B. Fortier****Discussant: Grant L. Iverson****Back Bay (Dartmouth-Fairfield)**

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|----|-------------|--|
| 1. | FORTIER, CB | Deployment Trauma: Insights from the TRACTS Cohort on the Clinical, Cognitive, and Neuoratomical Effects of Mild TBI and its Comorbidities in OEF/OIF/OND Veterans |
| 2. | AMICK, M    | The Deployment Trauma Phenotype and Employment Status in OEF/OIF/OND Veterans  |
| 3. | POOLE, V    | Chronic Military-related Mild Traumatic Brain Injury is Associated with Decreased Sustained Attention Ability, Not Decreased Global Neuropsychological Functioning |
| 4. | FORTIER, CB | Deployment Trauma: Clinical Phenotypes and their Impact on Cognition in OEF/OIF/OND Veterans   |
| 5. | TROTTER, BB | Neuroanatomical correlates of blast exposure and PTSD, including brain aging trajectories  |
| 6. | KENNA, A    | Feasibility and Acceptability of STEP-Home: A Rehabilitation Workshop to Facilitate Civilian Reintegration Among OEF/OIF/OND Veterans                              |

**10:45–11:00 AM****AM Coffee Break  
Gloucester Hall****11:00 AM–12:00 PM****Plenary E. The Statistical Crisis in Science****Presenter: Andrew Gelman****Salon ABCDE**

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|----|-----------|-----------------------------------|
| 1. | GELMAN, A | The Statistical Crisis in Science |
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**12:30–2:00 PM****Poster Session 6. Aging, MCI, and Visuospacial/Neglect  
Gloucester Hall****Aging**

1. ALLEN, K  
Distractibility, Aging, and Driving: Relationship of Scores on the Useful Field of View Across Mini Mental State Exam, Age, Diagnosis and Drivewise Assessment Outcome Scores
2. ALLISON, S  
Route Repetition and Reversal in Older Adults
3. BARULLI, D  
Cognitive Strategies as a Possible Mechanism of Cognitive Reserve
4. BHERER, L  
Effects of combined physical exercise and cognitive training on executive functions and dual-task performance in older adults
5. BIRDSILL, AC  
Executive Function, Not Memory, Is Associated with White Matter Structure in Middle Age
6. CAMPBELL, LM  
Comparisons of Traditional and Comprehensive Approaches in Defining SuperAgers
7. CHANG, JE  
Discriminant Validity and Diagnostic Utility of the Test of Practical Judgment (TOP-J)
8. CHERRY, BJ  
Blood Pressure and Cognition
9. CHOI, A  
Cerebral Oximetry and Leukoaraiosis Contributions to Working Memory in Older Adults
10. CHUNG, H  
Assessing Medication Management Abilities in Older Adults in an Inpatient Medical Rehabilitation Setting
11. COHEN, J  
The Oblique Effect: Applying Ophthalmological and Neurophysiological Principles of Visuospatial Processing to Cognitive Aging and Vascular Health
12. DEFORD, NE  
Does Less Efficient Pattern Separation Contribute to Age-Related Deficits in Spatial Memory?
13. DENNY, K  
Assessment of a Multi-Modal Intervention to Enhance Cognitive Compensation Strategies and Promote Brain Health Activities
14. DENNY, K  
Progression from Normal Cognition to Mild Cognitive Impairment in a Diverse Clinic- and Community-Based Elderly Cohort
15. DO, N  
Predictors of Premorbid Intelligence and Cognitive Decline
16. GERTSBERG, AG  
Cognitive reserve: The Role of Occupational Experience
17. GRACIAN, EI  
Executive function and memory contributions to medication management ability in cognitively normal, older adults
18. GROSS, EZ  
Convergent and Discriminant Validity of Ex-Gaussian Parameter Estimates
19. GUZMAN, VA  
Vascular Injuries to The Brain: Which Holes Matter?
20. HIMES, L  
White Matter Lesion Burden and Functional Connectivity of Resting State Network in Healthy Aging
21. HO, JK  
Protective Effects of Angiotensin II Type 1 Receptor Blockers on Cognition and Alzheimer's Disease
22. HOLDEN, HM  
Time-Based Prospective Memory Uniquely Predicts Financial Management Capacity in Older Adults
23. JOANNETTE, M  
The Ability to Detect Changes in the Spatial Relations of Faces Is Impaired in Alzheimer's Disease
24. KARSTENS, A  
The Separate and Interactive Effects of Trauma and Depression on Cognition in Urban Dwelling Adults
25. KIELB, S  
Objective Cognitive and Functional Loss and Dementia Risk in Subjective Cognitive Decline
26. LAST, BS  
The Cost of Brain Aging: Medicare Expenditure Correlates of Atrophy and Cerebrovascular Disease in Older Adults
27. LAVALLÉE, M  
Holistic face processing is impaired in Alzheimer's disease and Lewy Body dementia
28. MCALISTER, C  
Executive Function Subcomponents and their Relations to Everyday Functioning in Healthy Older Adults
29. MCALISTER, C  
Everyday Functioning and Cognitive Correlates in Healthy Older Adults with Subjective Cognitive Concerns
30. MCINTOSH, E  
MetS and Cortical Thickness of Entorhinal Cortex in Middle-Aged and Older Adults
31. MCNEELY, J  
Blood Glucose Mediates the Relationship between Cognitive Function and Sleep Quality in Middle-Aged Adults
32. MEMEL, MB  
The Role of Visual Integration and Working Memory in Age-Related Associative Memory Deficits
33. MORENO, C  
Recall and Recognition Discriminability in Healthy Aging
34. MORIN, R  
Predictors of WAIS Vocabulary Among Black and White Older Adults
35. MUNIZ, MC  
Associations between Subjective Cognitive Decline, Depression, and Objective Cognitive Performance in Hispanic Elderly
36. OLESON, S  
Apolipoprotein E Genotype Moderates the Relationship Between Carotid Atherosclerosis and Executive Function in Middle-Aged Adults
37. PERRY, CE  
Latent Toxoplasmosis Association with Executive Function in Older Adults
38. PERRY, CE  
Association between Memory Functioning and Latent Toxoplasmosis in Older Adults
39. RADIGAN, LJ  
Cardio-metabolic Outcomes Following Close-Range Blast Exposure
40. RHODES, E  
Grit Is Protective of Late-Life Cognition: Non-Cognitive Factors as Cognitive Reserve
41. SANTORELLI, GD  
Neuroanatomical Correlates of Alexithymia in Younger and Older Adults
42. SAURMAN, J  
Measurement Invariance of Dementia Severity in ( $\delta$ )
43. SEEWALD, P  
Age-Related Differences on a New Test of Temporal Order Memory for Everyday Tasks
44. SEIDER, T  
Cognitively Engaging Activity is Associated with Preserved Cortical and Subcortical Volumes
45. SELIGMAN, SC  
Effects of Goal and Cognitive Load on Eye Movements to Everyday Objects in Healthy Older Adults
46. SOLOMON, T  
Cognitive Outcomes in a Randomized, Double-Blind, Placebo Controlled, Parallel Group, Efficacy Study of Alpha BRAIN® Administered Orally

47. SONG, H      Fronto-parietal Network Mediates the Education Effects on Reasoning Ability in Healthy Elderly People
  48. STRAINGE, L      Processing Speed, but Not Memory, Predicted Attrition in a Longitudinal Study of Health Elderly
  49. SÉVIGNY DUPONT, P      Impact of Amyloid Burden and White Matter Hyperintensities on Cognition in Normal Aging
  50. TAM, JW      A Video-based Intervention to Increase Aging Services Technologies Awareness and Promote Functional Independence
  51. THOMAS, KR      Complex Everyday Task Error Types and the Association with Neuropsychological Measures
  52. THOMPSON, J      Sex Differences in Memory Decline in Mild Cognitive Impairment and Alzheimer's Disease
  53. TIERNEY, SM      Retrieval Cue and Delay Interval Influence the Relationship Between Prospective Memory and Activities of Daily Living in Older Adults
  54. TRIFILIO, E      Cognitive Correlates of Consummatory vs. Anticipatory Anhedonia in Older Adults
  55. VENKATESAN, UM      Neuroimaging Source Memory in Aging: Putting the Context Memory Deficit in Context
  56. WALZAK, LC      Investigating Illness Burden as a Risk Factor for Cognitive and Affective Theory of Mind in Older Adults
  57. WATERS, AB      The Relationship Between Worry and Executive Functioning in Older Adults
  58. WILLIAMS, M      Computerized Speed Training Reduces Falls in Older Adults
  59. ZLATAR, ZZ      Cognitive Complaints Are Associated with Depressive Symptoms and Not with Concurrent Cognitive Performance in A Clinic-Based Sample of Older Adults
- MCI (Mild Cognitive Impairment)**
60. ACOSTA, L      Error in Category Fluency Among Individuals with Mild Cognitive Impairment: The Vanderbilt Memory & Aging Project
  61. BROWN, DS      Use of Cognitive Complaint and the Montreal Cognitive Assessment to Predict Future Mild Cognitive Impairment
  62. EDMONDS, EC      Empirically-Derived MCI Subtypes Show Distinct Patterns of Cortical Atrophy Not Captured By Conventional Diagnostic Criteria
  63. EPPIG, J      Statistically-Derived Subtypes in MCI: A Latent Profile Analysis
  64. FARRAR, D      Structural Network Differences in Individuals with High versus Low Executive Abilities in Mild Cognitive Impairment
  65. FLOWERS, AT      Neuropsychological Tests and Functional Ability
  66. GIOVANNETTI, T      Subtypes of Functional Impairment in People with MCI
  67. JEFFERSON, AL      Assessing performance on the Philadelphia (repeatable) Verbal Learning Test in non-demented older adults: The Vanderbilt Memory & Aging Project
  68. KANG, Y      A Validity Study of the Korean-Subjective Cognitive Decline Questionnaire (K-SCD-Q)
  69. KAUZOR, K      Daily Functioning in MCI Patients With and Without Caregivers
  70. LUST, BC      Interdisciplinary Studies Begin to Reveal Language Deficit in Prodromal AD and to Predict Corollary Neural Degeneration in Brain Network Connectivity
  71. MAHENDRA, N      Effects of Mild Cognitive Impairment on Linguistic Communication
  72. MOORE, C      Ventilatory Efficiency and Memory Decay in Older Adults with amnesic MCI
  73. NOVITSKI, J      Autobiographical and Spatial Fluency in Healthy Older Adults and Mild Cognitive Impairment
  74. PUTCHA, D      Neuropsychological Predictors of Instrumental Activities of Daily Living in Mild Cognitive Impairment
  75. ROCHETTE, AD      Mild Cognitive Impairment is Prevalent in Persons with Severe Obesity
  76. SEIDENBERG, M      Semantic Fluency Performance in MCI for Different Categories
  77. SHERMAN, JC      Language in Prodromal Alzheimer's Disease: Advancing Clinical Examination
  78. SIMON, SS      Cognitive and Activation Changes After Memory Training in Amnesic Mild Cognitive Impairment: Preliminary Results of a Randomized, Single-Blind Study
  79. STABLER, AR      Conversion to mild cognitive impairment at follow-up among baseline cognitively normal, older adult research participants and clinic patients with subjective cognitive impairment
  80. WERHANE, ML      The Role of White Matter Lesions and APOE Genotype in Reduced Cortical Thickness in Older Adults with Mild Cognitive Impairment
- Visuospatial Functions/Neglect/Agnosia**
81. ALVAREZ, G      Sleep/Wake Problems Are Associated With Reduced Visuospatial Performance During Adolescence
  82. BALAVAGE, KT      The Effects of the Allocation of Focal Attention and Habituation on the Line Bisection Task
  83. BIELICK, D      Hemispheric Lateralization of Attentional Background Distraction
  84. BOTT, NT      Left Entorhinal Cortex is Associated with Route Learning Based on Self-motion and Local Cues
  85. CHIU, C      Tablet-based visuospatial battery briefly assesses a wide range of hemispatial neglect symptomatology
  86. CLAESSEN, M      Navigation Ability After Stroke: An Analysis of Types of Navigation Impairment in Chronic Stroke Patients
  87. GRAVANO, J      A Case Study of Simultagnosia in an Anoxic Brain Injury
  88. KINCAID, KJ      Influence of Viewing Eye on Altitudinal Attentional Bias
  89. KNIGHT, L      Effects of Focal and Global Spatial Attention on Compound Line Bisection Tasks
  90. ROGERS, S      How Important is it to Distinguish between Specific Visuospatial Abilities in PD and AD?
  91. THOMPSON, DA      Judgment of Line Orientation: Verbal and Non-Verbal Mediation

**12:45–2:05 PM****Symposium 9. Social Cognition and Function After Child TBI: Relation to Imaging****Chair: Harvey S. Levin****Salon ABCDE**

1. LEVIN, HS
2. BABIKIAN, T
3. BEAUCHAMP, MH
4. BIEKMAN, B
5. RYAN, NP

Social Cognition and Function After Child TBI: Relation to Imaging

Neuroimaging correlates of long-term neurobehavioral outcomes in pediatric traumatic brain injury

Moral Reasoning after Pediatric TBI: A Brain-Behavior Perspective

DTI and Peer Relationships Following Pediatric TBI

Theory of Mind Mediates the Prospective Relationship Between Abnormal Social Brain Network

Morphology and Chronic Behavior Problems after Pediatric Traumatic Brain injury (TBI)

**12:45–2:15 PM****Invited Symposium 3. Genes, Environments and Their Interplay in Cognitive Aging and Dementia****Chair: Nancy Pedersen****Discussant: Sudha Seshadri****Salon F**

1. PEDERSEN, N
2. KREMEN, WS
3. MCGUE, M
4. GATZ, M
5. PEDERSEN, N

Genes, Environments and Their Interplay in Cognitive Aging and Dementia

Contributions of Behavior Genetics to Cognitive and Brain Aging

Late-Life Change in Cognitive Function: Evidence from Longitudinal Twin Research

Contributions of Twin Studies to Discerning Sex Differences in Dementia

Epigenetic processes: A Potential Mechanism for Gene Environment Interplay?

**12:45–2:15 PM****Paper Session 7. Imaging and Neuropsychology****Moderator: Derin Cobia****Salon G**

1. MEREDITH-DULIBA, T
2. BIGLER, ED
3. BUTTS, AM
4. BERNIER, RA
5. BILDER, RM
6. JENKINS, LM
7. AILION, A

Multi-Modal Neuroimaging Approach to the Developing Human Brain: Infancy Through Early Adulthood

Clinical Application of Individualized Quantitative Neuroimaging for Neuropsychology – Precision Medicine Meets Neurocognitive Assessment

Cortical and Hippocampal Volume Differences in Typical and Atypical Variants of Alzheimer's Disease

Examining Network Strength and Cost during Recovery from Moderate and Severe Traumatic Brain Injury

White Matter Volume is Associated with Exceptional Creativity: Preliminary Findings from the “Big C” Project

Similarities in White Matter Integrity across Internalizing disorders: A Voxel-Based Meta-Analysis of Fractional Anisotropy

Interaction between Age at Diagnosis and Radiation Therapy is related to Cerebellar Atrophy in Long-Term Survivors of Pediatric Brain Tumors

**1:00–2:20 PM****INS Student Liaison Committee Panel Discussion: The Internship & Post-Doctoral Match: An Insider's Guide for Trainee Success****Presenters: Jeff Baker, Amy Heffelfinger, Kelly E. Jones, Kristina Patrick Back Bay (Dartmouth-Fairfield)****1:00–2:20 PM****Symposium 10. Risk and Protective Factors for Outcomes in MS and Sports-Related mTBI****Chair: Peter Arnett****Salon HIJK**

1. ARNETT, P
2. UKUEBERUWA, D
3. CADDEN, M
4. MEYER, J
5. MERRITT, VC

Risk and Protective Factors for Outcomes in MS and Sports-Related mTBI

Coping Style is a Protective Factor for Emotional Consequences of MS Neuropathology

Cognitive Reserve Attenuates the Effect of Disability on Depression in Multiple Sclerosis (MS)

Risk Factors for Domain-Specific Post-Concussion Cognitive Deficits

Relationship Between Traditional Markers of Injury Severity and Post-Concussion Symptom Clusters in Concussed Collegiate Athletes



**2:15–3:30 PM****Symposium 11. Neurotoxicants and the Etiology of Neurodevelopmental Disorders: A Multidisciplinary Approach****Chair: Amy E. Margolis****Discussant: Larry J. Seidman****Salon ABCDE**

1. MARGOLIS, AE
2. MARGOLIS, AE
3. RAUH, V
4. HERBSTMAN, J

Neurotoxicants and the Etiology of Neurodevelopmental Disorders: A Multidisciplinary Approach  
 Effects of Prenatal Exposure To Air Pollutants (Polycyclic Aromatic Hydrocarbons) on Inhibitory Control And Academic Achievement  
 Signature Neuropsychological Profile of Children with Prenatal Exposure to a Common Organophosphate Pesticide  
 Prenatal Exposure to Brominated Flame Retardants (PBDE) and Problems with Attention and Cognition: Results from a Longitudinal Birth Cohort

**2:15–3:45 PM****Poster Session 7. Imaging (Functional & Structural) and Medical/Neurological Disorders (Adult)  
Gloucester Hall****Imaging (Functional)**

1. BERNIER, RA
2. DRISKELL, LD
3. DUPERROUZEL, JC
4. FORTENBAUGH, F
5. GARCIA, A
6. HALLOWELL, ES
7. HOSSEINI-KAMKAR, N
8. LENGU, K
9. LETZEN, JE
10. LEVY, S
11. LI, AX
12. MARGOLIS, AE
13. MCWILLIAMS, K
14. NGUYEN, PT
15. NYMAN, T
16. SCHWAB, NA
17. SUGARMAN, MA
18. ZAJAC, L
19. ZLATAR, ZZ
20. KILLGORE, WD
21. KILLGORE, WD

Loss of Long-distance Functional Connections in Chronic TBI  
 The Relationship Between Somatic Symptoms and Regional Cerebral Blood Flow in Individuals with Generalized Anxiety Disorder  
 Functional Neuroimaging Consensus Regarding Executive Function Alterations Among Cannabis Using Adolescents and Young Adults  
 Early Life Trauma Impairs Sustained Attention Ability and Alters Functional Connectivity in OEF/OIF/OND Veterans  
 The Relationship between DMN Activation and Intelligence in Older Adults  
 Substance Use Effects and Insula Response during a functional MRI Working Memory Task in Rural African Americans  
 The Neural Correlates of Cognitive and Behavioral Self-Regulation in Preadolescents: A Multidisciplinary Approach  
 Neural Correlates and Predictors of Infant Social-Emotional Development Explored with Functional Near-Infrared Spectroscopy  
 Functional Connectivity of the Default Mode Network Under Different Mood States  
 Functional Connectivity in Long-Term Abstinent Alcoholics  
 A Survey of Clinical Language fMRI Use in Epilepsy in 2015  
 Using Neuroimaging to Understand Brain-Behavioral Associations During Cognitive Control  
 The Effects of Emotion on Visual Memory Processing Network Connectivity  
 Functional Connectivity of the Frontoparietal Network as a Predictor of Working Memory Performance  
 Social Communication Explored via Eye Gaze Processing in 9 Month Old Infants: A fNIRS Study  
 Pre-surgical cognition predicts decline in default mode network after total knee replacement surgery  
 The Semantic Memory Imaging in Late-Life Pilot Study  
 Brain Networks Involved in the Aesthetic Judgment of Visual Stimuli  
 Interactive Effects of APOE Genotype And Cognition on Brain Perfusion in Normal Aging And Mild Cognitive Impairment  
 Baseline Responsiveness of the Ventral Striatum Predicts Overeating During Subsequent Sleep Deprivation  
 Predicting Resistance to Sleep Deprivation using Multimodal Neuroimaging

**Imaging (Structural)**

22. KILLGORE, WD
23. BEATTIE, JF
24. BUCHHOLZ, JL
25. CAGLE, LM
26. CHEN, M
27. CHRISTENSEN, ZP
28. CHRISTENSEN, ZP
29. CROWLEY, SJ
30. CROWLEY, SJ
31. FRIDMAN, A
32. HUFF, T

Prefrontal GABA Correlates with the Ability to Sustain Vigilance During Sleep Deprivation  
 Anterior Hippocampal Dentation Predicts Episodic Memory Performance in Healthy Adults  
 Expressive Suppression is Associated with Greater Lateral Orbitofrontal Cortex Volume in Adults with Major Depressive Disorder  
 Elevated Depression Scores Predict Long-term Decline in White Matter Integrity Among Older Adults  
 Spatial Co-registration of Functional Near-Infrared Spectroscopy to Magnetic Resonance Imaging in Older Adults  
 Temporal Lobe Pathology and Increased Somatic Complaints in Pediatric TBI  
 Neuroimaging Correlates of Aggression in Pediatric Traumatic Brain Injury  
 Brain Voxel Based Morphometry in Idiopathic PD: The Influence of Total Intracranial Volume  
 Testing the Reliability and Validity of Three Total Intracranial Volume Measurement Methods  
 Gray Matter Volume in Left Medial Prefrontal Cortex Is Related to Life Satisfaction in Individuals with Mild Traumatic Brain Injury  
 Trevor Huff, Tracy Abildskov, Elisabeth Wilde & Erin Bigler et al. MRI Tissue-based intensity standardization for multi-site neuropsychological outcome studies: Problems and Potential Solutions

33. KIRTON, JW Regional White Matter Lesion Volume and Depressive Symptom Dimensions
  34. MAHMOOD, Z The Interactive Effects of HIV and Marijuana Use on Cognition and White Matter Integrity
  35. MCGREAL, AE Relationship Between Resilience and Hippocampus Volume in Adults With and Without Posttraumatic Stress Disorder
  36. MCLAREN, ME Symptom Dimensions of Depression and Age Impact Subfield Hippocampal Volume
  37. MEWBORN, C Microstructural White Matter Integrity Predicts Performance on Instrumental Activities of Daily Living (IADLs) in Older Adults
  38. NG, K Automated versus Manual Measurement of Hippocampus and Entorhinal Cortex in a Memory Clinic Sample
  39. OOT, E Nucleus Accumbens Volume Predicts Delay Discounting in Emerging Adult Binge Drinkers
  40. PIERS, RJ Association between Atrial Fibrillation and Volumetric MRI Brain Measures: Framingham Offspring Study
  41. ROBINSON, KE Diffusion Tensor Imaging Following Pediatric Brain Tumor: Associations with Neuropsychological and Psychosocial Functioning
  42. SALMINEN, L Tract-Specific Changes in White Matter Fiber Bundle Lengths with Age
  43. SHAKED, D Differential Relations of Socioeconomic Status to Prefrontal Cortex Volumes among African American and White Adults
  44. SINGH, P Volumetric Differences in Gray Matter in Healthy Versus Overweight/Obese Individuals Post Mild Traumatic Brain Injury: A Voxel Based Morphometric Study
  45. SMITH, K Corpus Callosum Volume and Reading Skill in Adult Survivors of Childhood Brain Tumors
  46. STEIN, E Insula Cortical Thickness Relates to Impulse Control in Adolescents and Emerging Adults
  47. SZYMKOWICZ, SM Structural Abnormalities in Cortical Thickness, Surface Area, and Volume of the Precuneus in Older Adults with Depressive Symptoms
  48. WILLIAMS, VJ Increased Gyrfication and Thinner Cortex in Children with Poor Single Word Decoding Skills
  49. STELMOKAS, J A Direct Comparison of Medial Temporal Lobe Volumes and Memory Using NeuroQuant® and FreeSurfer in Healthy Controls and Mild Cognitive Impairment
- Medical/Neurological Disorders/Other (Adult)**
50. STELMOKAS, J The Relationship Between Emotional Distress, Somatic Preoccupation, and Neurobehavioral Symptoms in Veterans with Mild Traumatic Brain Injury
  51. BEZDICEK, O Long-term Cognitive Sequelae of Methanol Poisoning
  52. BONO, AD Evaluation of Facial Emotional Expression: Parkinson's Disease and Gender Effects
  53. BRETT, BL Neuropsychological Phenotypes in Essential Tremor and Parkinson's Disease Patients
  54. BRETT, BL Neuropsychological Predictors of Levodopa Equivalent Dose in Parkinson's Patients Undergoing Deep Brain Stimulation
  55. CARAHER, KJ Neuropsychological, Mood, and Quality of Life Impact of Weight Status in Parkinson's Disease
  56. CARLOZZI, NE Self-reported cognition in Huntington disease
  57. CHAN, ML Predictors of Functional Ability in Corticobasal Degeneration and Progressive Supranuclear Palsy
  58. CHAYTOR, N The Relationship Between Neuropsychological Performance, Diabetes Numeracy, and Instrumental Activities of Daily Living in Older Adults with Type 1 Diabetes
  59. DEMIAN, M Health Literacy Predicts Medication Adherence in Kidney Transplant Recipients Beyond the Effect of Common Indicators of General Literacy
  60. DENNEY, DA Cognitive and Behavioral Predictors of Fall Risk in Parkinson Disease
  61. DUNN, CB Associations Between Cognitive Functioning and the JNC-8 Guidelines for Hypertension in Older Adults
  62. FARRER, TJ Post-Operative Delirium Fails to Predict Cognitive Functioning Longitudinally
  63. HARLEY, A Rate of Cognitive Decline in PSP vs. CBD
  64. HIGHSMITH, J Cardiovascular Risk Models Predict Processing Speed Performance: Initial Evidence from a Veteran Sample
  65. JONES, J Regional Leukoaraiosis, Lacunes, and Cognition in Atrial Fibrillation: A Pilot Investigation
  66. JONES, J Cognition and Parkinson's Disease: the Influence of Health Comorbidities and Leukoaraiosis
  67. KANG, S Attentional Engagement Underlies Rey Complex Figure Test Performance in Systemic Lupus Erythematosus
  68. KOZORA, E Functional MRI Abnormalities in Systemic Lupus Erythematosus and Antiphospholipid Antibody Positive Patients
  69. KOZORA, E Symptom Presentation and Cognitive Dysfunction in Patients with Sarcoidosis
  70. LEVY, S No Titanic Effect on Digit Symbol in Idiopathic Non-Dementia Parkinson's Disease
  71. LEVY, S One-Year Reliable Change of Cognition and Mood in Idiopathic Non-Dementia Parkinson's Disease
  72. LIEBEL, SW Cognitive Processing Speed Mediates the Relationship between Age and Executive Functions in Cardiovascular Disease
  73. NGUYEN, L Clinical Correlates of Sleep Disturbance in Non-demented Parkinson's Disease Patients
  74. O'MARA, A The Effects of Subthalamic Nucleus (STN) Deep Brain Stimulation (DBS) Across Phonemic, Semantic and Action Fluency Measures in Parkinson's Disease
  75. PAQUETTE, S A Compromised Neural Noise-Cancellation Mechanism at the Center of Tinnitus Perception
  76. RECKOW, J Cognitive Changes Following Transcatheter Aortic Valve Implantation
  77. REY, OL Cognitive Performance of Hypertensive Adults
  78. SABBAAH, LE Hashimoto's Encephalopathy Case Report

79. SALAZAR, R Self-Perceived Stigma in Parkinson's Disease: Relation to Motor Symptoms, Age, Gender, and Mood  
 80. SCHNEIDER, HL Does REM Behavior Sleep Disorder Alter Deep Brain Stimulation Outcome in Parkinson's Disease?  
 81. SCOTT, BM Differential effects of apathy, depression, and anxiety on cognitive function in Parkinson's disease, essential tremor, and dystonia  
 82. SHAH, M Impact of sleep loss on attention in student with high or low Internet use  
 83. SLYNE, KE The Association Between Cognition and Depression on Disease Severity in Huntington's disease  
 84. SUN-SUSLOW, N Components of Metabolic Syndrome in Predicting Deep Brain Stimulation (DBS) Outcome in Idiopathic Parkinson's Disease Patients  
 85. VOGEL, S Neuropsychological Function in Lung Transplant Survivors  
 86. WADSWORTH, H Cognition and Balance in Normal Pressure Hydrocephalus Pre- and Post-Lumbar Drain  
 87. WARD, A Perceived Cognitive Difficulties and Objective Neuropsychological Performance in Former Smokers with and without Chronic Obstructive Pulmonary Disease  
 88. WASSERMAN, VJ Parkinson's Disease Affects the Perception of Motion-Defined Gestures  
 89. WOJTOWICZ, M Olfaction and Cognition in First-Degree Relatives of Individuals with Parkinson's Disease  
 90. WOJTOWICZ, M Olfaction, Information Processing Speed, and Performance Variability in Early Parkinson's Disease  
 91. WYMAN-CHICK, KA Verbal fluency in parkinsonism with and without dopaminergic deficiency on [123I]-FP-CIT SPECT imaging  
 92. WYMAN-CHICK, KA Equivalency of verbal fluency categories among older adults with Parkinson's disease  
**Dementia (Non-AD)**  
 93. BUTTS, AM Clinical Profiles of Logopenic Primary Progressive Aphasia based on FDG-PET  
**Psychopathology/Neuropsychiatry (Including Schizophrenia)**  
 94. TROYANSKAYA, M A Preliminary Investigation of Stress Symptoms and Cognitive Control-Related Brain Function Following OEF/OIF Deployment

**2:30–3:30 PM**

**INS Early Career Award Presentation: Non-Pharmacologic Treatment of Memory Deficits in Mild Cognitive Impairment**  
**Presenter: Benjamin M. Hampstead**  
**Salon HIJK**

1. HAMPSTEAD, BM Non-Pharmacologic Treatment of Memory Deficits in Mild Cognitive Impairment

**2:30–3:30 PM**

**Paper Session 8. Executive Functions/Frontal 1**  
**Moderator: Katherine L. Possin**  
**Salon F**

1. BETTCHER, BM Neuroanatomical Substrates of Executive Functions: Beyond Prefrontal Structures  
 2. DULAY, MF Study of the executive function network after focal stroke to frontal lobe, cerebellum, thalamus or pons  
 3. MILLER, AK Neuropsychological and Behavioral Correlates of Impulsivity among Substance Abusing Women  
 4. DONELAN, J Early lead exposure in children. Is there a neuropsychological effect?

**2:30–3:30 PM**

**Paper Session 9. Mild Cognitive Impairment (MCI)**  
**Moderator: Jill Razani**  
**Salon G**

1. BANGEN, KJ Cortical Amyloid Burden in Empirically-Derived Mild Cognitive Impairment Subtypes  
 2. PETTIGREW, C Cortical Thickness and Cognitive Reserve in Relation to Clinical Symptom Onset in Preclinical AD  
 3. LIBON, DJ Dissociating Constructs Underlying Working Memory in Mild Cognitive Impairment: A Competitive Queuing Analysis  
 4. BETTCHER, BM Pro- and Anti-Inflammatory SNPs Predict Memory Performance in Mild Cognitive Impairment

**2:30–3:30 PM**

**Paper Session 10. Cancer**  
**Moderator: Kevin R. Krull**  
**Back Bay (Dartmouth-Fairfield)**

1. CHEUNG, Y White Matter Integrity, Neurocognitive and Neurobehavioral Outcomes in Long-term Survivors of Childhood Acute Lymphoblastic Leukemia (ALL)  
 2. CONKLIN, HM Cognitive Performance Before and After Proton Therapy in Children Recently Treated for Craniopharyngioma  
 3. VUOTTO, S The Impact of Alcohol Consumption on Neurocognitive Dysfunction in Adult Survivors of Childhood Cancer  
 4. STUDAWAY, AR Neurocognitive and Quality of Life Outcomes of Chronic Hepatitis C Infection among Adult Survivors of Childhood Cancer: A Report from the St. Jude Lifetime Cohort

**3:30–3:45 PM**

**PM Coffee Break  
Gloucester Exhibit Hall**

**3:45–4:45 PM**

**Plenary F. The Development of Executive Functions: Principles and Strategies for Aiding that and Differences by Genotype and Gender**  
**Presenter: Adele Diamond**  
**Salon ABCDE**

1. DIAMOND, A

The Development of Executive Functions: Principles and Strategies for Aiding that and Differences by Genotype and Gender

**5:00–6:00 PM**

**Plenary G. Developing Neuropsychology in Developing Countries: An African Perspective**  
**Salon ABCDE**

1. WATTS, A

Developing Neuropsychology in Developing Countries: An African Perspective

**6:00–6:30 PM**

**INS Business Meeting  
Salon ABCDE**

**6:30–7:30 PM**

**President's Reception  
3rd Floor Atrium & Lounge**

## **SATURDAY, FEBRUARY 6, 2016**

**7:20–8:50 AM**

**CE 11. War and the Brain: Neuropsychological Alterations among Returning Veterans**  
**Presenter: Jennifer Vasterling**  
**Salon F**

1. VASTERLING, J

War and the Brain: Neuropsychological Alterations among Returning Veterans

**7:20–8:50 AM**

**CE 12. Introduction to Ethics in the Mind- And Neuro-Sciences (Neuroethics)**  
**Presenter: Eric Racine**  
**Salon G**

1. RACINE, E

Introduction to Ethics in the Mind- And Neuro-Sciences (Neuroethics)

**9:00–10:30 AM**

**Poster Session 8. Cognitive Intervention/Rehabilitation, Dementia, and Drugs**  
**Gloucester Hall**

### **Cognitive Intervention/Rehabilitation**

1. ALTMANN, LJ

Effects of Depth of Semantic Processing on Action Initiation

2. ALVA, JI

Memory Skills Class Impact on Healthcare Utilization in Older Veterans with PTSD

3. ANDERSON-HANLEY, C

Neuropsychological Effects of Interactive Physical & Cognitive Exercise System (iPACES) for Older Adults: Pilot Comparison of In-Home Neuro-Exergame Versus Neuro-Game

4. BARLOW-KRELINA, E

Efficacy of Working Memory Training for Individuals with Early-Stage Huntington's Disease: A Pilot Study

5. BARTHELEMY, O

The Effects of Sustained Attention Training on Cognitive and Functional Outcomes in Parkinson's Disease: A Pilot Study

6. BONO, AD

The Effect of the Lee Silverman Voice Treatment (LSVT) on Facial Mobility, Social Engagement, and Emotional Experience in Parkinson's Disease (PD)

7. CHOUDHURY, TK

Comparative Patient Satisfaction and Efficacy of a Parkinson's Disease Enrichment Program (PEP)

8. CLARK, EL

Using a Mindfulness Approach to Reduce the Imagination Inflation Effect in Older Adults

9. DALEY, RT

Age Well through Interaction and Scientific Education (AgeWISE): A Cognitive Intervention for Older Veterans

10. ESKES, G

Does Working Memory Training Work? A Pilot Study in Parkinson's Disease

11. FRANZ, H

Preliminary Effectiveness of the STEP-Home Workshop in Facilitating Post-Deployment Reintegration among OEF/OIF/OND Veterans

12. GUIMOND, S Increase in Prefrontal Activity Following a Brief Memory Training in Schizophrenia Patients
13. HO, MD Increased Functional Connectivity in Default Mode Network Associated with Application of Transcranial, Light-Emitting Diodes to Treat Chronic Aphasia: Case Series
14. HUNT, AW A Top-Down Approach to Management of Youth with Prolonged Recovery Following Concussion
15. JAYWANT, A From Seeing to Moving: A Translational Intervention to Enhance Walking in Parkinson's Disease
16. KILLGORE, WD Blue Wavelength Light Therapy Reduces Daytime Sleepiness following Mild Traumatic Brain Injury
17. KILLGORE, WD Blue Wavelength Light Therapy Improves Balance following Mild Traumatic Brain Injury
18. LANGENECKER, SA Degree of engagement in cognitive remediation predicts improvement in family support and cognitive skills in adults with Autism Spectrum Disorder
19. MARTINDALE, SL Sleep Quality as a Mediator Between Combat Experiences and Neuropsychological Outcomes in Iraq/Afghanistan Veterans
20. MCCURDY, MD Feasibility and Acceptability of a Computerized Cognitive Training Program in Survivors of Pediatric Brain Tumor
21. MCFARLAND, CP Improving Inhibition: The Effectiveness of Implementation Intentions and Visual Imagery may be Limited by Cue Specificity
22. NOVAKOVIC-AGOPIAN, T Executive Function Training in Veterans with PTSD and mTBI
23. OLIVIER, TW Effectiveness of a Comprehensive Cognitive Rehabilitation Protocol with a Neurologically-Compromised Adolescent
24. R.-MERCIER, A A study of Feasibility and Acceptability using a Computerized Cognitive Remediation program with youth suffering from Psychiatric disorders with Maltreatment
25. RASKIN, S Use of Goal Management Training to Improve Prospective Memory Performance in Individuals with Brain Injury
26. THIBAUDEAU, E Improving Verbal Memory in Teenagers with Psychiatric Disorder and a History of Maltreatment: A Multiple Case Study
27. THOMAS, KR Age as a Moderator of Change Following Compensatory Cognitive Training in Severe Mental Illness
28. UPSHAW, J Beyond Simple Narrative: Biological, Neuropsychological, and Social Support Factors Involved in Atypical Recovery from Stroke in a Single Case Study
29. WEKKING, EM Improving the Sequelae of Cognitive Deficits in Patients with Severe Mental Illness: an Individual Approach
30. WIEGAND, LA Factors Associated with Positive Rehabilitation Outcome from Cerebrovascular Insult as Measured by Change in Functional Ability Using Mayo-Portland Adaptability Inventory Change Scores

### **Dementia (Alzheimer's Disease)**

31. AGHJAYAN, SL Subjective Memory Concerns and Amyloid Burden in Clinically Normal Individuals: the Impact of Age, Education, and Sex
32. BONNER-JACKSON, A Variables Affecting Caregiver Burden in a Memory Clinic Population
33. CASTILLO, GM Tower Test Performance between MCI and AD Individuals
34. COTHRAN, TP A Preliminary Analysis of Differences in Neuroimaging Biomarkers between Middle-Aged African-American and White/Non-Hispanic Individuals with a Parental History of Alzheimer's Disease
35. DEFEIS, BL Healthcare Outcomes of Dementia Diagnosis Disclosure: Patients Uninformed of Dementia Diagnoses Are More Likely to Be Hospitalized
36. DURANT, J Comparing the Test of Practical Judgment with the Neuropsychological Assessment Battery Judgment subtest in a Dementia Population
37. ENNOK, M Performance of WAIS-III Digit-Symbol subtest and Incidental Learning procedures in patients with Alzheimer's disease
38. FALLOWS, RR The Relationship Between Subjective Instrumental Activities of Daily Living (IADL) Complaints and Objective Measures of Functioning
39. FERRER-ARAGÓN, J Semantic processing of concrete and abstract words in Alzheimer's disease and primary progressive aphasia
40. FIGUEROA, CM Sensitivity of Component Attentional Measures to Subtle Cognitive Changes and Real-World Driving Performance in Early Alzheimer's Disease: A Longitudinal Examination
41. GOLDBERG, JS Neuroanatomical Correlates of Apathy on The Frontal Systems Behavior Scale in Frontotemporal Dementia And Early-Onset Alzheimer's Disease
42. HANULIK, I Longitudinal Assessment of Two Types of Prospective Memory in Healthy Aging and Mild Cognitive Impairment
43. HARTMAN, ER Effects of Cerebrovascular Risk on White Matter Network Characteristics in Mild Cognitive Impairment and Alzheimer's Dementia
44. HAYS, C Relationship between Cerebral Blood Flow and Cerebrospinal Fluid Levels of Amyloid Beta and Tau in Normal Cognitive Aging
45. HAZLETT ELVERMAN, K Preclinical Markers of Risk for Alzheimer's Disease in a Task of Inhibitory Control
46. HE, A Longitudinal Assessment of Metacognition in Mild Cognitive Impairment and Dementia
47. HOIDA, E Memory Age and Semantic Specificity of Famous Names in AD and Individuals at Genetic Risk for AD
48. JACOBSON, AJ Executive Dysfunction and Reduction in Cortical Thickness Distinguish Behavioral Variant Frontotemporal Dementia From Early-Onset Alzheimer's Disease
49. JOHN, SE Effectiveness and Unique Contribution of Neuropsychological Tests in the Differential Diagnosis of Dementia



50. LANE, EM Insulin Sensitivity, Neuropsychological Performance, and Cognitive Diagnosis: The Vanderbilt Memory & Aging Project
51. LARA-RUIZ, J Functional Outcome, Cognitive Decline and Symptoms of Depression in Participants with Alzheimer's
52. LEBOWITZ, BK Stability of HART Estimated IQ in Clinically Referred Patients
53. LOBUE, C Earlier Age of Diagnosis in Alzheimer Disease by Sex: The Additive Effect of Traumatic Brain Injury History and Apolipoprotein e4
54. NATION, DA Older Adults Taking AT1-Receptor Blockers Exhibit Reduced Cerebral Amyloid Retention and Progression to Dementia
55. POSADA, C Depression with Spiritual Delusions as a Manifestation of Early-Onset Alzheimer's Disease: A Case Report
56. RADKE, A Recognition Memory as a Cognitive Biomarker for Alzheimer's Disease
57. ROSTAMI, R The Association between Executive Function and Lipid Levels in the CSF of Individuals with Pre-symptomatic Alzheimer's Pathology
58. SHERMAN, JC An investigation into cognitive and test factors that impact performance on the Free and Cued Recall Test among patients with MCI and Dementia
59. TAT, MJ Caregiver and clinician impressions of false memory in patients with Alzheimer's disease: A questionnaire study
60. TATE, DF Global Measures of Brain Volume and Neuropsychological Performance in the Cache County Memory and Aging Study
61. VILA-CASTELAR, C Detecting response to Cholinergic treatment in AD after 6 week double-blind placebo controlled trial: sensitivity of attentional measures on accuracy, fatigue and variability
62. VILA-CASTELAR, C Attentional Blink predicts treatment response to cholinesterase inhibitors in patients with AD: accuracy on a high load top-down task

### **Dementia (Non-AD)**

63. BERTOUX, M Social cognition distinguishes amnesic behavioural variant frontotemporal dementia from Alzheimer's disease
64. CARR, A Perceived Emotional Intelligence (EI) and Social Behavior Disturbance in Behavioral Variant Frontotemporal Dementia (bvFTD) and Early-Onset Alzheimer's Disease (eAD)
65. FEDOR, A Cognitive Function does not Moderate the Relationship Between Subjective and Objective Physical Activity in Older Adults
66. KORSNES, M The Mini-Mental State Exam (MMSE) and the Montreal Cognitive Assessment (MoCA) as a diagnostic screening tool in an old age psychiatry department
67. LATREILLE, V Neuropsychological Correlates of Dementia Development in Parkinson's Disease
68. PARANAWITHANA, C Validation of the Repeatable Battery for the Assessment of Neuropsychological Status for individuals diagnosed with Dementia
69. SCHAEFER, LA Vowel Versus Consonant Letter-Word Fluency: Differences Between Dementia Types?
70. STALEY SHUMAKER, BE Variation of Verbal Memory in Healthy Older Adults with Diastolic Blood Pressure and Cholesterol

### **Drug/Toxin-Related Disorders (Including Alcoholism)**

71. BAZINET, A Neuropsychological Performance of Adults with Active Methamphetamine Dependence Compared to Adults in Early Remission and Never Users
72. LE BERRE, A Differential Impairment in Prospective and Retrospective Metamemory Monitoring in Nonamnesic Alcoholism: Evidence toward Mnemonic Anosognosia
73. MAHONEY, JJ The Impact of Comorbid Drug Use and Cocaine Use Patterns on Cognitive Functioning in Individuals with Cocaine Use Disorders
74. MAHONEY, JJ Cognitive Functioning in Cigarette-Deprived Smokers
75. MULHAUSER, K Abstinence-based Changes in Neurological Functioning During Residential Treatment for Alcohol and Cocaine Use Disorders
76. ROSS, JM Effects of Cannabis Use on Neurocognition among Persons Living with HIV: Preliminary Observations
77. ROSS, JM Decision-Making and Cannabis Use Interact to Predict Risky Sexual Behavior
78. SASSOON, SA Visuospatial Construction and Memory in Adolescence: Relations with Age, Sex, Alcohol Drinking, and Organizational Strategy
79. SULLIVAN, K Herbicide Exposure and Brain Magnetic Resonance Imaging (MRI) in South African Farmers
80. TIMKO, A Psychiatric Symptom Clusters are Associated with Social Perception Task Performance among Individuals with Alcohol Use Disorder
81. TOMLINSON, E Smoking Effects on Cognitive Function in Veterans with Comorbid PTSD and Alcohol Use Disorder
82. WRIGHT, NE Young Adult Marijuana Use and Gender Effects on Frontolimbic Function: Depression, Anxiety, Impulsivity, and Executive Dysfunction

### **Electrophysiology/EEG/ERP**

83. MIGNAULT GOULET, G Music Lessons in Teenagers with Congenital Amusia

### **Memory Functions**

84. O' SHEA, DM Older adults with poor self-rated memory have less depressive symptoms and better delayed memory performance when perceived self-efficacy is high

**9:00–10:30 AM**

**Poster Symposium 2. Neuropsychological Assessment & Rehabilitation from Literates to Illiterates: An Indian Perspective**  
**Organizer: Ashima Nehra**  
**Gloucester Exhibit Hall**

**Cognitive Intervention/Rehabilitation**

- 85. NEHRA, A Neuropsychological Assessment & Rehabilitation from Literates to Illiterates: An Indian Perspective
- 86. NEHRA, A Neuropsychological Assessment in India: Impact of Education Revolution
- 87. KAUR, H Development & Effectiveness of a Home Based Neuropsychological Rehabilitation Program for Patients Suffering from Aphasia
- 88. NEHRA, A Cognitive Rehabilitation of Individuals after Traumatic Brain Injury Using an Eclectic Literacy and Culture Free Intervention Program

**9:00–10:30 AM**

**Invited Symposium 4. Cognitive Rehabilitation and Neuroimaging in Clinical Populations**  
**Chair: John DeLuca**  
**Discussant: Erin D. Bigler**  
**Salon ABCDE**

- 1. DELUCA, J Cognitive Rehabilitation and Neuroimaging in Clinical Populations
- 2. DELUCA, J Cognitive Rehabilitation in Multiple Sclerosis
- 3. CHIARAVALLLOTI, ND Cognitive Rehabilitation and Neuroimaging in Traumatic Brain Injury (TBI)
- 4. OJEDA, N Cognitive, Functional and Brain Changes in Parkinson's Disease After Cognitive Remediation
- 5. KESHAVAN, M Cognitive Rehabilitation and Neuroimaging in Schizophrenia

**9:00–10:30 AM**

**Symposium 12. Health Factors Related to Cognitive and Neural Plasticity**  
**Chair: Elizabeth Leritz**  
**Discussant: William P. Milberg**  
**Salon F**

- 1. LERITZ, E Health Factors Related to Cognitive and Neural Plasticity
- 2. LERITZ, E Neuroanatomical and Neuropsychological Correlates of Conjoint Cerebrovascular Disease Risk
- 3. SALAT, DH Differential Associations between Systemic Markers of Disease and White Matter Tissue Health in Middle Aged and Older Adults
- 4. HALEY, A Mechanisms linking abdominal obesity to neuronal viability in midlife
- 5. HAYES, SM Cognitive and Neural Correlates of Physical Activity in Aging
- 6. VOSS, M Investigating the Relationships Between Physical Activity, Exercise, and Fitness with Functional Brain Health in Older Adults

**9:00–10:30 AM**

**Paper Session 11. Pediatric Neuropsychology**  
**Moderator: Mary Best**  
**Salon G**

- 1. DENTON, CA Effects of Attention-Deficit/Hyperactivity Disorder (ADHD) Treatment and Intensive Reading Instruction for Children with Comorbid ADHD and Significant Word Reading Difficulties (RD)
- 2. SCOTT, J Cognitive Functioning in Adolescent and Young Adult Cannabis Users: Results from a Large Community-Based Sample
- 3. GONZALEZ, R Decision-Making as a Risk for Development of Cannabis Dependence among Teens: Preliminary Observations
- 4. HINTON, VJ The Cognitive and Behavioral Phenotype Associated with Glut 1 Deficiency Syndrome
- 5. MANGIN, KS Trajectories of Cognitive Development in Very Preterm and Typically Developing Children
- 6. HOOPER, SR First Grade Predictors of Early Elementary School Writing Skills Through Fourth Grade
- 7. TROYB, E Examining the Relationship Between Restricted and Repetitive Behaviors and Executive Functioning in Children with Autism Spectrum Disorders

**9:00–10:30 AM**

**Symposium 13. Risk Factors in the Development of Executive Functioning in Children**  
**Chair: Rachel Weber**  
**Back Bay (Dartmouth-Fairfield)**

- 1. WEBER, R Risk Factors in the Development of Executive Functioning in Children
- 2. DUVAL, S Risk Factors for Executive Function in Preschoolers Born Preterm
- 3. WEBER, R Risk Factors for Executive Functioning in Linguistically Diverse Children
- 4. LAFAVOR, T Executive Function in Homeless and Highly Mobile Children

**10:30–10:45 AM****AM Coffee Break  
Gloucester Exhibit Hall****10:45 AM–12:00 PM****Poster Session 9. Emotional Processes, Genetics, HIV/AIDS, and  
Psychopathology/Neuropsychiatry  
Gloucester Hall****Emotional Processes**

1. BEAUCHAMP, MH Attribution of moral emotions to social decision-making from childhood to early adulthood
2. DENO, M Salivary Stress Hormones, Emotional Responses to Stress and Trait Emotional Intelligence: A Monozygotic Twin Study
3. ECHLIN, HV Executive Processes in Emotion Regulation
4. ELLIS, A Neural Response to Monetary Reward versus Loss Predicts Symptoms in Mood Disordered Youth
5. FEIGON, M Gender Differences in Emotional Valence on the Semantic List learning Task
6. FIGUEROA, PA Cognitive and Emotional Dimensions of Empathy in Individuals with Agenesis of the Corpus Callosum
7. HAAK, CL Social Language Abilities as a Moderator of Child and Parent Report of Internalizing Symptoms
8. HARRIS, K Predictive Value of Motoric and Depressive Symptoms on Functional Impairment in Parkinson's Disease Patients
9. IKANGA, JN An Empirical Approach to Defining Emotional Communication Disorders (ECD)
10. IKANGA, JN An Empirical Approach to Defining Emotional Communication Disorders (ECD)
11. KLINEBURGER, PC Frontal Lobe Deactivation During Intense Music-Evoked Emotion
12. KRAUSE, WH Validity and Utility of Novel Primary Emotions in Multichannel Emotion Perception Tasks
13. LAFO, JA Startling Facts about Emotion in Essential Tremor: Blunted emotional reactivity as indexed by the startle eyeblink response
14. LAU, L Global-Local Visual Attention, Mood and Temperament
15. LEBLANC, É Affect Recognition as a Predictor of Rule-Breaking and Aggressive Behaviour in Childhood
16. MCKINNEY, TL The development and validation of the Alberta Implicit Scale of Emotional Reactivity (AISER)
17. MELTZER, EP Validation of the Emotion Regulation Questionnaire (ERQ) and Cognitive Emotion Regulation Questionnaire (CERQ) in Non-Demented Older Adults with Varying Degrees of Cognitive Complaints and/or Difficulties
18. MYERS, TE The "In-Group Advantage" for Perceiving Emotion across Demographic Groups and Communication Channels
19. PARTHIBAN, C Emotion Dysregulation & Apathy: Subjective and Physiological Responses Following a Mood Induction
20. PISNER, D Highways of the Emotional Intellect: White Matter Microstructural Correlates of an Ability-Based Measure of Emotional Intelligence
21. REIFE, I Social Cognition and Internalizing Symptoms: A Pilot Analysis
22. SANTOSPAGO, B Alexithymia, Apathy, and Depressive Symptoms: Convergence and Divergence
23. VANUK, JR Resting RSA Correlates with Coordinated Resting State Activity Between Brain Networks Involved in Emotional Perception
24. VANUK, JR Greater Resting State Functional Connectivity within the Default Mode and Task Positive Networks is Associated with Trait Emotional Intelligence
25. WADE, J The Relationship Between Marital Status and Happiness in Neurological Illness
26. WILLIAMS, C Parents' Anxiety Indirectly Predicts Children's Executive Functioning

**Genetics/Genetic Disorders**

27. FEE, RJ Parental report on the BRIEF does not distinguish performance on clinical measures of executive function in boys with Dystrophinopathy
28. FISCHER, MP Neuropsychological Profile and Initial Treatment Outcomes in a Child with Beta-Mannosidosis
29. HAMPTON, L Association of Russell-Silver Syndrome Phenotype and Autism Spectrum Disorder: A Review of Two Case Studies
30. HAMPTON, L Neuropsychological Outcome Across Phenotypes in Sialic Acid Storage Disease: Case Review of Two Affected Male Siblings
31. HARLEY, D Influence of CETP on Executive Functioning in Healthy Aging Adults
32. LEAFFER, EB Reversal of cognitive decline in a case of myotonic dystrophy treated for sleep problems
33. MORIN-MONCET, O BDNF Val66Met Polymorphism, Motor Learning and Intermanual Transfer of Sensorimotor Skills : A Neurophysiological TMS Study
34. TSAPANOU, A Examining the association between Apolipoprotein E-ε4 and self-reported sleep disturbances in non-demented older adults

**HIV/AIDS/Infectious Disease**

35. AMBROZIAK, AR Depression and HIV: effects on regional activity in resting state fMRI and cognitive performance
36. ARCE RENTERIA, M Functional Assessment of HIV+ Adults in South Africa: Utility of the Patients' Assessment of Own Functioning Questionnaire and Instrumental Activities of Daily Living Scale

37. ARCE RENTERÍA, M An Evaluation of the Construct Validity of a Neuropsychology Tablet App for Lay Health Workers to Screen for HAND in South Africa
  38. BANERJEE, NS Executive Functioning, Coping and Depression in HIV
  39. DASHER, NA Nonverbal versus Verbal Learning and Memory in Asymptomatic HIV Patients
  40. DOYLE, KL Verbal Memory Profiles in HIV-associated Neurocognitive Disorders: A Comparison with Huntington's Disease and Temporal Lobe Epilepsy
  41. DOYLE, KL The Effects of HIV-associated Neurocognitive Disorders Across An Integrated Functional Model of Health Literacy
  42. FAZELI, PL The Montreal Cognitive Assessment to Screen for HIV-associated Neurocognitive Disorders in Older Adults: Sensitivity, Specificity, and External Validity
  43. KABUBA, N The Use of Neuropsychological Tests in assessing HIV-associated neurocognitive disorders in Zambia
  44. KAMAT, R Apathy Is Associated with Lower Mental and Physical Quality of Life in Persons Infected with HIV
  45. KORDOVSKI, V Prospective Memory Is Related To Job Performance in Persons With HIV Infection
  46. KUHN, T The Effects of HIV and Aging on Subcortical Shape Alterations: A 3D Morphometric Study
  47. MIRANDA, C The Roles of Health Literacy, Neuropsychological Functioning, and Demographics in Health Disparities among HIV+ Adults
  48. MORGAN, EE HIV-seropositive Individuals are at Risk for Misattributing the Source of Health-Related Information
  49. OBERMEIT, LC Frontal Systems Behaviors Significantly Impact Everyday Functioning Outcomes in HIV Disease and Methamphetamine (MA) Dependence
  50. OBERMEIT, LC Self-Reported Attribution of Everyday Dysfunction: Defining Functional Dependence in HIV
  51. OLSEN, P Non-Verbal Ability As An Estimator Of Premorbid Intelligence: Does It Remain Stable Among Ethnically Diverse HIV+ Adults?
  52. SCHELL, E Relations Between Poverty and Neurocognitive Function in HIV+ Adults
  53. SHEPPARD, DP Random Number Generation in HIV Disease
  54. VILLALOBOS, J Social Cognition is Associated with Greater Conflict on Social Aspects of a Medical Decision-Making Task
  55. WACLAWIK, K The Contributions of Viral Infections, Substance Use and Psychiatric Diagnosis to Change in Memory over One Year in a Marginally Housed Sample
  56. WEBER, E Self-generation improves prospective memory performance in HIV-infected adults
- Psychopathology/Neuropsychiatry (Including Schizophrenia)**
57. BLANCHETTE, B Impaired Cognitive Abilities in a Lifetime Obsessive-Compulsive Disorder Sample
  58. BURTON, CZ Neuropsychological Correlates of Performance-Based Measures of Functional Capacity and Social Skills in Severe Mental Illness
  59. BURTON, CZ Effects of Cognition and Psychiatric Symptom Severity on Work Outcomes in Severe Mental Illness
  60. CALLAHAN, JL Verbal Learning and Memory Impairments Among World Trade Center Responders: Differential Correlates Among PTSD Sub-dimensions
  61. CHOUDHURY, TK Deep brain stimulation (DBS) for treatment of therapy-refractory obsessive compulsive disorder (OCD): a case study highlighting neurocognitive and psychiatric changes
  62. CZEPIELEWSKI, LS Cognitive Performances and Neuroanatomical Volumes at Early and Late Stages of Bipolar Disorder
  63. DAHLGREN, MK Inhibitory Task Performance Is Not Worsened by Comorbid Marijuana Use in Patients with Bipolar Disorder
  64. ESTEVIS, E Neuropsychological Correlates on Decisional Capacity for Informed Consent among Depressed Inpatients
  65. FEIGON, M Detecting PTSD in Individuals with an Electrical Injury
  66. FORTE, M Attentional Control Deficits in Schizophrenia
  67. FOX, J Default Mode Functional Connectivity Predicts Working Memory in Low Functioning Schizophrenia
  68. FUKUNAGA, R Reduced Rostral Anterior Cingulate Volume is Associated with Greater Frequency of Negative Automatic Thoughts in Adults with Major Depressive Disorder
  69. GAT-LAZER, S Harm Avoidance and Reward Dependence in Patients with Eating Disorders
  70. GELUZ, ZS Neurocognitive Correlates of Internet Addiction in University Students
  71. GORLYN, M Neurocognitive Impairment in Depression is an Independent Symptom Dimension
  72. HINRICHS, KH Baseline Intellectual Ability is Protective Against Decline in Neuropsychological Functioning: Support for a Cognitive Reserve Process
  73. KEATS, LB The Relevance of Online and Offline Theory of Mind (ToM) Processes in Predicting Social Skill Capacity among Inpatients with Schizophrenia-Spectrum Disorders
  74. KOO, B Functional coherence along the hippocampal longitudinal axis fingerprints episodic memory problems in Schizophrenics
  75. LEWANDOWSKI, KE Cognitive Variability in Psychosis: Cluster Solution Replication and Association with Resting State Networks
  76. MAKSIMOVSKIY, A Synergistic Impact of Drinking and Smoking on White Matter Integrity and Cognitive Function in Young Veterans
  77. MORRA, L The Role of Metabolic Abnormalities in the Generalized Neurocognitive Deficit in Schizophrenia
  78. OKRUSZEK, L Memory of basic emotions in schizophrenia
  79. OLSON, EA Delay Discounting and Anhedonia are Independently Associated with Suicidal Ideation in Depression
  80. OVERLY, T Neurocognitive Correlates of Schizotypal Personality Traits in University Students

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|----------------------------|--|
| 81. PARIKH, SA             | ROC Analysis of the Trauma Symptom Inventory in Assessing PTSD in Patients with Electrical Injury  |
| 82. PAULSON, J             | Verbal Memory and Inflammation in Veterans with PTSD, Past PTSD, and No PTSD   |
| 83. PERAZA, JR             | Does Neurocognitive Ability Predict Treatment Success for PTSD?  |
| 84. PETERSEN, J            | Diffuse Cortical Differences in Schizophrenia: A Resting-State fMRI Study  |
| 85. PIMONTEL, MA           | Cortical Predictors of Persistence of Apathy in Late-life Depression   |
| 86. PINSONNEAULT, M        | Transactional Relationships Between Vocabulary and Physical Aggression during the Transition to Formal Schooling   |
| 87. SARAPAS, C             | Relationships Between Attention and Anxiety in Low- and High- Stress Contexts  |
| 88. SULLIVAN, SK           | Impaired Effort-Cost Computation in Schizophrenia is Associated with Avolition   |
| 89. THOMAS, KR             | Predictors of Work Attainment After a Combined Treatment of Compensatory Cognitive Training and Supported Employment in Severe Mental Illness: Preliminary Results |
| 90. TIMPANO SPORTIELLO, MR | Neurocognitive Profile of Patients with Obsessive-compulsive Disorder: Role of Executive Dysfunction   |
| 91. TORRES, I              | Metacognitive Monitoring in Bipolar Disorder   |
| 92. TZOURIS, TA            | The Effect Of Hallucinations on Cognition in Alzheimer's and Parkinson's Disease   |
| 93. TZOURIS, TA            | The Effects of Hallucinations and Delusions on the Cognition of Older Adults   |
| 94. VADHAN, NP             | Acute Neurocognitive Effects of Smoked Marijuana in Prodromal Psychosis  |
| 95. WANG, NY               | The Role of Neurocognition, Psychiatric Symptoms, and Substance Use in Predicting Social and Occupational Functioning in a Marginally Housed Sample                |
| 96. WOOLVERTON, CB         | Self-imagining Improves Memory in Individuals with First-episode Psychosis   |

**10:45 AM–12:15 PM****Paper Session 12. Executive Functions/Frontal 2****Moderator: Stuart Hall****Salon ABCDE**

- |                |  |
|----------------|--|
| 1. CIRINO, PT  | A Structural Framework for Executive Functions in Children                         |
| 2. JONES, KE   | Preliminary Validation of the BRIEF-2: Examination of Profiles Among ADHD Subtypes |
| 3. ISQUITH, PK | Profiles of Everyday Executive Function with the BRIEF2                            |
| 4. ISQUITH, PK | Development and Validation of Screening Forms for the BRIEF2                       |

**10:45 AM–12:15 PM****Symposium 14. Driving is More Than Cognition: Integrating Evidence Across Neuropsychological Populations****Chair: Maria T. Schultheis****Salon F**

- |                   |  |
|-------------------|--|
| 1. SCHULTHEIS, MT | Driving is more than cognition: Integrating evidence across neuropsychological populations   |
| 2. WHIPPLE, E     | The relationship between anxiety and driving performance in combat veterans with PTSD and TBI  |
| 3. RAPHAEL, A     | The Effect of Symptom Severity on Driving in Multiple Sclerosis: The Interaction Between Cognitive and Physical Impairments in a Functional Task |
| 4. GRAEFE, AC     | Neurocognitive Mediators of Virtual Reality Driving Behaviors and ADHD Symptomatology in Young Adults  |
| 5. PATRICK, K     | Autism Spectrum Disorders and Driving: Cognitive and Social Impairment May Impact Driver Training  |

**10:45 AM–12:15 PM****Paper Session 13. Acquired Brain Injury (ABI), Child****Salon G**

- |                |  |
|----------------|--|
| 1. FABER, J    | Facial Recognition Memory and Diffusion Tensor Imaging in Children with TBI  |
| 2. WILDE, EA   | Adaptive Functioning Skills and Diffusion Tensor Imaging in Children with TBI  |
| 3. HYSENI, I   | Atypical Tractography in Children Sustaining Traumatic Brain Injury at a Young Age: The Possible Role of Plasticity                              |
| 4. WARE, AL    | Age of initial shunt operation and shunt revisions predict long-term IQ and fine motor dexterity in myelomeningocele                             |
| 5. AFSHAR, S   | Time Spent Waiting for Liver Transplantation Predicts Long-Term Cognitive Outcomes in Children with End-Stage Liver Disease                      |
| 6. MORSE, C    | The Cerebellar Cognitive Affective Syndrome: Insights from Joubert Syndrome  |
| 7. NICHOLS, SL | Associations of Memory and Executive Functioning with Academic and Adaptive Functioning among Youth with Perinatal HIV Exposure and/or Infection |

**10:45 AM–12:15 PM****Symposium 15. Resilience to Brain Aging and Alzheimer's Disease: Evidence from Imaging and Biomarker Studies****Chair: Ozioma C. Okonkwo****Back Bay (Dartmouth-Fairfield)**

- |                |  |
|----------------|--|
| 1. OKONKWO, OC | Resilience to Brain Aging and Alzheimer's Disease: Evidence from Imaging and Biomarker Studies |
| 2. VEMURI, P   | Effect of Intellectual Enrichment on AD Biomarker Trajectories                                 |



3. SOLDAN, A Relationship between Cognitive Reserve and Longitudinal Change in Cognition in Middle-Aged and Older Adults
4. RENTZ, DM Cognitive Resilience in Preclinical Alzheimer's disease: The Association of Tau and Amyloid Burden on Cognitive Performance
5. SCHULTZ, SA Cardiorespiratory Fitness Modifies the Association between a Polygenic Risk Score and CSF Biomarkers in Preclinical Alzheimer's Disease
6. BELLEVILLE, S Early- and Late-Life Cognitive Stimulation: Effects on Brain Structure and Function and Relation to Reserve Models

**12:45–2:00 PM****Poster Session 10. ABI (Adult) and Language/Speech  
Gloucester Hall****Acquired Brain Injury (TBI/Cerebrovascular Injury & Disease - Adult)**

1. ANDREWS, RJ Prediction of Neurobehavioral Symptom Inventory Total Score Using Psychological and TBI Measures
2. ASKEN, B "Playing Through It": Delayed Reporting and Removal from Athletic Activity Following Concussion Predicts Prolonged Recovery
3. BABAKHANYAN, I Construct Validity and Factor Structures of the Automated Neuropsychological Assessment Metrics
4. BALASUBRAMANIAN, V Lexical and Syntactic Processing in Left and Right Brain Damaged Adults
5. BANKS, SJ Admitted Anabolic-Androgenic Steroid Use in Professional Fighters: Relationship with Hippocampal Volume and Cognition
6. BEAULIEU, C BDNF Val66Met polymorphism effects on neuropsychological function in concussed athletes
7. BENNETT, L The Impact of Primary Playing Position and Athletic Exposure on Performance Across Cognitive Domains in Disability-Seeking Retired NFL Players
8. BLOCK, CK An Individualized Quantitative Behavioral Assessment (IQBA) Can Detect Consciousness Following Brain Injury Prior to Standardized Assessments
9. BOUCHARD, A Estimating Premorbid Intellectual Functioning in TBI Survivors with a Schizophrenia-Spectrum Diagnosis: the Clinical Utility of the Wide Range Achievement Test
10. BRYSON, CN Applying the Interpersonal Theory of Suicide to a Traumatic Brain Injury Sample
11. BUCHHOLZ, A Actual and Perceived Performance on Cognitive Tasks as Correlates of Subjective Fatigue in Traumatic Brain Injury
12. CANNIZZARO, MS Prefrontal Cortical Activity During Discourse Processing: Implications for Cognitive-Communicative Impairments
13. CHIOU, KS Functional Activation During Metacognitive Confidence Judgments After Traumatic Brain Injury
14. COOK, C Effects of Screening for Postconcussive Syndrome (PCS) on PCS Symptom Self-Report and Neuropsychological Test Performance
15. CREW, EC Acute Sleep Changes Following Sport-Related Concussion are Associated with Increased Intra-Individual Cognitive Variability on the ImPACT
16. CROCKER, LD The Role of Depression and Posttraumatic Stress Disorder Symptoms in Cognitive Functioning in Veterans with a History of Mild Traumatic Brain Injury
17. DEDERER, J Self-reported Fatigue and Cognition in Veterans with History of Concussion and PTSD
18. DOBRYAKOVA, E Investigating the relationship between depression and motivation in TBI
19. DOIRON, MJ Machine Learning Algorithms and Virtual Reality: Using Technology to Inform Our Understanding of Cognition and Driving in TBI
20. EDMUNDSON, M Impact of Mild Traumatic Brain Injury on Personality
21. EVANGELISTA, ND Brain-Derived Neurotrophic Factor (BDNF) Genotype is Related to Executive Function But Not Memory Performance in Veterans with History of Mild Traumatic Brain Injury
22. FATOORECHI, S Relationship between Performance Validity and Perceived Workload in Healthy Adults and Adults with Traumatic Brain Injury
23. FAYTELL, MP Using Disability Rating Scale Recovery Curves to Predict Performance on the PASAT After Closed Head Injury
24. FECHTER, B Examining Predictors of Growth in Traumatic Brain Injury Rehabilitation
25. FEDIO, AA Addressing Anger and Aggression during Recovery from Traumatic Brain Injury
26. FONDA, J Association between Traumatic Brain Injury and Opioid Overdose
27. FUNES, C Population Objective, Population Subjective (POPS): Gender Differences in the Importance of TBI Community ReIntegration Variables
28. GASS, CS Psychological Characteristics in Acute Traumatic Brain Injury: An MMPI-2 Study
29. GAYNOR, LS Base Rates of Concussion-like Symptoms in Healthy Collegiate Athletes: a Predictive Tool for Post-Concussive Recovery Time
30. GULLETT, JM Increased Delta Wave Sleep Associated with Central Apnea Events in Mild Traumatic Brain Injury
31. HALL, MG Motor Perseveration Predicts Ideational Perseveration on the Wisconsin Card Sorting Test
32. HAMMOND, J Bicycle Helmet Use Among College-Aged Individuals
33. JACKSON, CE Post-concussive Symptom Reporting Among OEF/OIF/OND Veterans: Comparison Between Research and Clinical Contexts
34. JONES, J White matter integrity and self-reported sleep complaints in OEF/OIF/OND Veterans with deployment-related mild TBI

35. KAKAVAND, H Cognitive Components of Verbal Encoding Deficits Following Traumatic Brain Injury
36. KAKAVAND, H Memory Process Deficits for Verbal Material in Retired Professional Football Players
37. KARK, SM Sleep Quality vs Quantity: Differential Effects on Cognitive and Functional Status in Veterans with TBI and PTSD
38. KEELAN, RE Diminished Auditory Emotion Perception Accuracy in Moderate to Severe Traumatic Brain Injury
39. KIM, RT Is Subjective Disinhibition Associated With Response Inhibition Performance in Veterans with Mild-Moderate Traumatic Brain Injury?
40. KLIMOVA, A Neural Correlates of Cognitive and Emotional Impairments in Acute Versus Chronic Mild Traumatic Brain Injury: a Diffusion Tensor Imaging Study
41. KRISHNA, R Using DTI to Narrow the Diagnosis of TBI in Cases of Global Cognitive Disorder
42. LANCASTER, M Acute White Matter Changes Following Sport-Related Concussion: A Longitudinal Diffusion Tensor and Diffusion Kurtosis Imaging Study
43. LARA-RUIZ, J Differential Association of Activity Memory Components and Memory Process Deficits Following Traumatic Brain Injury
44. LEE, Y Does Psychoeducation Promote Recovery for Patients with Persistent Concussion Symptoms?
45. LEVEILLE, E Emotion Recognition in Concussed Athletes
46. MADIGAN, N Factors Contributing to Executive Functioning Symptoms in mTBI
47. MANDERINO, L Athletes with ADHD or History of Academic Difficulties Show Intact Performance on Baseline ImPACT Testing
48. MARTIN, R Effect of Modifications in ICD-10 Criteria on Diagnostic Rates for Post-Concussive Syndrome
49. MAXWELL, K Examining Psychological Diagnoses and Memory Performance in Relationship with Performance Validity within Veterans Presenting with History of Mild Traumatic Brain Injury (mTBI)
50. MELLINGER, M Assessment and Remediation of Adult Abulia Following Severe Traumatic Brain Injury in Infancy
51. MERZ, Z Exploratory Analysis of the Reintegration to Normal Living Index in a Stroke Population
52. MIELKE, JB Correlation of the ToPF and the WAIS-IV IQ scores in a High Functioning, Active Duty, Military Population
53. MILLER, D White Matter Abnormalities in Blast-Related mTBI are Associated With an Overall Index of Cognitive Impairment
54. MONCRIEF, GG Cognitive Reserve and Postconcussive Symptoms Reported by Blast Exposed Operation Enduring Freedom/Operation Iraqi Freedom (OEF/OIF) Veterans
55. MOORE, R Engagement in an Active Lifestyle is Associated with Better Neurocognitive Functioning Among Veterans with Mild Traumatic Brain Injury
56. NAYLON, K Impact of Cognitive Fatigue on Reported Post-Concussive Complaints
57. O'CONNOR, TA The Impact of Traumatic Brain Injury and Aggregate Comorbidities on Cognitive Functioning in a Marginally Housed Sample
58. OHLHAUSER, L Predictors of Length of Hospital Stay, Rate of Functional Improvement, and Functional Abilities at Discharge Following Stroke
59. OSBORNE-CROWLEY, KL Can Reversal Learning Deficits Explain Social Disinhibition Following Severe Traumatic Brain Injury?
60. OSBORNE-CROWLEY, KL Hyposmia, But Not Emotion Perception Impairment, Predicts Psychosocial Outcome after Severe Traumatic Brain Injury
61. PAXTON, J Executive Control and Memory Acquisition in Traumatic Brain Injury
62. PETERSON, SK Attention and Working Memory in OEF/OIF/OND Veterans with Mild Traumatic Brain Injury
63. PISNER, D Resilience Following Mild Traumatic Brain Injury is associated with Gray Matter Volume in the Left Precentral Gyrus
64. RAU, HK Intra-individual Variability on Neuropsychological Measures in OEF/OIF/OND Veterans: Associations with Blast-related mTBI and PTSD
65. ROBINSON, ME Close-Range Blast Exposure is Associated with Greater Clinical Burden
66. ROTHONG, N Neuropsychological Associations of Mild Traumatic Brain Injury and Psychopathology
67. SAMARINA, V Cognitive, Somatic, and Emotional Changes in Patients with Mild Traumatic Brain Injury (mTBI) and Orthopedic Injuries at Baseline and 3 Months Post-Injury
68. SANDERSON-CIMINO, M Use of the TOMM Response Consistency Indices in Veterans with History of Mild Traumatic Brain Injury and PTSD
69. SINGH, P Time Dependent Differences in Gray Matter Volume in Individuals Post Mild Traumatic Brain Injury: A Voxel Based Morphometric Study
70. SULLAN, M The relationship between post-concussive sleep symptoms and recovery time in Division 1 collegiate athletes
71. TATE, DF Subjective Reports of Cognitive Dysfunction and Objective Neuropsychological Test Results Among Active Duty Service Members
72. TERRY, DP Microstructural White Matter Changes in Non-Professional Football Players 20-45 Years After Two or More Concussions
73. VAKIL, E Title: Direct and indirect measures of context in patients with moderate-to-severe Traumatic Brain Injury (TBI): The additive contribution of eye tracking
74. VAN PATTEN, R Predicting Return to Work at Six-Month Follow-up in Mild to Moderate Stroke Patients: The Relative Importance of Physical Disability and Neurocognitive Functioning
75. VELEZ, CS Base Rates Neuropsychological Performance in Service Members with Mild TBI, PTSD and Orthopedic Controls

76. VYNORIUS, KC Lifetime Multiple Mild Traumatic Brain Injuries are Associated with Cognitive and Mood Symptoms in Young Healthy College Students
77. WALKER, KA Total Sedation and Delirium are Related to Memory Functioning, but Not General Cognition, in Critically Ill ICU Patients at Time of Discharge
78. YEE, MK Multiple Self-Reported Brain Injuries are Associated with Increased Health Symptoms in a Cohort of 1990-1991 Gulf War Veterans
79. YEE, MK Self-Reported Exposures to Mild Traumatic Brain Injury and Neurotoxicants Predict Current Total Health Symptoms in a Cohort of 1990-1991 Gulf War Veterans
- Language and Speech Functions/Aphasia**
80. DANGUECAN, A Challenging the Phonological/Deep Dyslexia Continuum: A Case Study
81. FONG, A Do Bilinguals Have an Advantage in Learning a New Language?
82. JOHNSON, JP Evaluating Responsiveness to Treatment and Generalization in Patients with Acquired Reading and Writing Deficits
83. LAI, PT Language and Prosodic Measures in Typically Developing Children and Children with High Functioning Autism
84. LEVÄNEN, S Influence of Visual Speech on Audiovisual Speech Perception in Language-Impaired Children
85. LOPEZ, AR Sustainable Language Production in Typically Developing Children and Children with Focal Lesions
86. PILLAY, SB Brain Regions Mediating Recovery of Word Reading in Phonological Aphasia: An Event-Related fMRI Study
87. PURDY, M The Impact of Dichotic Listening Training on Auditory Comprehension in Aphasia
88. SAVOIE, J Boston Naming Test Performance among French-speaking Acadians in Canada
89. STINSON, JM Logopenic Progressive Aphasia in Patient with Meningioma: Neuropsychological Evaluations Over Time

**1:00–2:30 PM**

**Symposium 16. Disentangling Autism Symptomology Across Pathologies: Investigations of Shared Phenotypic Traits**  
**Chair: Brian Willoughby**  
**Salon ABCDE**

1. WILLOUGHBY, B Disentangling Autism Symptomology Across Pathologies: Investigations of Shared Phenotypic Traits
2. COMAN, D Sensory Abnormalities Beyond Autism Spectrum Disorders (ASD): An Investigation of a Shared Phenotypic Trait Across Other Major Psychiatric and Neurodevelopmental Conditions
3. PINEDA, J Investigation of Restricted and Repetitive Behaviors Across Clinical Populations
4. DOOLEY, K Autism Spectrum Disorder Diagnosis as a Potential Moderator of the Relationship Between Social Impairment and Externalizing/ Internalizing Problems

**1:00–2:30 PM**

**Symposium 17. Predictors and Outcomes of Pediatric Concussion: Insights from the Prospective, Multicenter 5P Project**  
**Chair: Miriam H. Beauchamp**  
**Salon F**

1. BEAUCHAMP, MH Predictors and Outcomes of Pediatric Concussion: Insights from the Prospective, Multicenter 5P Project
2. BEAUCHAMP, MH Predictors of Neuropsychological Outcome after Pediatric Concussion
3. KEIGHTLEY, M Neuromuscular and Neuromotor Performance following Pediatric Concussion
4. BROOKS, B Psychological Functioning after Pediatric Concussion
5. YEATES, KO Neuropsychological Functioning as a Predictor of Quality of Life after Pediatric Concussion

**1:00–2:30 PM**

**Paper Session 14. Dementia 2**  
**Moderator: Maxine Krengel**  
**Salon G**

1. BLANKEN, AE Endophenotypes of Preclinical Alzheimer's Disease Empirically-Derived from Both Cognitive and Cerebral Spinal Fluid Biomarkers
2. HASSENSTAB, J CSF Biomarkers and Cognitive Decline in Autosomal Dominant Alzheimer's Disease
3. TRIVEDI, MA APOE genotype effects on resting state functional connectivity of the default mode network in middle-aged individuals with a parental history of Alzheimer's disease
4. MINOR, A Social and cognitive factors relate to the presence of subjective cognitive decline in non-demented older adults
5. NADKARNI, NK The Cognition-Mobility Interface is Associated with Cerebral Amyloid Deposition in Clinically Normal Older Adults
6. COLEMAN, BW Subjective Cognitive Complaints Predict Conversion to MCI and Alzheimer's Disease Dementia
7. JEFFERSON, AL Lower hematocrit and hemoglobin values relate to worse cognitive performance in older adults: The Vanderbilt Memory & Aging Project



# 50th Anniversary of INS

# 50 YEARS

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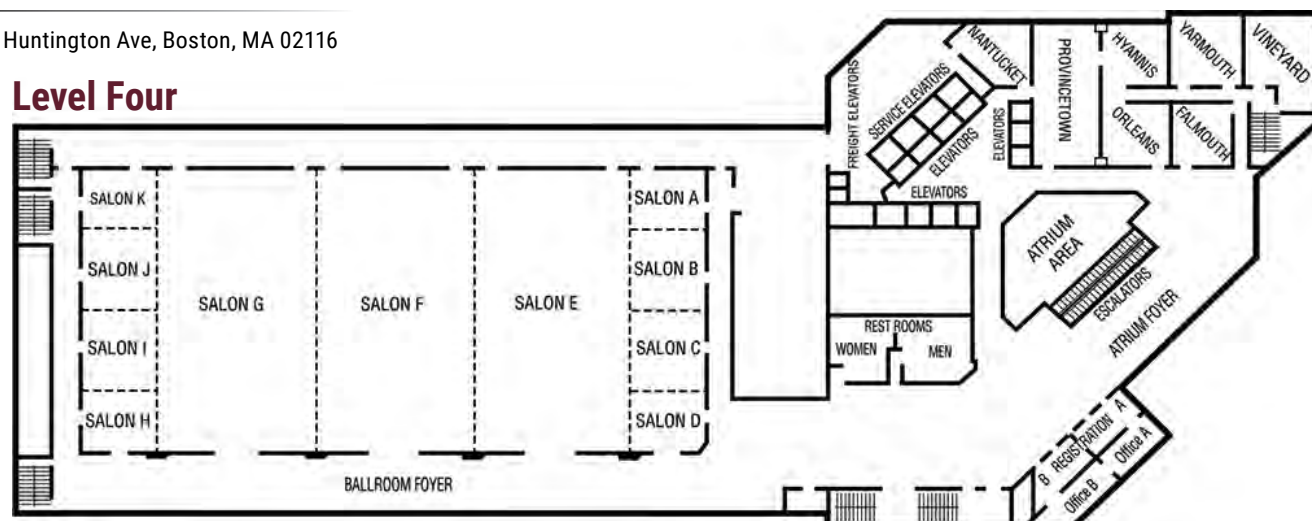
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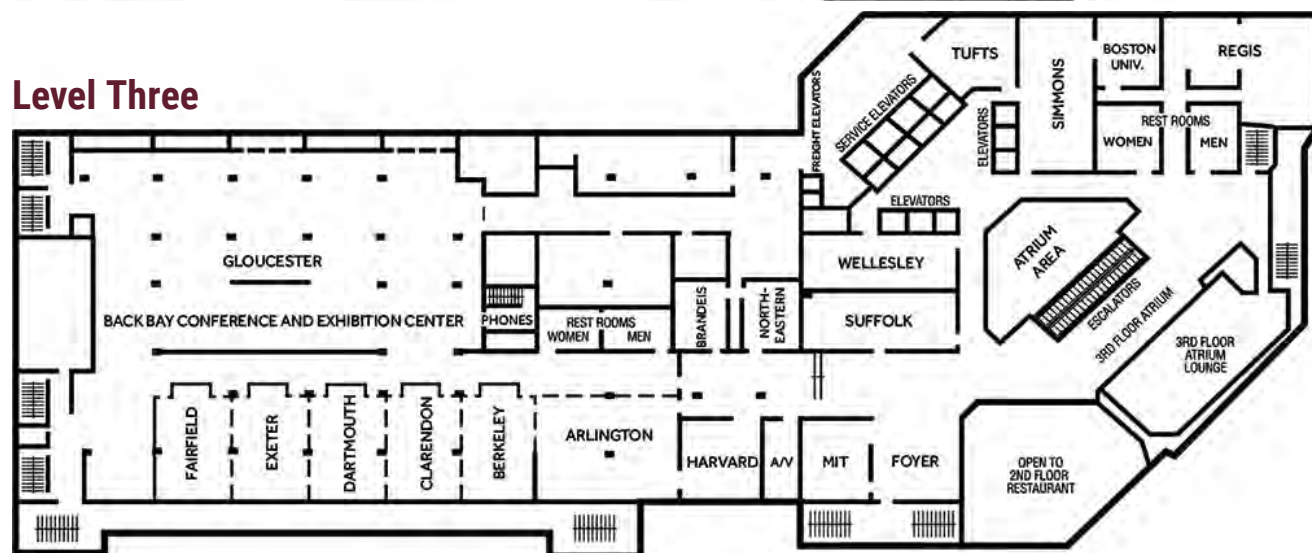
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