Greetings from the CNS Section Chair
Sean Stocker, Ph.D.
Penn State College of Medicine, Hershey, PA.  sstocker@hmc.psu.edu

Our section continues to grow and build upon past success. In the past year, we have built a strong relationship with The Journal of Neurophysiology (http://jn.physiology.org/, Bill Yates, Editor-In-Chief). In 2015, our section established a new CNS Trainee Endowment to sponsor trainee-related activities for neuroscientists. As a result, we have programmed a new trainee symposium for the 2016 Experimental Biology Meeting (see below). Finally, section terms for several committee members will end in 2016. Please contact me if you are interested to become involved within APS or the CNS section.

A highlight of the annual Experimental Biology Meeting is the Joseph Erlanger Distinguished Lectureship. In 2015, we had an exceptional speaker, Karl Deisseroth followed by a special symposium sponsored by the Journal of Neurophysiology. The 2016 Experimental Biology Meeting should be as exceptional as this past year’s meeting. Dr. Quentin Pittman will present novel and impactful findings regarding the neuroplastic changes associated with stress. Immediately following the Joseph Erlanger Lecturer, the CNS Section will sponsor a “trainee-related symposium” programmed from abstracts submitted to the CNS section. This special symposium is made possible by generous donations from our membership to establish the CNS Trainee Endowment. Selected abstracts will give an oral presentation and receive a small travel award. Please submit your abstracts!!!

2016 Joseph Erlanger Distinguished Lectureship of the APS Central Nervous System Section

“Immune Stress and the Brain: Synaptic Substrates of Sickness”
Quentin J. Pittman
University of Calgary

San Diego Convention Center, Room 23
Monday, April 4, 2016; 3:15 PM-4:15 PM
Special CNS Trainee Symposium
Abstracts with trainees listed as first author will be selected by the Erlanger Lecturer. The CNS Trainee Symposium is supported by the newly established CNS Trainee Endowment.

San Diego Convention Center, Room 23
Monday, April 4, 2016; 4:15 PM-5:15 PM

CNS Section Reception
A reception to recognize Dr. Pittman and CNS trainee award winners will immediately follow the session.

Congratulations to the CNS Section Members who were recently selected for the inaugural class of Fellows of the American Physiological Society:

Susan M. Barman
Floyd E. Bloom
Carmine D. Clemente
Charles Douglas Gilbert
Sten E. Grillner
Riitta Hari
David J. Linden
Ida J. Llewellyn-Smith
Eve Esther Marder

Marcus E. Raichle
Ann M. Schreihofer
Gordon M. Shepherd
Celia D. Sladek
Peter L. Strick
J. Michael Wyss
Masashi Yanagisawa
Bill J. Yates
Beverly Petterson Bishop Award for Excellence in Neuroscience

Beverly Petterson Bishop, PhD served as a faculty member at the University at Buffalo for over 50 years. She was a Distinguished Teaching Professor of Physiology and Biophysics at SUNY and her research focused on the role of the nervous system in the control of muscle activity and respiration in the intact behaving animal including human subjects. She was an active member of APS and involved in the CNS and NCAR sections. This award is established in her honor to recognize excellence in neurophysiology research. For more on her life and research please visit the Living History on the APS website: http://www.the-aps.org/mm/Membership/Living-History/Bishop

Award: $20,000
Contact: Executive Office
Deadline: November 13

The Beverly Petterson Bishop Award recognizes excellence in neuroscience/neurophysiology research. The award is given to an investigator who holds an academic rank no higher than assistant professor. The award is presented annually to an individual demonstrating outstanding promise based on his/her program in neuroscience/neurophysiology research. Each recipient receives a $20,000 award designated for use in their research program. The award is announced during the APS Business Meeting held at the Experimental Biology meeting and at the Central Nervous System (CNS) and/or the Neural Control and Autonomic Regulation (NCAR) Section Dinner. The recipient receives complimentary registration to attend the meeting and a certificate recognizing his/her designation as a Beverly Peterson Bishop Awardee. Applications are accepted from APS members in good standing who are performing neuroscience research. The selection committee will be comprised of representatives from the CNS and NCAR sections. The award does not include any indirect cost reimbursement.

http://www.the-aps.org/mm/awards/Other-APS-Awards/Early-Career-Professional#Bishop

Support the CNS Trainee Endowment Fund

Recently, the CNS Steering Committee established the CNS Trainee Endowment Fund through the American Physiological Society’s matching funds program. Through this program, APS will match every donation made to the CNS Trainee Endowment Fund (if you donate $10, APS will donate an additional $10). The interest moneys generated from this account will support new awards, travel, and other section activities specifically-designed for graduate students, postdoctoral fellows, and junior investigators.

Please follow the link:

Donations are Tax-Deductible!!!
CNS Programming; Joint Programming Committee

Kirsteen Browning, Ph.D.

CNS Featured Topics and Symposia

CNS Symposium: Tuesday, 4/5/16, 8:00 AM
Building Neural Circuits: Wiring and Experience
Chair: Stephen D. Van Hooser and Jianhua Cang
Speakers: Hollis T. Cline
Andrew D. Huberman
Jinhua Cang
Stephen D. Van Hooser

CNS Symposium: Sunday, 4/3/16, 10:30 AM
The Spinal Control of Motor Output: From Neural Circuits to Mechanics
Chair: T. Richard Nichols and Alain Frigon
Speakers: Ole Kiehn
Charles J. Heckman
Alain Frigon
Ilya Rybak

Submit abstracts to CNS Section Categories

Abstracts submitted for Featured Topics will be included in the poster category listed below. A subset of these abstracts will also be selected for oral presentations in our Featured Topic sessions. Categories for abstract submission to poster sessions sponsored by the CNS section are also listed below.

Abstract submission categories for the CNS Section

The CNS featured topics this year are:

1080-APS Breathing Disturbances in Neurological Disorders
1081-APS Novel mechanisms at the level of the solitary tract nucleus (NTS)

Posters:

1082-APS Astrocyte and neuroglial interactions
1083-APS Blood-brain barrier, brain blood flow and metabolism
1084-APS Brain development and aging
1085-APS Central nervous system: other
1096-APS Central regulation of body fluid homeostasis
1087-APS Central regulation of food intake and body weight
1088-APS Cognition and behavior
1089-APS Neuroendocrinology/neuroimmunology
1090-APS Neuroexcitability, neurotransmission and neuroplasticity
1091-APS Neuroinflammation/neuroprotection/ischemia
1092-APS Neurotransmission and signaling molecules
Richard Wainford, Ph.D.
Chair, CNS Section Awards Subcommittee
The CNS Section Awards include the New Investigator Award, the Research Recognition Award and the Van Harreveld Memorial Award. All awardees must attend the Experimental Biology meeting in order to collect their awards, which will be presented at the CNS Section reception. **Application materials for all awards must be completed and submitted online by Nov. 13, 2015.** Go to the CNS Section Awards Page ([http://www.the-aps.org/mm/awards/sections/cns](http://www.the-aps.org/mm/awards/sections/cns)) to apply. Please adhere to all eligibility and submission requirements as detailed for each award. Note that APS members can apply for multiple awards each year, BUT applicants are only eligible to receive ONE abstract-based award from the APS each year. Please contact the CNS Section Awards Chair, Dr. Wainford (rwainf@bu.edu), with questions regarding CNS Section Awards.

<table>
<thead>
<tr>
<th>Award Eligibility</th>
<th>Van Harreveld Memorial Award</th>
<th>Research Recognition Award</th>
<th>New Investigator Award</th>
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<tr>
<td>1st author on an abstract submitted to Experimental Biology</td>
<td>Graduate student</td>
<td>Postdoctoral fellow or equivalent position awarded PhD or other professional degree within the past 10 years</td>
<td>Investigator not above the rank of Assistant Professor (or equivalent position in a research track at an academic institution or industry).</td>
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<tr>
<td>1st author on an abstract submitted to Experimental Biology</td>
<td>1st author on an abstract presented as a poster submitted to Experimental Biology or invited to talk at Experimental Biology</td>
<td>Made meritorious contributions to scientific areas related to CNS section</td>
<td>Must attend Experimental Biology and present an oral or poster presentation</td>
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<tr>
<th>Membership Requirements</th>
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<th>Research Recognition Award</th>
<th>New Investigator Award</th>
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<td>Recommended</td>
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<td>Member in good standing CNS primary affiliation preferred</td>
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<tr>
<th>Submission Requirements</th>
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<tr>
<td>Upload a copy of submitted abstract to online awards submission site (see above)</td>
<td>Upload copy of submitted abstract (or a research description if presented in a featured topic session), a letter describing research novelty, notification of the year of PhD award, current position and whether an APS member to online awards submission site (see above)</td>
<td>Upload curriculum vitae, 2 nomination letters from regular APS members &amp; 3 reprints to online awards submission site (see above)</td>
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<tr>
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<td>$500 plus reimbursement of advanced Experimental Biology registration fee</td>
<td>$500 plus reimbursement of advanced Experimental Biology registration fee</td>
<td>$1000 plus reimbursement of advanced Experimental Biology registration fee</td>
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Training Advisory Committee

Brendan J. Dougherty, PT, PhD; CNS Representative

Greetings Trainees! We hope you will be joining us in San Diego, CA for EB 2016! There are many fantastic programs and sessions designed specifically with you in mind. Be sure to check in at the CNS Section Reception and Awards Presentation, an excellent (and free!) opportunity to get reacquainted with old friends, make new ones, and network with the scientists in our section. The Reception will be held Monday, March 30th at 5:30pm. In addition, trainees are invited to the 2016 Meet the Nobel Laureate Reception at EB 2016. This is a wine and cheese reception to honor Dr. Roger Tsien, the 2008 recipient of the Nobel Prize in Chemistry. The reception will take place immediately following the APS Nobel Prize Lecture. Check out ExperimentalBiology.org for details.

This year, the APS Trainee Advisory Committee will host the second annual Trainee and Early Career Cross Sectional Featured Topic, “Sex Differences in Health and Disease”. This special session will feature presentations by graduate students, postdoctoral fellows, and early career scientists (within 5 years of faculty appointment or government/industry equivalent) and will be held on Wednesday morning, April, 6th. We encourage all trainee members of the CNS section with research in this area to consider participating! Stay tuned for a formal call for abstracts and for a more detailed list of trainee-related events in the Spring Newsletter.

And speaking of Awards! Don’t forget to apply for the APS Trainee-related awards offered annually at EB such as, The Caroline tum Suden/ Frances Hellebrandt, Horvath, David Bruce, or Fleur L. Strand (among others!).

Finally, we are diligently looking to expand the opportunities for trainee members to get involved with the CNS Section. These opportunities will include programming of future trainee-related events at Experimental Biology, social media content development, and establishing networking/mentorship experiences. Keep your eyes open for emails in the coming months!

Additional Trainee Resources:

• Subscribe to receive the Trainee Newsletter by sending an email with “Sign me up for Trainee eNewsletter” in the subject line to: Education@The-APS.org or go to http://www.the-aps.org/mm/hp/Audiences/Students/GraduateMedical-Students

• Join the “APS Trainees” and “American Physiological Society” groups on Facebook.
Physiologists in Industry Committee (PIC)

James Herrington, Ph.D.; CNS Representative

The Physiologists in Industry Committee is sponsoring an exciting symposium at EB 2016 - “Metabolic Syndrome & the Pathway of Drug Development: from Bench to Bedside.” Metabolic syndrome refers to the clustering of 3 or more cardiovascular risk factors including diabetes, hypertension, obesity, and dyslipidemia. Heart disease still remains the leading cause of death in the world and people with metabolic syndrome are twice as likely to suffer a heart attack and five-fold more likely to develop type 2 diabetes. According to the International Diabetes Federation, 25% of the world’s adult population has metabolic syndrome. Significant advancements in the understanding of the cellular, molecular, and neural signaling pathways regulating metabolism have been made over the last several decades, providing the foundation to formulate novel therapeutic strategies. This symposium will cover the basic research and necessary steps from discovery, development, safety, and the clinical trials required for regulatory approval of drugs to treat metabolic syndrome. Stay tuned for the list of speakers!

Join the CNS steering committee!
The CNS section steering committee is looking for people to become involved in the APS and represent CNS-related research to the Society. If interested contact Sean Stocker sstocker@hmc.psu.edu or any member of the committee! Individuals can self-nominate.
# CNS Section Steering Committee

**Chair and Section Advisory Committee Representative (2016)**  
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**CNS Trainee Representative (2016)**  
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Email: shaun.patel@me.com

**Ex-Officio Members**  
Ann Schreihofer (Section Advisory Committee)  
Bill J. Yates (Animal Care and Experimentation and Editor-In-Chief Journal of Neurophysiology)  
Susan Barman (Chair, Beverly Bishop Neuroscience Award)  
William Martin (APS Finance Committee)  
Scott Carlson (AAAS, Biology Rep)  
T. Richard Nichols (Animal Care and Experimentation)  
Glenn Toney (Science Policy/Advocacy)  
Ida J. Llewellyn-Smith (Chair, APS Awards Committee)  
Margarita Curras-Collazo (Porter Committee)  
Janice H. Urban (Beverly Bishop Committee)