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

As Chair of the Central Nervous System Section for the past 3 years, I have thoroughly enjoyed the opportunity to work with CNS members and facilitate our growth. Moving forward, I have no doubt that our section will be in the exceptional hands of Dr. Kirsteen Browning (Penn State COM, kirsteenbrowning@hotmail.com). She has served as Chair of the CNS Awards Committee (2011-2014) and currently serves as the CNS Joint Programming Representative for the Experimental Biology Meeting (2014-present). Richard Wainford (Boston University) will replace Kirsteen as our programming representative. Due to recently approved changes to our bylaws, Kirsteen will serve as Chair-Elect over the next several months and then serve a 3-year term as Chair. The bylaw changes also create several new positions for CNS members to become involved in our section. Please email myself (sds33@psu.edu) or Kirsteen to become involved.

A major endeavor of the CNS section over the past 18 months has been to establish and grow the CNS Trainee Endowment. I would like to personally thank those individuals who have contributed to the endowment this past year. These funds will support a new and annual trainee mini-symposium to follow the Joseph Erlanger Distinguished Lectureship. Please consider a tax-deductible donation at: https://ebus.the-aps.org/ebusprod/OneClickDonation.aspx?ProductId=2068062.

Amy Arnold  Andrei Derbenev  William Martin  Alberto Travagli
Susan Barman  Scott Edwards  Steve Mifflin  Janice Urban
Gene Bidwell  Alain Frigon  Ann Schreihofr  Richard Wainford
Kirsteen Browning  Dana Garcia  Ida Llewellyn-Smith  J. Michael Wyss
Qing-Hui Chen  Patrice Guyenet  Sean D. Stocker
Maggie Curras-Collazo  Elise Gomez-Sanchez  Glenn Toney

A highlight of every spring is the annual Experimental Biology Meeting and our Joseph Erlanger Distinguished Lectureship. I would like to encourage everyone to join us on Monday April 4th for the Lectureship and CNS Award and Social Event (see below).
Programming Highlights for EB 2016
Kirsteen Browning, Ph.D.

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

CNS Trainee Minisymposium
Chairs: Quentin Pittman & Brendan Dougherty
San Diego Convention Center, Room 23
Monday, April 4, 2016; 4:15 PM-5:15 PM

• Neonatal Maternal Separation Increases Microglial Activation in Brainstem Regions Controlling the Laryngeal Chemoreflex
  Cecile Baldy - CHU de Québec, Laval Univ.

• Dopamine System Regulation of Inhibition in an Animal Model of Interneuron Transcriptional Dysregulation and Hippocampal Circuit Dysfunction
  Lillian Brady - Univ. of Alabama at Birmingham.

• Inhibition of Endocannabinoid Degradation Improves Recovery of Neurobehavioral Function and Resolution of Neuroinflammation and Synaptic Hyperexcitability in a Rodent Model of Traumatic Brain Injury

• Depletion of Brain Perivascular Macrophages Mitigates Depressive-Like Behavioral Consequences of Chronic Mild Stress

CNS Section Awards and Social
San Diego Marriott Marquis & Marina Hotel, San Diego Ballroom C
5:30 - 7:30 PM
*Free drinks and food (no registration is required).
CNS Section Newsletter – Spring, 2016

CNS Section Featured Topics and Symposia

Sunday, 4/3/16, 10:30 AM – 12:30 PM (Room 28B)
The Spinal Control of Motor Output: From Neural Circuits to Mechanics
Chair: T. Richard Nichols and Alain Frigon
- Start and stop: a matter of excitation
  Ole Kiehn — Karolinska Institute
- Reverse engineering of motor output to identify the synaptic organization of motor commands
  Charles J Heckman — Northwestern University
- The spinal control of left-right coordination from simple to extreme conditions
  Alain Frigon — Université de Sherbrooke
- Locomotor CPG and speed-dependent gait control: Insights from computational modeling
  Ilya Rybak — Drexel University

Tuesday, 4/5/16, 8:00 AM – 10:00 AM (Room 28A)
Building Neural Circuits: Wiring and Experience
Chair: Stephen D. Van Hooser and Jianhua Cang
- Choosing which way to go: development of direction selectivity in visual cortex
  Stephen D Van Hooser — Brandeis University
- Binocular matching and critical period plasticity in the mouse visual cortex
  Jianhua Cang — Northwestern University
- Molecules and mechanisms that assemble functionally specialized visual pathways
  Andrew D Huberman — University of California-San Diego
- Experience-dependent development of visual circuitry in Xenopus
  Hollis T Cline — Scripps Research Institute

Tuesday, 4/5/16, 3:15 PM – 5:15 PM (Room 27)
Novel Mechanisms at the Level of the Solitary Tract Nucleus (NTS)
Chair: Stuart McDougall
- Spontaneous neurotransmission in the NTS conveys circuit state
  James Peters — Washington State University
- Adult neurogenesis in the NTS; a role in hypertension?
  Song Yao — Florey Institute

Wednesday, 4/6/16, 8:00 AM – 10:00 AM (Room 25c)
Breathing Disturbances in Neurological Disorders
Chair: Thiago S. Moreira
- Breathing challenges in Rett syndrome: lessons learned from humans and animal models
  Jan M Ramirez — Seattle Children’s Research Institute
- Breathing disturbances in neurodegenerative disorders
  Mathias Dutschmann — Florey Institute
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. It all starts with the 2016 Joseph Erlanger Distinguished Lectureship of the APS Central Nervous System Section being held on Monday, April 4th at the San Diego Convention Center (Rm 23) from 3:15 – 4:15pm. This year’s Distinguished Lectureship will be given by Dr. Quentin J. Pittman of the University of Calgary and you will not want to miss it! This will be followed immediately by the Special CNS Section Trainee Symposium from 4:15 – 5:15pm, featuring short presentations by CNS section trainees and supported by the CNS Trainee Endowment. Then 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 immediately following the Erlanger Lecture and Trainee Symposium, from 5:30pm to 7:30pm.

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 on Wednesday, April 6th, at 4:45PM.

This year, the APS TAC 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 Monday morning, April, 4th from 8:00 – 10:00AM in Rm. 20A of the San Diego Convention Center. We encourage all trainee members of the CNS section with research in this area to attend! If you are unsure of which direction your career might be heading, we also encourage you to attend the TAC Symposium entitled “Now Hiring PhD’s: Post-Doc Not Required” on Wednesday morning, April 6th from 10:30AM – 12:30pm in Rm. 22 of the Convention Center.

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!

Brendan

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
James Herrington, Ph.D., TAC Representative

The Physiologists in Industry Committee is sponsoring an exciting Symposium at EB2016, San Diego, entitled “Metabolic Syndrome and the Pathway of Drug Development; From Bench to Bedside” on Sunday, April 3, 10:30–12:30pm at San Diego Convention Center, Room 22. This symposium focuses on the known risk factors involved in the Metabolic Syndrome. It will also cover basic research and various steps (ranging from early drug discovery, applied preclinical, development, safety, and the clinical and regulatory hurdles) that are required to get a drug from conception to FDA approval. This symposium will provide a great opportunity for interaction and knowledge exchange between our academia and industry colleagues. This section will be chaired by Matthew R. Zahner, Ph.D. and co-chaired by Denise C. Cornelius, Ph.D. who is our 2015 PIC Novel Disease Model Award Postdoctoral recipient. Looking forward in seeing you all at the EB2016 PIC Symposium.

The PIC Novel Disease Model Award is sponsored by Novo Nordisk Research Centre China, a world leader in developing innovative treatments for Diabetes. The PIC Novel Disease Model Award will grant a $500 and $800 award to a graduate student and a postdoctoral fellow, respectively, who submit the best abstracts at EB 2016 that describe a novel disease model. The awardee for predoctoral student is Renato Gaspar, Federal University of Maranhão, Sao Luis, Brazil for his abstract entitled “Polycystic Ovary Syndrome Phenotype in Hyperinsulinemic but Normoandrogenic Monosodium L-Glutamate Obese Rats” and the awardee for postdoctoral student is Kavaljit Chhabra, Ph.D., University of Michigan, Ann Arbor, MI for his abstract “Hypothalamic Pomp-deficiency Impairs the Function of Leptin to Decrease Food Intake and Bodyweight” Both awards will be presented at the APS Business Meeting (Tuesday, April 5, 5:45-7:15pm, San Diego Convention Center, Room 20A).

You're invited! Come meet, eat and socialize with your fellow Physiologists who are working in the corporate, industrial, academic, or government sector. The 15th Annual Physiologists in Industry Committee Mixer will feature free hors d’oeuvres along with information on the roles of Physiologists in Industry. It will be held at the San Diego Marriott Marquis & Marina (Sunday, April 3, 6:45 – 8:00 pm, Malibu Room). This is a great opportunity to network with industry and academic APS members alike – we hope to see you there!

Finally, the annual APS PIC meeting is scheduled on Sunday, April 3, 2:30 - 4:00 pm in the San Diego Marriott Marquis & Marina, Carlsbad Room – this is the committee’s annual opportunity to have a face-to-face meeting to discuss committee business and new initiatives. Please feel free to contact your PIC section representative if there are issues to be brought to the attention of the PIC.
New Award: A Clifford Barger Underrepresented Minority Mentorship Award

The APS Porter Physiology Development and Minority Affairs Committee would like to announce the inaugural A Clifford Barger Underrepresented Minority Mentorship Award. This award honors a member of the American Physiological Society who is judged to have demonstrated leadership, guidance, and mentorship of underrepresented minority students in the physiological sciences.

The awardee receives a $1,000 check, plus reimbursement of Experimental Biology (EB) travel expenses (up to $1,500) and registration. A commemorative plaque is given at EB during the APS Business Meeting. Each awardee will present a webinar to discuss their best practices for fostering the scientific, professional and personal development of their URM trainees, and also submit an article on the topic of mentoring to the Physiologist.

Applications are due on September 15, 2016. Flyers and brochures will be available at EB, and a slide promoting this award will be present at EB Symposia. More information about the award and application materials can be found at: http://www.the-aps.org/barger

Neural Mechanisms in Cardiovascular Regulation: Novel Research and Disease Treatment Strategies

July 17-22, 2016
Saxtons River, Vermont

Visit www.faseb.org/SRC for Registration Information

CNS Section Newsletter – Spring, 2016

Session Highlights

Instrumentation-Based Therapies: Novel mechanisms of Action

New Genetic Technologies to Explore Cardiovascular Disease Mechanisms

Novel Mechanisms of Neuro-Immune Interaction

Mechanisms Linking Mood Disorders & Cardiovascular Disease

Hypoxia: Do Neuroprotective Adaptations Also Drive Neuronal Hyperactivity?

Key Note Speaker
Murray Esler, M.D.
CNS Section Steering Committee

Chair and Section Advisory Committee Representative (2016)
Sean D. Stocker
Penn State College of Medicine
Phone: 717-531-0003 (x285573)
Email: sstocker@hmc.psu.edu

Past-Chair (2016)
J. Michael Wyss
University of Alabama
Phone: 205-934-6086
Email: jmwyss@uab.edu

Secretary-Treasurer (2018)
Gene L. Bidwell, III
University of Mississippi Medical Center
Phone: 601-984-6787
Email: gbidwell@umc.edu

Committee on Committees Representative (2018)
R. Alberto Travagli, Ph.D.
Professor
Penn State College of Medicine
Phone: 717-531-5144
Email: travagli7@hotmail.com

Section Program Committee Chair
Joint Program Committee Representative (2017)
Kirsteen N. Browning
Penn State College of Medicine
Phone: 717-531-0003 (x285573)
Email: sstocker@hmc.psu.edu

Awards Subcommittee Chair (2017)
Richard Wainford
Boston University School of Medicine
Phone: 617-414-2648
Email: rwainf@bu.edu

Member-At-Large (2015)
Vladimir Parpura, MD, PhD
University of Alabama
Ph: 205-996-7369
Email: vlad@uab.edu

Member-At-Large (2017)
Annelyn Torres-Reviron, PhD
Ponce School of Medicine and Hlth Sciences
Ph: 787-840-2575 x2160
Email: antorres@psm.edu

Physiologists in Industry Committee Rep (2015)
James (Jim) Herrington
Genentech, Inc.,
Phone: 650-225-1258
Email: herrington.james@gene.com

Trainee Advisory Committee Representative (2016)
Brendan Dougherty
University of Wisconsin-Madison
Phone: 617-672-1738
Email: shaun.patel@me.com

CNS Trainee Representative (2016)
Shaun Patel
Massachusetts General Hospital
Phone: 617-672-1738
Email: shaun.patel@me.com

Ex-Officio Members

Ann Schreinhofer (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)

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.