Greetings from the CNS Section Chair

Mike Wyss, Ph.D.
University of Alabama, Birmingham, Alabama
jmwyss@uab.edu

We have a Chair, well perhaps that is not as big of an announcement as the election of Francis I, but for CNS it marks another step forward in the progression of the CNS Section. For the past 20 years the CNS section has had many exceptional Chairs and Sean Stocker will be another in this line. Each of the past Chairs has moved the section to new heights and begun important new initiatives for the section. Further, each of the past Chairs has been an active leader in the APS after leaving the Chair. Celia Sladek, Bruce Lindsey, Sue Barman, Bill Martin and Ann Schreihofer have served both the section and APS well. Interestingly, Sue, Ann and I will all sit on the APS Council for the next year, as will APS Councilor Ida Llewellyn-Smith. Further, Bill Martin was just appointed to the very important APS Finance Committee for a three year term. I would like to thank all of them for their past and continuing service and encourage all of you to increase your involvement in moving the CNS section and APS forward in the 21st century. We are all thankful to Sean for taking on the task of moving us forward for the next 3 years.

We encourage all of you to start thinking about service on the Section and/or APS committees. Steve Mifflin did a great job in getting our members on APS committees for the past 3 years and Tony Verberne will continue assisting CNS members as the new CNS representative to the Committee on Committees. But, you have to nominate yourself for one of the committees. Tony can assist in this process, as can all the members of the Section’s Steering Committee. See the last page of the newsletter for a full listing of all CNS members who are serving on committees at this time. Nominations for committees will be received in the fall, but EB is the time for you to think about committee service and talk to those already on the committees. Also, please go to www.the-aps.org/committees/ to learn more about the opportunities that await you as a committee member. I can guarantee you that APS committee service is very rewarding and you learn much that is useful in your education, research and service career.

Charles Bourque will be the Joseph Erlanger Lecturer this year, and several other CNS symposia and featured topics are outlined in the JPC report from Sean Stocker. EB 2013 Boston will also be special because the CNS section’s own Sue Barman will preside as President of the APS.

The EB 2013 website provides great information about the meeting and allows you to register and importantly make your hotel reservations, if you have been a slacker. Also, please attend the CNS Section Reception following the Erlanger Lecture on Monday, April 22nd, 5:30 pm in the Pacific Grand Ballroom G at the Renaissance Hotel.

Finally, during the last 6 months we have welcomed a large group of new, regular and student members into the section. Please take the opportunity to talk to these new members and encourage them to take an active role in moving the CNS section to new heights.

Thank you for allowing me to serve you again this last year as Chair of our section, and welcome and best wishes to Chair Sean Stocker!
2013 Joseph Erlanger Distinguished Lectureship of the APS Central Nervous System Section

Charles Bourque, Ph.D.
Research Institute of McGill University Health Centre
Montreal, Quebec, Canada

Verney’s osmoreceptor: an integrated unit comprising ion channels, glial cells and mechanosensitive neurons.

Boston Convention & Exhibition Center, 205 C
3:15 PM-5:15 PM

CNS Section Reception
following the Erlanger Lecture
Monday, April 22nd, 5:30 pm
Pacific Grand Ballroom G at the Renaissance Hotel
CNS Programming: Joint Programming Committee

Sean Stocker, Ph.D.

CNS Featured Topics and Symposia

Featured Topic: Sunday, April 21st 10:30AM -12:30 PM
“Sympathetic Activity in Blood Pressure Regulation: Sodium and Hormonal Mechanisms”
Chair: G. Fink (Speakers: Frans Leenen & Sean Stocker)
Room 206B

Symposium: Sunday, April 21st, 3:15-5:15 PM
“Neuronal membrane/lipid rafts: organizers of membrane signaling, neuritic growth, and guidance”
Chairs: B. Head & Cooper
Room 206B

Featured Topic: Monday, April 22nd, 10:30AM-12:30 PM
“Brainstem autonomic pathways in health and disease”
Chair: T. Babic (Speakers: Babic and Mifflin)
Room 206B

Symposium: Tuesday, April 23rd, 8:00-10:00 AM
“Integrative Physiology of Hormonal and Neural Effects following gastric bypass surgery”
Chairs: Browning & Hajnal
Room 205C

Physiology in Focus: From Animals to Human Models of Disease

APS President’s Symposium Series

Boston Convention & Exhibition Center, 210 B/C

Sunday, April 21st, 2013 3:15 – 5:30 PM
Lessons from New Animal Models of Cystic Fibrosis
McCray

Monday, April 22nd, 2013 3:15 – 5:30 PM
Animal models of the irritable bowel syndrome: Basic and Translational Implications.
Chair: Galligan

Tuesday, April 23rd, 2013 3:15 – 5:30 PM
Eating Disorders
Boggiano

Wednesday, April 24th, 2013 4:45 PM-5:45 PM
Nobel Lecture in Physiology or Medicine
Linda Buck

Other related sessions

Sunday
Sunday April 21st, 8:00 – 10:00 AM
Symposium: “Emerging Concept: Central Mechanisms Involving Brain Renin-Angiotensin System and Inflammation in Hypertension and Cardiovascular Disease”
Chairs: Raizada & Feng
Room 206B
Sunday, April 21st, 3:15-5:15 PM  
Symposium: Monaminergic Control of Breathing During Development  
Chairs: Cummings & Hodges  
Room 211

**Monday**  
Monday, April 22nd, 8:00-10:00 AM  
**Carl Ludwig Distinguished Lectureship**  
Roger Dampney  
Room 210A

Monday, April 22nd 8:00-10:00 AM  
New Experimental Approaches to Human Brain Function in Health and Disease  
Chair: Friedlander  
Room 205C

Monday, April 22nd 3:15-5:15 PM AM  
Gastric Control of Appetite and Energy Metabolism  
Chairs: Zhang and Tache  
Room 206A

Monday, April 22nd 3:15-5:15 PM AM  
Central Nervous System Modulation of Cardiorespiratory Responses to Hypoxia  
Chair: Solomon  
Room 209

**Tuesday**  
Tuesday, April 23rd, 8:00-10:00 AM  
Assessing postganglionic sympathetic neuronal discharge patterns: implications for understanding aberrant sympathetic outflow  
Chairs: Shoemaker & Kneupfer  
Room 207

Tuesday April 23rd, 8:00-10:00 AM  
Neuroendocrine Regulation of Mammalian Reproductive Axis  
Chair: Colledge  
Room 210A

Tuesday April 23rd, 10:00-12:30 PM  
Role of ER stress in cardiovascular disease  
Chairs: Davisson and Cai  
Room 205B

Tuesday, April 23rd, 3:15-5:15 PM  
Brain Renin-Angiotensin Signaling in Metabolic Diseases  
Chair: Rahmouni  
Room 211

**Wednesday**  
Wednesday, April 24th, 8:00-10:00 Am  
NCAR Featured Topic – Trainee Session  
Chair: Lazartigues  
Room 211
Other related sessions
Saturday April 20th 1:00-3:00 PM
Rodent Experimentation Workshop (Cardiac Output, Metabolic Phenotyping, IVIS Imaging, and Optogenetics)
S. D. Stocker
Room 205 B

Saturday, April 20th 5:30-6:30 PM
Physiology in Perspective - The Walter B. Cannon Memorial Award Lecture
Michael J. Joyner
Room 210 BC

Sunday, April 21, 2013 6:00-7:00 PM
Henry Pickering Bowditch Memorial Award Lecture
Tune

Science Policy Sessions at EB 2013
Science Policy Symposium: How to Be a Science Advocate in Your Own Backyard
Saturday, April 20, 1-3 pm, Convention Center Room 206B

Funding Agency Update: Program and Policy Updates from the NIH and NSF
Wednesday, April 23 2:30-4:30 pm, Convention Center Room 207

Another way to become involved in science policy and advocacy: http://www.the-aps.org/mm/SciencePolicy/Advocacy - click and promote the importance of science research as a member of APS!

Training Advisory Committee: CNS representative
Erica Dale, Ph.D., CNS Representative
Trainees, EB is almost upon us! Are you ready? As trainees, we have some great opportunities for mingling, physiology, and fun! Here are a few events you should keep in mind when you start planning for the meeting:

Sunday, April 21st, 4:30 PM Come meet and support the undergraduates who have been selected to receive the David Bruce Outstanding Undergraduate Award. This event has always been a great success and your very own CNS section sponsors one of the awards!

Sunday, April 21st, 6:45 PM Have you been thinking of industry as a possible career choice? Come network and get the “scoop” at the Physiologist in Industry Committee Mixer in the Aegean Room, Renaissance hotel.

Monday, April 22nd, 3:15 PM Don’t miss the Joseph Erlanger Distinguished Lectureship of the CNS section given this year by Charles W. Bourque!

Monday, April 22nd, 5:30 PM Don’t forget our CNS Section Reception and Awards Presentation in the Pacific Grand Ballroom G at the Renaissance Hotel. It’s free with drinks, delicious food, and it’s a great way to get to know your fellow CNS section trainees in a relaxed environment.

Wednesday, April 24th, 10:30 AM With the NIH’s new initiative to focus more on translational research, its all the buzz nowadays. Come to the Trainee Advisory Committee’s symposium on “Translational Research: From Bench to Bedside” in room CC207 to find out more!
**Wednesday, April 24th, 2:30 PM** Do you know what it takes to get tenure? What’s changing in this new era of tough federal funding and how can you navigate as you come up through the ranks? Come to the Women in Physiology Committee’s symposium, “The Changing Face of Tenure” to find out in room CC 212.

**Wednesday, April 24th, 4:45 PM** Don’t miss your chance to personally meet a Nobel Laureate! Join us for the APS President’s Symposium Series: From Animals to Human Models of Disease featuring the APS Nobel Prize in Physiology or Medicine Lecture, “Unraveling Smell” by Dr. Linda B Buck who received the Nobel Prize in 2004. Following the lecture, come to the “Meet the Nobel Laureate” reception where you can meet Dr. Buck and maybe get a few pictures or an autograph!

**Wednesday, April 24th, 6:30 PM** Don’t miss the last hurrah of the meeting, the APS closing party!

From professional development to physiology to banquets, there are over 100 trainee related opportunities to jump into (for a complete listing, look to the APS website soon for a list of trainee-related activities). As your trainee representative to the CNS Section Steering Committee and the APS Trainee Advisory Committee, I will be here to answer questions and help to make your experience in the CNS section everything you want it to be. Come find me at the CNS Section Banquet on Monday night! Always feel free to contact me at edale@ucla.edu as my “door” is always open. See you at EB 2013 in beautiful Boston!

Remember folks, I’m here for you and my “door” is always open so feel free to contact me at edale@wisc.edu.

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**Physiologists in Industry Committee (PIC)**

**James Herrington, Ph.D., CNS Representative**

The APS PIC is sponsoring "Nrf2 Signal Pathway in Human Diseases and as Novel Therapeutics"

**Chairs:** Eugene W. Shek, Ph.D. and Ira J. Smith, Ph.D.

**Sunday, April 21st at 8 – 10 am**  Convention Center, Room 205C.

**Speakers:**
- **Donna Zhang, Ph.D.** (University of Arizona)
- **Shyam S. Biswal, Ph.D.** (John Hopkins Bloomerg School of Public Health)
- **Giovanni E. Mann, Ph.D.** (King’s College London)
- **Namakkal Rajasekaran** (University of Utah Health Sciences)

Attendees will gain a broad knowledge and understanding of Nrf2 signaling pathways in the pathophysiology of various diseases along with a deep appreciation for how Nrf2 may be a novel therapeutic target.

**You're invited!** Come meet, eat and socialize with your fellow Physiologists working in the corporate, industrial, academic, or government sector. The 12th Annual Physiologists in Industry Committee Mixer will feature free hors d’oeuvres along with information on the roles of Physiologists in Industry. This is a great opportunity to network with industry and academic APS members alike – we hope to see you there!

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**Porter Physiology Development and Minority Affairs Committee**

**Margaret Curras-Collazo, Ph.D., CNS Representative**

**Be Counted Campaign!** The Porter Committee (now called Physiology Development and Minority Affairs Committee) launched the ‘Be Counted’ campaign at the EB 2012 meeting to encourage APS members to update their membership profile to provide information on their gender and racial and ethnic groups. A significant proportion of APS members do not provide this information. This includes both minority and majority members. This makes it difficult for APS to track progress in increasing diversity among physiologists, to gauge the effectiveness of our diversity programs and to secure external funding for APS diversity.
programs. It also makes it difficult for the various committees and programs to reach out to minority and female trainees to encourage their participation in Society and Section activities. Finally, it makes it difficult to identify potential candidates for committees, awards, and elected positions. The Campaign, which will be in full swing at the 2013 EB meeting, is an ongoing effort to encourage all APS members to review their membership profile online and update it as needed.

**APS Education Committee**

**Mike Wyss, Ph.D.**

We hope that many of you participated in PhUN Week (Physiology Understanding Week) experiences for K-12 students in your area. Again this year, PhUN Week set a new participant record with over 10,500 students engaging in PhUN Week experiences. Interestingly, many of the PhUN Week experiences have grown into full-year service outreach by the participants. The engagement of students and faculty has been exceptional, and the creativity has been excellent. Please consider going to the early morning PhUN week poster session to discover the creative ideas that are developing to help grow the pipeline into science careers for the next generation. Whether you are participating this year or not, we encourage you to already start considering ways to make PhUN Week 2013 a great success. Enlisting trainees early and making connections with local schools can be a great start. For further information, please contact Scarletta Whitsett (SWhitsett@The-APS.org) in the APS Education office.

The APS Education Office and Committee have also continued to develop several short courses focusing on critical professional skills (http://www.the-aps.org/education/profskills/) that are available as both online training and face-to-face courses. The most recent addition to the online courses is “Interviewing for an Academic Position.” This joined other APS online courses, e.g., “Introduction to Poster Presentations” and “Writing and Reviewing for Scientific Journals.” The office and Committee also coordinate the highly successful live course in “Writing and Reviewing for Scientific Journals,” targeted toward upper-level graduate students and beginning postdoctoral fellows, who are working on their first first-author manuscript. In the course, students learn the essentials of manuscript writing and reviewing while gaining valuable opportunities for networking and collaboration. The course is offered both online and as a weekend live workshop with both including small group discussions led by experienced, well-published researchers in the students’ field. Find this and other upcoming APS education Committee courses at http://www.the-aps.org/education/profskills/upcoming.htm and encourage your trainees and colleagues to utilize these excellent programs.

The Committee is in the second year of a new award program that recognizes an APS member who demonstrates the greatest potential for incorporating innovative teaching techniques and technology in undergraduate physiology education. The awardee can be from any stage of his or her career, including both early-stage instructors and established investigators and is supported by ADInstruments. We encourage all CNS members who do undergraduate teaching to consider applying for this award. AND THE GREAT NEWS IS this year’s ADInstruments winner is CNS’s own Margarita C. Curras-Collaz from UC Riverside.

In relation to undergraduate physiology education, the Bruce Awards have provided a great venue for undergraduate students to present their work. Out of a field of 100 entrants, 24 of them were chosen to compete for the awards in 2013. Please consider stopping down to see these talented physiology students present their research at prior to the Bruce Award ceremony on Sunday afternoon.

Finally, since 1992 the APS has presented awards to high school students presenting physiology research projects at the ISEF. Sponsored by Intel, the ISEF is the world’s largest international pre-college science competition. Each year, millions of students worldwide competed in local and school-sponsored science fairs; the winners of these events go on to participate in Intel ISEF-affiliated regional and state fairs from which the best win the opportunity to attend the international Intel ISEF competition. APS members can request information on sponsorship for 2014 local, regional and state fairs by emailing Scarletta Whitsett (SWhitsett@The-APS.org).
Please Help Sponsor our CNS Awards!!!

The CNS Section actively seeks donations to sponsor research awards which recognize outstanding contributions of undergraduate students, graduate students, postdoctoral fellows and new investigators.

Please follow the link:


Donations are Tax-Deductible and used exclusively for the awards.