Get ready for the 125th anniversary celebrations at EB!

Mike Wyss, Chair, CNS Section of APS
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The cherry blossoms are again in full bloom in Alabama, revealing that it is to get ready for EB 2012. This year’s EB will be a special treat for all APS members. It marks the 125th anniversary of the formation of APS, and the festivities will begin Saturday with the Opening Ceremony and Walter B. Cannon Lecture at 5:30 pm followed by the 125th Anniversary Beach Party on the North Embarcadero from 7:00 pm–10:00 pm and ending with the APS 125th Anniversary Closing Party on Wednesday, April 25 from 6:30 pm–10:00 pm. Between these parties will be a lot of great nervous system related science. This year, the program will include Stephen Woods giving the Joseph Erlanger Lecture on Monday, symposia and featured topics. More on that inside the newsletter.

This is also a special year for CNS since, at the business meeting, CNS section’s own Sue Barman will become President of the APS for 2012-2013, only the 4th woman to hold that position. Interestingly, the 5th woman to be president, Kim Barrett will become President-elect at that meeting. Further, past CNS Chair Ann Schreihofer is the new Chair of the Section Advisory Committee (SAC) and thus a full member of the APS Council. Congratulations to all three APS members!

The section is very appreciative for the great leadership of Ann Schreihofer (Chair, 2008-2011; Steering Committee since 2004) and Steve Mifflin (COC Representative 2008-2012; Steering Committee 2005-2012) both of whom rotate off of the committee this year. Ann will continue to serve as an ad hoc member of the CNS Section Steering Committee through 2015. Both have done a fantastic job in leading the Section over the last decade. We encourage all of you to start thinking about service on one of the APS committees. Steve Mifflin has done a great job in getting our members on APS committees and Tony Verberne will continue assisting CNS members when he becomes the CNS representative to the Committee on Committees. But, you have to nominate yourself for one of the committees to get the ball rolling. Currently in addition to the above, CNS members Scott Carlson, Bill Yates, Glenn Toney, Stuart McDougall, Sean Stocker, Erica Dale and Zhilin Song serve on APS committees, but there are still a lot of openings and many of these members will be rotating off in the coming year. Please go to www.the-aps.org/committees/ to learn more about the opportunities that await you as a committee member. Feel free to talk to any of us on the steering committee about service on CNS Section or APS committees. I can guarantee you that it is very rewarding service and you learn much.

The EB 2012 website provides great information about the meeting and allows you to schedule the sessions and posters that most interest you. Please look over the CNS offerings which are detailed in this newsletter. Also, the David Bruce Awards will be given out on Sunday afternoon. About 100 undergraduate Physiology students will be presenting their research and 10 will win the award. Prior to the presentation of the awards, you will have a chance to view the posters of these students and talk to some of the brightest recruits for physiology graduate programs. Their science is always amazing.

Finally, this year we welcome a large group of new regular and student members. Come to the CNS reception and awards presentation on Monday at 5:30 p.m. at the Coronado room in San Diego Marriott Hotel and meet the new members, our Erlanger lecturer, and all the CNS 2012 award winners.
Opening reception: Saturday, April 21 at 7:00 pm following the Cannon lecture by L. Gabriel Navar. APS will gather on the North Embarcadero for music, food, and drinks.

Closing reception: Wednesday, April 25 at 6:00 pm following the Nobel Laureate lecture by Oliver Smithies. Festivities at the Marriott with food, drinks, and music by the APRS member band “GI Distress.”

2012 Joseph Erlanger Distinguished Lectureship

Stephen Woods, Ph.D.
University of Cincinnati

Peptides, food intake and body weight: problems of interpretation

Monday, April 23, 2012
3:30 – 4:30 pm
San Diego Conference Center - Room 23
Oral presentations sponsored by the CNS section

**Sunday, April 22, 2012**

**Featured Topic 1:**
Disruption of Central Sympathetic Control Mechanisms: Implications for Obesity-related Hypertension

Chairs: Daniela Sartor, Sean Stocker
Invited speakers: D. Sartor and E. Lambert plus 4 selected abstracts

**Time:** Sunday, April 22, 10:30 am-12:30 pm
**Place:** Room 22

**Symposium 1:**
Functional Integration in the Hypothalamic Paraventricular Nucleus

Chair: Alan Watts, Greti Aguilera
Speakers: G. Aguilera, A. Watts, J. Stern, J. Radley

**Time:** Sunday April 23, 3:30pm-5:30pm
**Place:** Room 28A

**Monday, April 23, 2012**

**Featured Topic 2:**
Chronic Intermittent Hypoxia: Respiratory, Autonomic and Cardiovascular Consequences

Chairs: Ann Schreihofer, Glenn Toney
Invited Speakers: Virend Somers plus selected abstracts

**Time:** Monday, April 23, 10:30am-12:30pm
**Place:** Room 22

**Symposium 2:**
Towards a Biology of Body Weight Regulation: The Works of Stephen Woods

Chair: Randy Seeley, Stephen Woods
Speakers: A. Sclafani, T. Moran, H. Berthoud, R. Seeley

**Time:** Monday, April 23, 8:00am-10:00am
**Place:** Room 23

**Cross Sectional Symposium of Interest**

Brain Insulin: The Forgotten Partner of Leptin?

Chairs: Kamal Rahmouni, Virginia Brooks
Speakers: D.J. Clegg, A.D. Cherrington, K. Rahmouni, V. Brooks

**Time:** Sunday, April 22, 8:00 am-10:00 am
**Place:** Room 24
Poster sessions sponsored by the CNS section

**Poster Sessions – Sunday, April 22, 2012**

- Sympathetic Dysregulation in Obesity
- Blood-Brain Barrier, Brain Blood Flow, and Metabolism
- Cognition and Behavior
- Neuroinflammation, Neuroprotection, Ischemia

Central Regulatory Systems

- Brain Development and Aging
- Neurodegenerative and Neurotoxic Disorders

**Poster Sessions – Monday, April 23, 2012**

- Central Regulation of Food Intake and Body Weight
- Neuronal Excitability (Ion Channels and Transporters)
- Neurotransmission and Signaling Molecules

Neuroendocrinology and Neuroimmunology

- Neuroplasticity

**Other related sessions**

**Saturday, April 21, 2012**

**Public outreach and animal research: a toolkit for investigators**

1:00-3:00 pm – San Diego Convention Center Room 25B

CNS Steering Committee member and ACE Chair Bill Yates has organized this symposium on public outreach at EB 2012. During the past decade, public support for animal research has dwindled from more than 70% to the 50-60% range, according to recent public opinion polling. Distorted information distributed by animal research opponents has played a role in this decline in public support, yet few investigators come forward to challenge false claims or invest time in building public confidence in the work we do. There is growing awareness that scientists need to both explain the importance of their research and underscore their commitment to treating animals humanely. Nevertheless, many scientists feel ill-equipped to take on the role of research advocate. This symposium is intended to provide scientists the background they need to broach the topic of animal research with their students, neighbors, and family members. Speakers include an investigator, a veterinarian, and a media expert, all of whom are seasoned research advocates.

1:00 pm Introduction, **Bill Yates**

1:10 pm Engaging the public about animal research: a scientist’s perspective. **Dario Ringach**

1:40 pm Public outreach: a laboratory animal veterinarian’s perspective and experience over a quarter of a century. **John D. Young**

2:10 pm Why investigators and institutions should talk about animal research: a media relations perspective. **Jim Newman**.

5:45-6:45 pm **Walter B. Cannon Memorial Lecture: L. Gabriel Navar**

Ballroom 20A

**Sunday, April 22, 2012**

8:00-10:00 am Brain Insulin: The Forgotten Metabolic Partner of Leptin?

10:30-12:30 pm Autonomic control of the viscera

3:30-5:30 am Stress-related respiratory disorders: from clinical manifestations to abnormal chemosensitivity
Monday, April 23, 2012
8:00-10:00 am Ludwig Distinguished Lecture: Irving Zucker
8:00-10:00 am Development of the control of breathing
10:30-12:30 pm Altered central and ganglionic catecholminergic transmission in CV disease
3:30-5:30 pm Molecular sensors in afferent neurons that contribute to pain, fatigue, and activation of autonomic reflexes in health
3:30-5:30 pm Compensatory responses to acute or chronic hypoxia exposure

Tuesday, April 24, 2012
8:00-10:00 am From microscopes to microneurography: innovative techniques to study central neural control
8:00-10:00 am Physiology of calcium-activated potassium channels
10:30-12:30 pm Neurovascular responses to aging and disease: adaptations and interventions
10:30-12:30 pm Julius Comroe Distinguished Lecture: Nanduri Prabhakar
10:30-12:30 pm Novel role of the renin-angiotensin system in aging and other pathologies
3:30-5:30 pm Computational modeling in central respiratory control and CO2 chemoreception

National Institutes of Health: Programs and Policies Update from Institutes**
2:00-4:00 pm – San Diego Convention Center Room 1A
Session Chairs: APS President-elect Susan Barman and APS Science Policy Chair John Chatham.
Drs. Susan Shurin of the National Heart, Lung, and Blood Institute (NHLBI); Judith Greenberg of National Institute of General Medical Sciences (NIGMS); Richard Nakamura of the Center for Scientific Review (CSR); and Elizabeth Wilder of the Division of Program Coordination, Planning, and Strategic Initiatives (DPCPSI) will share the latest information about research programs and policy priorities.
**The session is jointly sponsored by the APS, AAA, ASBMB, ASIP, ASN and ASPET.

Wednesday, April 25, 2012
8:00-10:00 am Recent advances in physiology and disease: role of circadian clock in neural, CV, and metabolic function
8:00-10:00 am Neurovascular mechanisms and targets in stroke: from cells to humans
8:00-10:00 am Respiratory pattern variability: insights into respiratory control mechanisms in health and disease
3:30-5:30 pm Leptin: metabolic, cardiovascular and immune control: Does it all come from the brain?

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.
Training Advisory Committee: CNS representative

Erica Dale, Ph.D., CNS Representative

It’s that time of year again and EB is just around the corner. What a great opportunity for APS trainees to mingle, enjoy some physiology, and maybe even become more involved with the APS and the CNS section! I’d like to point out some important events created with trainees in mind. From professional development to fun-runs to banquets, there are over 100 trainee related opportunities to jump into (for a complete listing, go to www.the-aps.org/mm/Conferences/EB/Trainee-Sessions-at-EB2012.pdf). Some highlights include: “Meet the Nobel Laureate” wine and cheese reception honoring all APS trainees and Dr. Oliver Smithies on Wednesday, April 25th, 2012, immediately following the APS Nobel Prize in Physiology or Medicine Lecture in CC, room 20A; the undergraduate poster session and David Bruce Awards reception on Sunday, April 22, from 4-5:30pm in room CC, the Sails Pavilion; “E-media Tools for the Professional Scientist”, a trainee symposium aimed at learning how to navigate the social media landscape and online teaching resources in the context of physiology (Wednesday, April 25th, 2012 10:30am-12:30pm in room 25C of the San Diego Convention Center); and a 5K fun run/walk on Sunday morning (pre-registration required: www.asbmb.org/Meetings_01/2012mtg/2012Annualmtgint.aspx?id=13298).

Also don’t forget to come to our CNS section Reception and Awards Presentation on Monday, April 23rd at 5:30pm in the Coronado room at the San Diego Marriott. This event is free with drinks, delicious food, and is a really fun way to get to know your fellow CNS Section trainees in a relaxed environment. As your trainee representative to the CNS Section Steering Committee and the APS Trainee Advisory Committee, I will be there to answer questions and help to make your experience in the CNS section everything you want it to be. Always feel free to contact me at edale@wisc.edu as my “door” is always open. See you at EB 2012 in beautiful San Diego!

BE COUNTED

The APS Porter Physiology Development Committee and the APS Women in Physiology Committee encourage all members to complete and update their member profile and include information regarding gender, racial and ethnic group, and interest areas. This information will be useful to APS staff and committee chairs to invite members to participate on various programs and initiatives (e.g., strategic planning task force, symposia, or advisory boards) as well as determine member’s eligibility for specific awards. This information will be useful in determining the demographic profile of the APS membership and will NOT be released to the public associated with your name. For more information: http://www.the-aps.org/becounted
Join the CNS steering committee!
The CNS section steering committee is currently looking to fill 2 positions this year, with an additional position available next year. This is an excellent opportunity to become involved with the APS and represent CNS-related research to the Society. Individuals can self-nominate.
If interested contact Mike Wyss jmwyss@uab.edu

Welcome to our new CNS section members!

Student Members:
Paolo Basso        Urmia Basu        Adrian Curtin        Angel De La Cruz Landrau
Matthew Dicken     Wenting Du        Paul Holloway        Jennifer Iddings
Dae Kang           Takashi Matsui    Masahiro Okamoto
Carolyn Pritchett  Abigail Renoux    M. Saravanan
Stephanie Smith    Iris Speigel      Sophie Teng
Matthew Valdez     Aida Freire Valls

Regular Members:
Duncan Astle       Megan Bardgett    Andrew H. Bass
Michael Becksted   Ralph Beitel      Julie Blendy
Farran Briggs      Anda-Alexandra Calinescu
Boris P. Chagnaud  Xiaodi Chen      Alain deCheveigné
Erica Dale         Yun Fan          Michale Fee
David W. Franklin  Scott Grafton    Nicholas Gilpin
Qi Hao             Christopher Hasson Mark Histed
Jeffrey Iliff      Seung Jung       W. Michael King
David Linden       Tom Matheson     Maureen McCall
Peter Neri         Timothy Ness      Horacio Novaira
Thomas Otis        Ranjana Patnaik   Laurent Perrinet
Eric Shea-Brown    Itender Singh     Tripat Singh
Zoltan Somogyvari  William Stacey   Garrett Stanley
Alexis Strahan     Ryoichi Teruyama  Cory Teuscher
Stephen Van Hooser Ananth Vellimana  Henry Yin
                                          Zung Yuan
                                          Wei Zhao

CNS reception and awards
Monday at 5:30 p.m.
Coronado Room  San Diego Marriott Hotel
CNS Section Steering Committee

Chair and Section Advisory Committee Representative
J. Michael Wyss
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Phone: 205-934-6086
Email: jmwyss@uab.edu
Term ends: 2014

Secretary-Treasurer
Janice H. Urban
Rosalind Franklin University
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Term ends: 2014

Committee on Committees Representative
Steven W. Mifflin
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Term ends: 2012

Section Program Committee Chair
Joint Program Committee Representative
Sean D. Stocker
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Term ends: 2014

Awards Subcommittee Chair
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Term ends: 2013

Physiologists in Industry Committee Rep
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Term ends: 2014

Trainee Advisory Committee Representative
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Term ends: 2014

International Representative
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Term ends: 2014

Ex-Officio Members
Susan Barman (APS President)
Ann Schreinhofer (Past Chair and Section Advisory Committee)
Scott Carlson (AAAS, Biology Rep)
Bill J. Yates (Animal Care and Experimentation)
T. Richard Nichols (Animal Care and Experimentation)
Glenn Toney (Conference Committee)
Ida J. Llewellyn-Smith (APS Council)
Zhilin Song (International Committee)
Stuart McDougall (Membership Committee)
Margarita Curras-Collazo (Porter Committee)