Message from the Section Chair,

Michael Hedrick

Greetings! I hope everyone has made housing and travel plans for the Experimental Biology 2016 meeting in San Diego (April 2-6, 2016). As always, CEPS will be well represented in San Diego with several Featured Topics, Poster Sessions and Symposia (see page 2) that are of interest to our section members. We will again sponsor a **CEPS Abstract-Driven Trainee Featured Topics session** and host the **Krogh Distinguished Lectureship**, presented by Dr. Jon Harrison, Arizona State University, who will speak on “Physiological and Evolutionary Interactions Among Body Size, Metabolic Rate and Oxygen.” Dr. Harrison’s lecture will be held Tuesday April 5, at 3:15 pm in Room 23 of the San Diego Convention Center.

In addition to the strong scientific program, the CEPS Trainee Advisory Committee will host the annual ‘**Trainee Mixer**’ on Monday April 4 from 5 to 7pm at the **Horton Grand Hotel** (311 Island Ave), a short walk from the convention center, followed by the CEPS Banquet/Business Meeting, 7:00 to 10:00 pm. This is an exciting event that will give us a chance to socialize and to honor several members and trainees of our section on their scientific accomplishments. I look forward to seeing everyone at this event!

Our section has had some recent turnover on the Steering Committee. Dr. Karen Sweazea (Arizona State University), CEPS Treasurer, stepped down on December 31, 2015, and was replaced by Dr. Heidy Contreras (University of LaVerne). **Dr. Cassondra Williams** (UC-Irvine), Trainee Advisory Committee Representative, has been replaced by **Joseph Santin** (Wright State University). Cassondra will continue as a CEPS Trainee Subcommittee Representative and is joined by **Bridget Martinez** (UC-Merced) as a Trainee Subcommittee representative. **Dr. Scott Kirkton** (Union College) our current Programming Committee Chair and Joint Program Committee Representative, will step down at the end of the EB meeting, and will be replaced by **Dr. Dane Crossley** (University of North Texas). **Dr. Kendra Greenlee** (North Dakota State University) joins as our new Membership and FAPS Committee Representative. Many thanks to the outgoing members and welcome to the new members!

The **XXXVIII International Union of Physiological Sciences Congress** will be held in Rio de Janeiro, Brazil in August, 2017. Comparative physiology has always been well represented at the IUPS meeting. The deadline for symposium proposals is **March 14, 2016**. Proposals must be submitted through the Congress website (www.iups2017.com). Please consider submitting a proposal that would be of interest to CEPS membership.

I look forward to seeing you in San Diego!

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**2016 August Krogh Distinguished Lectureship**

The Section’s Distinguished Lectureship, the August Krogh Award, will be presented to **Dr. Jon Harrison**, Professor in the School of Life Sciences at Arizona State University, on **Tuesday April 5, 2016 at 3:15 pm (Room 23)**. Dr. Harrison will deliver a lecture entitled “Physiological and Evolutionary Interactions among Body Size, Metabolic Rate and Oxygen”.

Dr. Harrison was trained in Environmental, Population and Organismal Biology under Dr. Todd Gleeson at the University of Colorado and Dr. John Phillips at the University of British Columbia. He has spent his professional career at Arizona State University. Dr. Harrison is an integrative physiologist who has made immense contributions to the field of insect physiology, especially in areas of the effects of environmental and climate change on the evolution of respiratory and metabolic processes in insects. His work has stimulated research on control of insect body size and oxygen delivery systems. He has published over 110 papers, including ones in *Proceedings of the National Academy of Sciences, Nature* and *Science*. He has also authored a book, *Ecological and Environmental Physiology of Insects* (Oxford Press, 2012).

In addition to his research contributions, Dr. Harrison is an Associate Editor of the journal *Physiological and Biochemical Zoology*. He has held many leadership roles in the Comparative Physiology community, including Program Officer for CEPS (2006-9), and Program Officer of the Society for Integrative and Comparative Biology (2011-13).
## Preview of CEP Programming at EB2016

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Session Type</th>
<th>Event Description</th>
<th>Presentations Times:</th>
<th>Chairs</th>
</tr>
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<tbody>
<tr>
<td>Sunday, April 3</td>
<td>7:30 AM – 5:30 PM</td>
<td>CEP Poster Session</td>
<td>Posters for the Scholander Award Competition</td>
<td>12:45 – 3:00 PM</td>
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<tr>
<td>Sunday, April 3</td>
<td>3:15 PM - 5:15 PM</td>
<td>CEP Featured Topic</td>
<td>Abstract-Driven Trainee Session: Speakers drawn from submitted abstracts Convention Center, Room 25B</td>
<td></td>
<td>Catherine Ivy and Daniel Warren</td>
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<tr>
<td>Monday, April 4</td>
<td>10:30 AM – 12:30 PM</td>
<td>CEP Featured Topic</td>
<td>Avian Osmoregulation: Unique Solutions, Unanswered Questions Speakers: Eldon Braun and Hiroko Nishimura Additional speakers drawn from abstracts Convention Center, Room 25C</td>
<td></td>
<td>Karen Sweazea and David Goldstein</td>
</tr>
<tr>
<td>Monday, April 4</td>
<td>7:30 AM – 5:30 PM</td>
<td>CEP Poster Session</td>
<td>A Broad History of Temperature Regulation Speakers: Michael Angileta, Larry Crawshaw, Gary Mack, Suzanne Schneider Convention Center, Room 25C</td>
<td></td>
<td>Lisa Leon and Scott Kirkton</td>
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<tr>
<td>Tuesday, April 5</td>
<td>8:00 AM – 10:00 AM</td>
<td>HISTORY Symposium</td>
<td>Context Dependence of Cardiorespiratory Physiology: Temperature effects, circadian cycles, and system interdependence Speakers: Stanley Hillman, Elisa Maiquii, Joseph Santin, Lucas Zena Convention Center, Room 25C</td>
<td></td>
<td>Joseph Santin and Lynn Hartzler</td>
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<tr>
<td>Tuesday, April 5</td>
<td>10:30 AM – 12:30 PM</td>
<td>CEP Symposium</td>
<td>Physiological and Evolutionary Interactions among Body Size, Metabolic Rate and Oxygen Speaker: Jon Harrison Convention Center, Room 23</td>
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<td>Michael Hedrick</td>
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<tr>
<td>Tuesday, April 5</td>
<td>3:15 PM – 4:15 PM</td>
<td>August Krogh</td>
<td>Comparative Physiology of Skeletal Muscle - Novel Studies in Plasticity and Structure Speakers: Michael Butcher, Natalie Holt, Joe Thompson, John Whiteman Convention Center, Room 25C</td>
<td></td>
<td>Bryan Rourke and Angela Horner</td>
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<tr>
<td>Tuesday, April 5</td>
<td>7:30 AM – 5:30 PM</td>
<td>CEP Poster Session</td>
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<tr>
<td>Wednesday, April 6</td>
<td>10:30 AM – 12:30 PM</td>
<td>CEP Symposium</td>
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From Outgoing-Treasurer: **Karen Sweazea**

I look forward to seeing everyone at the annual Comparative and Evolutionary Physiology Section Dinner-Business Meeting. It will take place on **Monday, April 4 at Horton Grand Hotel** just a few blocks from the Convention Center (311 Island Ave).

Dine and network with fellow comparative physiologists and celebrate this year’s Krogh Distinguished Lecturer and honored guest, Dr. Jon Harrison from Arizona State University. We will also celebrate achievements of the 2016 recipients of the CEPS New Investigator Award, Scholander Awards, and the Novo Nordisk Foundation Travel Fellows.

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**CEP Section Award Winners**

Congratulations to the 2016 Comparative section award recipients. Awardees will be recognized at the CEPS Section dinner on Monday, April 4.

**New Investigator Award:**
- Casey Mueller
  - California State University, San Marcos

**Novo Nordisk Travel Awards:**
- Joseph Santin
  - Wright State University
- Ashley Heim
  - Colorado State University

**APS Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award:**
- Cassondra Williams
  - Univ. of California, San Diego

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**News from the Trainee Advisory Committee**

Trainees are invited to attend the **Trainee Mixer** on Monday, April 4 from 5-7pm. The Mixer is held at the Horton Grand Hotel Regency Ballroom (311 Island Ave., 619-544-1886) immediately prior to the CEP Dinner-Business meeting at 7pm. Meet, mingle and network with fellow trainees and the 2016 Krogh Distinguished Lecturer and honored guest, Dr. Jon Harrison from Arizona State University. Also present will be recipients of the CEPS New Investigator Award, and Novo Nordisk Foundation Travel fellows. Hor d’oeuvres and your first drink is on us!

**TRAINEE S:** APS operates an effective and easy to use communication bulletin board called APS Connect. Follow this link [http://connect.the-aps.org/home](http://connect.the-aps.org/home) to set up your account and stay connected with the latest trainee news from the Trainee Advisory Committee.

**ADVISORS:** If you have trainees in your lab or department, please encourage them to join the APS and become members of the CEP section. **Undergraduates can join for free!** Membership fees are reduced for graduate students and postdocs.

Follow APS on Facebook: [https://www.facebook.com/AmericanPhysiologicalSociety](https://www.facebook.com/AmericanPhysiologicalSociety)
Follow the APS I SPY PHYSIOLOGY BLOG: [http://ispyphysiology.com](http://ispyphysiology.com)
Follow Life Lines by Dr. Doolittle at: [http://scienceblogs.com/lifelines/](http://scienceblogs.com/lifelines/)
Key Trainee Sessions or Events at EB2016 by date:

1. **Saturday, April 2, 1:00 – 3:00pm, Room 25C.** Setting the record straight for science: how to write to local and national news outlets. (Sponsored by APS Communications Committee)

2. **Saturday, April 2, 3:30-5:30pm, Torrey Pines 1, Marriott Marquis Hotel.** Undergraduate orientation to EB. Open to all undergrads attending EB2016.

3. **Sunday, April 3, 3:15 – 5:15pm, Room 25B.** Comparative and Evolutionary Physiology Trainee Driven Featured Topic Session. Trainee speakers chosen from submitted abstracts.

4. **Sunday, April 3, 3:30-5:30pm, Sails Pavilion.** Undergraduate poster session and David Bruce Award ceremony.

5. **Monday, April 4, 8:00 – 10:00am, Room 20A.** Sex Differences in Health and Disease. (Sponsored by APS Trainee Advisory Committee)

6. **Monday, April 4, 8:00-10:00am, Room 28B.** Publishing 101: How to get your work published and avoid ethical minefields. (Sponsored by the Publications Committee)

7. **Monday, April 4, 3:15-5:15pm, Room 25C.** Negotiating for Success! (Sponsored by the Women in Physiology Committee).

8. **Tuesday April 5, 10:30-12:30pm, Room 25B.** Leadership and management skills: what you might not see in your CV. (Sponsored by APS Careers in Physiology Committee).

9. **Tuesday April 5, 3:15pm – 5:15pm, Room 210A.** CEPS Krogh Lecture: Jon Harrison.

10. **Wednesday April 6, 10:30am - 12:30pm, Room 22.** Now Hiring Ph.D.’s: Post Doc Not Required (Sponsored by APS Trainee Advisory Committee).

11. **Wednesday April 6, 4:45pm - 5:45pm, Room 20A.** APS President’s Symposium Series. Nobel Prize Lecture: Molecules Against Cancer or for Very Long-Term Memory. Lecture by Roger Tsien, Nobel Prize in Chemistry, 2008.

*Note: These sessions conflict with CEP section Symposia.*

Comings and Going on the Section Steering Committee I

Welcome to new our newest members

Heidy Contreras
Section Treasurer

Dane Crossley
Program Chair and JPC Rep.

Joe Santin
Trainee Committee Rep.

Bridget Martinez
Trainee Sub-Committee

Kendra Greenlee
Membership and FAPS Committee Rep.
Physiologist in Industry  

Ken Olson, CEPS Representative

The Physiologists in Industry Committee is sponsoring an exciting Symposium at EB2016, entitled “Metabolic Syndrome and the Pathway of Drug Development; From Bench to Bedside” on Sunday, April 3, 10:30–12:30pm in Convention Center Room 22. This symposium focuses on the known risk factors for Metabolic Syndrome. It will also cover basic research and the various steps (ranging from early drug discovery, applied preclinical, development, safety, and the clinical and regulatory hurdles) required to get a drug from conception to FDA approval. This symposium provides 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 pre-doctoral awardee is Renato Gaspar, Federal University of Maranhão, Sao Luis, Brazil for his abstract “Polycystic Ovary Syndrome Phenotype in Hyperinsulinemic but Normoandrogenic Monosodium L-Glutamate Obese Rats”. The postdoctoral awardee is Kavaljit Chhabra, Ph.D., University of Michigan, Ann Arbor, for his abstract “Hypothalamic Pomc-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 fellow Physiologists working in the corporate, industrial, academic, or government sectors. The 15th Annual Physiologists in Industry Committee Mixer features 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. Please feel free to contact me if there are issues to be brought to the attention of the PIC. 

Comings and Going on the Section Steering Committee II

Many thanks to outgoing members

Karen Sweazea  
Section Treasurer

Scott Kirkton  
Program Chair and JPC Rep.

Cassandra Williams  
Trainee Advisory Committee Rep.
A Call for Nominations:  The August Krogh Distinguished Lectureship of the APS Comparative and Evolutionary Section is sponsored by Novo Nordisk Foundation and awarded to a distinguished scientist who has made major and meritorious contributions to the scientific areas represented by the APS Comparative and Evolutionary Physiology Section. It is the most prestigious award of our section.

Nomination packets for the 2017 Krogh Lecturer are now being accepted. The nominator’s letter should state the basis for nomination with a synopsis of the nominee’s scientific contributions and can include supporting excerpts/statements (no more than 5) from other colleagues and trainees. The nominee’s curriculum vitae (required) should be current, listing honors or awards, positions, grants, publications, current and past grant support, a list of trainees, and professional activities.

All nomination materials for the 2017 award must be submitted to the Award Chair, Siribhinya Benyajati, Ph.D., sinya-benyajati@ouhsc.edu, by March 15, 2016.

The steering committee will generate a slate of nominees to be voted on by the membership in May.

From Our Program Chairs  Scott Kirkton and Dane Crossley

Experimental Biology 2017 will be held in Chicago, IL April 22-26, 2017. It is not too early to think about ideas for symposia or featured topic proposals for the 2017 meeting. Our section is scheduled for 2 Symposia and 1 Featured Topic. Support for speakers is very generous.

We are happy to provide help or guidance creating your proposal. Past proposals with broad interests received the most support from the Steering Committee. In addition, topic that appealed to other APS sections drew the largest audiences. We are eager to work with any proposal (before or after selection) to improve its interest from other APS sections.

For more information about submitting proposals see http://www.the-aps.org/mm/Conferences/EB or contact us at kirktons@union.edu or dane.crossley@unt.edu. Proposals for symposia and featured topics should be submitted by March 15, 2016. Proposals will be discussed and decided upon at the CEPS Steering Committee meeting at the EB 2016 meeting.

From the Joint Program Committee (JPC)

The American Physiological Society invites you to submit ideas for the Integrative Physiology Symposium Series which will take place during Experimental Biology 2017, April 22-26, in Chicago, IL.

Deadline for submission is March 18, 2016!

Click Here to enter the submission site.

Integrative Physiology Symposia should cover broad topics of interest to constituents of several APS sections and interest groups. Submitters provide a session topic and up to eight suggested speakers. The JPC will evaluate submissions and assist submitters in identifying speakers if necessary. Submitters are strongly encouraged to work with your JPC representatives, Scott Kirkton (kirktons@union.edu) and Dane Crossley (dane.crossley@unt.edu) or the JPC representative most aligned with the program topic to get guidance on the integrative requirements for the topic or for help identifying speakers.
AJP - Regulatory, Integrative and Comparative Physiology

Willis Samson, Editor-in-Chief

Spring 2016 report. The editors encourage manuscript submission from members of the CEPS. Associate Editor Ken Olson (kolson@nd.edu) continues to handle the majority of the comparative manuscripts with help from others including Roger Evans, Maureen Keller-Wood and Wolfgang Langhans. Please remember when submitting manuscripts to the journal that there now is no submission fee and that color figures are free to APS Members. Each month we are asked to highlight two or three current manuscripts as Featured Articles. This month we feature an excellent manuscript by Alex Zimmer and Chris Wood, entitled: Physiological and molecular ontogeny of branchial and extra-branchial urea excretion in posthatch rainbow trout (Oncorhynchus mykiss). We welcome suggestions for topics around which we can build “Calls for Papers” or Invited Editorials and Reviews. Next month a new Call will be announced soliciting manuscripts covering all aspects of pregnancy, parturition, and pre- and neonatal programing.

Career Opportunities in Physiology Committee

The Career Opportunities in Physiology Committee fosters career development of physiologists of all ages:

A successful career in research is filled with leadership and management opportunities. Join us for the Career Opportunities in Physiology symposium. Identify the skills you already have, find out what might be missing and developed further. Tuesday April 5, 10:30am -12:30pm in Room 25B.

Experimental Biology Undergraduate Orientation and Poster Sessions
Open to all undergraduates attending EB, the Undergraduate Orientation session helps the students get the most out of their EB experience. Included are award presentations for APS-sponsored undergraduate research programs. Held at Torrey Pines 1, Marriott Marquis San Diego Marina Hotel, from 3:30-5:30pm on Saturday, April 2. A special poster session to highlight undergraduate research at EB, will be held from 3:30-5:30pm on Sunday April 3 (Sails Pavilion) – please stop by and meet the next generation of physiologists!

APS Video Contest – VOTE NOW!!
Each year we encourage undergraduate and graduate students to creatively connect with physiology and bring it the broader public through a short video contest. First place prize is $750 plus travel money to attend EB. The viewer’s-choice award is $250 – YOU be the judge! The video with the most views before April 2 wins! To view this year’s entries, go to: http://bit.ly/1nmGEWf

Science Fair Prizes
Know of a science fair near you? The APS has FREE prizes to give away! Just fill out a simple online request form and APS members can present one award per science fair. Student winners receive an APS t-shirt and a certificate for the best physiology project. The teachers of the winning students will receive an APS teaching resource packet. Follow this link for further details: http://bit.ly/1BkhnLu

Summer Undergraduate Research Fellowships
These awards encourage undergraduates to pursue a career in research, and provide a $4,000 stipend and $1,300 in EB travel support. Awards are available both for students with little or no prior research experience (Undergraduate Summer Research Fellowship or UGSRF) or significant exposure to research already (>9 months; Undergraduate Research Excellence Fellowships or UGREF). The APS sponsors 3 additional summer research programs targeting underrepresented undergraduate students. Applications for 2016 closed on February 1st, but keep this program in mind for next year.
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