Probably many of you reading this were in Denver a couple of months ago for the quadrennial APS-sponsored Inter-society Comparative Physiology Conference. If so, you likely recall the “buzz” of that meeting, each day full of stimulating presentations and opportunities for interacting with friends and colleagues. This coming April, the Experimental Biology meeting in Washington, DC, is shifting to a new format that we anticipate will provide a similar “buzz” for the community of comparative physiologists. Rather than having our Section’s programming dispersed throughout the larger meeting, our sessions will be clustered so that all Comparative Physiology programming will occur within just 2 days, Monday and Tuesday. Within those two days, we will have 4 organized sessions (two symposia with 4 invited talks each, and 2 Featured Topic sessions with a mix of invited and abstract-based talks), 2 poster sessions, our distinguished lectureship (the Krogh lecture, this year presented by Dr. Jerry Kooyman), and our dinner/business meeting. Details of these sessions can be found elsewhere in this newsletter. Those of you who wish to take in the breadth of the EB meeting can, of course, still choose to come for the entire 4+ days. But this year you will have the option of a shorter, focused “meeting within a meeting” that targets comparative physiology. We hope that this change of format will make the meeting both scientifically exciting and logistically attractive. And, of course, we hope that the result is a record turnout at our sessions. The new format is an experiment from the APS. Let’s make the most of it—submit your abstract, convince your colleagues, your students, and your colleagues’ students to attend, and help to make that “comparative physiology buzz” an annual event.

2011 Krogh Distinguished Lecturer: Dr. Jerry Kooyman

We are excited this year to have Dr. Jerry Kooyman as the Comparative and Evolutionary Physiology Section’s Krogh Distinguished Lecturer. Dr. Kooyman has spent almost all of his professional career at the Scripps Institution of Oceanography in San Diego, California, where he is Research Professor at the Center for Marine Biotechnology and Biomedicine. Dr. Kooyman pioneered studies of diving in Antarctic birds and mammals, including development of the isolated ice-hole for study of free-diving wild seals and penguins. His research innovations have spawned a major research focus for comparative physiology. Dr. Kooyman has disseminated his work widely via scientific and popular publications, photography, and cinematography. His accomplishments have been recognized in many ways, including being named a Fellow of the Zoological Society of London, of the American Association for the Advancement of Science, and of The Explorer’s Club. In 2005, Dr. Kooyman received the first Kenneth Norris Lifetime Achievement Award from the Marine Mammal Society.
The 2011 American Physiological Society/Experimental Biology Meeting will be held in Washington, DC, April 9-13. The Comparative and Evolutionary Physiology Section program is scheduled for Monday and Tuesday (April 11-12) and includes the annual August Krogh lecture, two symposia, two featured topic sessions, and two poster sessions (including posters competing for the Scholander award).

**Monday, April 11**

- **Elucidating Nature’s Solutions to Human Disease** (Featured Topic; 10:30 AM – 12:30 PM) – Rudy Ortiz, chair
- **What Fuel are You Burning? Comparative Physiology of Metabolic Substrate Utilization** (Symposium, 3:15 PM – 5:15 PM) – Eldon Braun and Wayne Willis, chairs
- Comparitive and Evolutionary Physiology Poster Session (including Scholander presentations)

**Tuesday, April 12**

- **August Krogh Distinguished Lecture** by GERALD L. KOOYMAN (8:00 AM – 9:00 AM)
- **Comparative Physiology of Brown Adipose Tissue** (Featured Topic, 10:30 AM – 12:30 PM) – Martin Klingenspor, chair
- **Cardiac pH Regulation** (Symposium, 3:15 PM – 5:15 PM) – Daniel Warren and Holly Shiels, chairs
- Comparitive and Evolutionary Physiology Poster Session

**ABSTRACTS** – Please submit your EB abstracts NOW! Be sure to indicate one of the CEPS Topic Areas when submitting (1084-1090 APS).

- Featured Topics*
  - 1084-APS: Comparative physiology of brown adipose tissue
  - 1085-APS: Elucidating nature’s solutions to human disease

- Regular Posters
  - 1086-APS: Comparative cardiovascular and respiratory physiology
  - 1087-APS: Comparative metabolic physiology, biochemistry and endocrinology
  - 1088-APS: Comparative muscle physiology, locomotion and behavior
  - 1089-APS: Comparative osmotic, ionic, and acid-base regulation
  - 1090-APS: Other comparative and evolutionary physiology

*NOTE: If an abstract is selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once as an oral presentation in the featured topics session.

In addition to CEPS programming, there will be many lectures, workshops, symposia, and featured topics offered by other APS sections that will likely be of interest to the CEPS membership (see websites below).

**Important Websites:**
- General EB2011 Information: http://experimentalbiology.org/content/AboutEB.aspx
- Abstract Submission: http://experimentalbiology.org/content/AbstractSubmission.aspx

Barney Rees, CEPS Program Officer
Awards for Experimental Biology 2011
Application Deadline: December 3, 2010

The CEP section has several awards available to support attendance at the EB 2011 meeting. These include:

**CEP New Investigator Award**
($1,000 plus reimbursement of the registration fee) recognizes outstanding investigators in the early stages of their career.

**CEP Research Recognition Awards**
($500 plus reimbursement of the registration fee) will provide up to three travel awards in recognition of meritorious research by young investigators who participate in the Experimental Biology meeting.

Two CEP Travel Awards sponsored by Novo Nordisk Foundation ($500 plus reimbursement of the registration fee) recognizes an outstanding graduate or undergraduate student involved in comparative and evolutionary research.

In addition, award winners are invited to the CEPS Dinner and offered the opportunity to organize scientific sessions at subsequent meetings.

Don't let these awards go unclaimed!


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2011 CEPS Dinner and Business Meeting

The annual Comparative and Evolutionary Physiology Section Dinner-Business Meeting will be held at 6pm Monday, April 11 at Thunder Grill restaurant located at the Union Station (50 Massachusetts Ave., Washington DC, 20002). The restaurant is within walking distance (<1 mile) of the Washington DC Convention Center.

CEPS members, post-doctoral fellows, students and friends of CEPS are encouraged to attend and meet the Krogh Distinguished Lecturer and honored guest, Dr. Gerald L. Kooyman. The recipients of the CEPS Research Recognition Award and New Investigator Award, along with the Novo Nordisk Foundation Travel fellows will also be introduced.

All trainees are encouraged to come to the dinner. Due to the generous support of several donors, including Novo Nordisk, dinner tickets for trainees are offered at the highly reduced rate of only $20! Tickets for faculty are only $40 (still a significant bargain for DC).

This year tickets will be available for purchase online from the APS-CEPS WEBSITE. Be sure to watch your email for an announcement of when the purchasing site is open. Please plan to purchase your tickets in advance as there will be limited seating for this popular event. A limited number of tickets will be available for purchase at the APS office during EB. However NO tickets will be sold at the door of the restaurant this year.

If you have any questions regarding the dinner or have difficulty purchasing tickets online, please contact Karen Sweazea at Karen.Sweazea@asu.edu or 480-252-5286
News from Trainee Advisory Committee
Kelly Hyndman, CEPS Representative

It’s that time again to be thinking of submitting your abstracts for EB 2011 in Washington D.C. Once again CEPS and the APS have awards. These include: The Travel Award Sponsored by Novo Nordisk; Research Recognition Award; and New Investigator Award. These awards are easy to apply for and carry a cash award plus free registration to the meeting! All three are due by December 3, 2009 (see above).

I would like to point out a couple of Trainee relevant sessions that will be held at EB2011:

- Sunday April 10, “Publishing 101: Dos and Don’ts of Publishing in APS Journals” by Kim E. Barrett and Rita Scheman
- Monday April 11, “New Opportunities in Non-traditional Academic Positions” by Tom Cunningham and John Immig
- Wednesday April 12, “Developing an Individual Development Plan – A Roadmap to Success.” by Melissa Bates and Grant Simmons
- Wednesday April 12, “Work/Life Balance: Every Choice Matters” by Sue Duckles and Sarah Lindsey

Another opportunity for trainees is to attend the 2011 Professional Skills Training Course: “Writing and Reviewing for Scientific Journals.” This course will be held January 6-9, 2011 at Disney’s Contemporary Resort in Lake Buena Vista, Florida. APS is subsidizing half of the onsite cost so participants pay only for their travel to and from Orlando and $800 for the course, which includes materials and instructor support, meals, hotel, and ground transportation in Orlando. Applications are being accepted on a rolling basis until December 1st. Trainees may apply at the following website: http://www.the-aps.org/education/profskills/upcoming.htm.

As always, please keep in touch with all things Trainee related by subscribing to the CEPS listserv, our Facebook “American Physiological Society Trainees” Fan page, our Twitter account: APSTrainees, and our regular APS page http://www.the-aps.org/trainees/index.htm.

If you have any questions or concerns please contact me khyndman@mail.mcg.edu.

EB2012 – San Diego, CA, April 21-25, 2012

The Experimental Biology 2012 meeting will be held in San Diego, CA, April 21-25, 2012. It is not too early to be thinking about ideas for symposia or featured topic proposals for the 2012 meeting. For more information about submitting proposals see http://www.the-aps.org/meetings/eb.htm or contact Barney Rees at bree@uno.edu. Proposals for symposia and featured topics should be submitted by April 1, 2011. Proposals will be discussed and decided upon at the CEPS Steering Committee meeting at the EB2011 meeting.
Physiologists in Industry Message

The Physiologists in Industry Committee (PIC) is committed to fostering interactions between the APS and industry. PIC not only sponsors symposia (see below), but also gives away money to junior investigators, and as Yogi says “it's just the same as cash!” Below are some PIC-sponsored events for Experimental Biology 2011 that are of interest to Comparative Physiologists.

Novel Disease Model Award: The Novel Disease Model Award, sponsored by the PIC and the APS, recognizes one graduate student ($500) and one postdoctoral fellow ($800) who submit the best abstract describing a disease model that is novel or has significant potential to be applied to the drug discovery process. The application for the award can be found on by visiting the APS website and following the “Section Awards” link (“Physiologists In Industry”) from the EB’11 page, or by clicking on the “Committees” tab on the APS homepage and going to the PIC page. Read the directions carefully. Comparative physiologists miss the boat on this – your work really is important, promulgate it!!

Symposia 2011: The PIC is continuing its tradition of sponsoring high quality symposia relevant to industry and academic scientists. The annual PIC Symposium at EB ’11 is entitled “Stem Cells and Drug Discovery”. The symposium will highlight recent advances regarding the rapidly evolving field of stem cell technology, how stem cells are enabling preclinical drug discovery and development, how pluripotent stem-cell derived cardiomyocytes and beta-cells may be applied to cardiovascular and diabetes drug discovery, respectively. Speakers for the Physiologists in Industry Symposium include Dr. Sheng Ding, (Scripps Research Institute), Dr. John Hambor (The Cell Therapy Group), Dr. Timothy Kamps (University of Wisconsin), and Dr. Lawrence Chan (Baylor College of Medicine).

The PIC has also successfully competed for the EB ’11 Translational Physiology symposium “The Cardiac Sarcomere as a Therapeutic Target”. The symposium will highlight recent insights into mechanisms regulating cardiac function at the sarcomere level while highlighting novel emerging therapies to improve cardiac performance. The program has commitments from Dr. Kerry MacDonald (University of Missouri School of Medicine), Dr. Henk E.D.J. ter Keurs (University of Calgary) and Dr. Elizabeth McNally (University of Chicago Medical Center), and Dr. R. John Solaro (University of Illinois at Chicago). Attendees will gain an appreciation for the translational nature of studying and targeting the cardiac sarcomere.

Ken Olson
CEPS Representative

Future APS Intersociety Meeting in Comparative and Evolutionary Physiology

The CEPS membership overwhelming supports future APS Intersociety meetings in comparative and evolutionary physiology. A number of ideas for themes, locations, and potential organizers have been informally kicked about. Now is the time to start formalizing plans for a future meeting, probably for 2014. Accordingly, the CEPS Steering Committee would like to invite persons interested in potentially organizing, or helping to organize, the next APS Intersociety meeting to forward their ideas for theme, venue, and potential symposium topics to Barney Rees at bree@uno.edu. These short proposals (1 page) should be submitted by April 1, 2011. The CEPS Steering Committee will consider these proposals at the business meeting during the EB2011 meeting.
The recent APS Intersociety meeting on Global change and global science: comparative physiology in a changing world was a smashing success by all accounts. With two plenary lectures, 11 symposia, and dozens of posters, the scientific program was replete with exciting and important developments in comparative physiology, especially focusing on the contributions of this area to understanding organismal and ecological responses to global climate change. A post-meeting survey indicated that nearly 70% of the attendees ranked it as one of the best meetings they have attended recently. Many thanks to Jon Harrison and the organizing committee for putting on such an exciting and informative meeting!!

Award Winners at Comparative Physiology 2010 Meeting

At the APS Intersociety Meeting in Westminster, seven young investigators received recognition as winners of the highly competitive Scholander Competition. Caroline Williams (University of Western Ontario, second from left) received the Scholander Award sponsored by CEPS, GlaxoSmithKline, and PBZ for her presentation entitled “Energetic costs of increasing thermal variability: An exploration of the mitigating effects of plasticity in Lepidoptera”. The winner was congratulated by Chair of the Organizing Committee, Jon Harrison (far left), PBZ Representative, Patricia Schulte (second from right), and CEPS Section Chair, David Goldstein (far right).

The best poster award sponsored by Sable Systems International was presented to Rudolf Schilder (Penn State, left) for “Body weight-sensitive regulation of skeletal muscle composition”. Brent Lockwood (Stanford University, second from left), Gigi Lau (University of British Columbia, third from left), and Jonathan Stecyk (University of Oslo, fourth from left) were finalists for the Poster Competition. Catalina Reyes and Jessica Meir (University of British Columbia, second from right and far right, respectively) were honored with the awards for Outstanding Oral Presentations.

In addition, 31 Travel Fellowships were awarded to graduate students and postdoctoral fellows (below).
Award Winners at Experimental Biology 2010

Rudy Ortiz, Ph.D. (University of California, Merced) accepting his New Investigator Award from William Karasov Ph.D., the 2010 August Krogh Distinguished Lecturer. The award recognizes outstanding investigators in the early stages of their careers.

Daniel Warren, Ph.D. (University of California, San Francisco) accepting his Research Recognition Award. The award was based on Dan’s impressive vitae and good comparative research using new approaches.

Jessica Otis (University of Wisconsin, Madison, left) and Cassandra Williams (Scripps Institution of Oceanography, right) receiving their Novo Nordisk Travel Awards.

Other Meetings of Interest

- Society for Integrative and Comparative Biology (SICB) meeting, January 3-7, 2011, Salt Lake City, UT, see http://www.sicb.org/meetings/2011/


- 8th International Congress of Comparative Physiology & Biochemistry, June 1-5, 2011, Nagoya, Japan, see http://www.iccpen.com/

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