Greetings, CEPS members,

2008 has been a rich year for conferences in Comparative Physiology. For me, highlights included Experimental Biology last April (which featured great strength in programming of interest to our section) and the Fourth International Conference in Comparative Physiology and Biochemistry in Maasai Mara, Kenya, in July. At both conferences, the diversity and vitality of research in our field was striking. Remarkable advances in analytical approaches ranged from remote monitoring of physiological performance to high resolution imaging of living systems to emerging applications of molecular biology and bioinformatics. The combination of these methodological approaches with an appreciation for the power of nature’s grand experiment—evolutionary change and organismal diversity—provides unprecedented opportunities for Comparative Physiology to contribute to advancing Physiology more generally.

Attending Experimental Biology and Mara also highlighted the obvious contrasts, including both the benefits and the disadvantages, of a large meeting in a large city compared with a small conference in a constrained venue. There is much to be said for both. As we move forward with planning upcoming APS meetings, we will make every effort to evoke the strengths of both formats: a strong scientific program, a breadth of presentations, and opportunities to engage with colleagues in a stimulating environment. Certainly New Orleans, site of Experimental Biology 2009, should provide those opportunities.

It is now critical to the health of our Section that we participate in that EB programming. The APS Council is considering a schedule of programming review that will, in future years, tie the number of allocated sessions (Symposia and Featured Topics) to the participation by members of the sections. Thus, I strongly encourage you to attend the meeting, and to submit your abstracts to the CEPS topic categories.

--David Goldstein

2009 CEPS Dinner and Business Meeting

Our Dinner-Business Meeting will be held on Tuesday, April 21, 2009 at 6 PM, at Mulate’s Restaurant, which is within walking distance of the convention center. All CEPS members, postdoctoral fellows and students are encouraged to attend and meet the Krogh Distinguished Lecturer and honored guest, Dr. William Milsom. The CEPS New investigator and Research Recognition Awards recipients and Novo Nordisk Foundation Travel fellows will be introduced and the Scholander competition winner announced.

For more information, contact Alice Villalobos, avillalobos@ag.tamu.edu.
The August Krogh Distinguished Lectureship recognizes excellence in contributions to the field of Comparative and Evolutionary Physiology. It is the highest award given by our Section.

**2009 Krogh Lecturer:** Dr. William (Bill) Milsom received his M.Sc. in 1974, under the mentorship of Kjell Johansen, and his Ph.D. in 1978 from the University of British Columbia, where he studied with David Jones, another Krogh Award recipient. Dr. Milsom has remained at that latter institution until the present, rising through the ranks from Research Associate to Professor and Head of Department. Milsom’s web page denotes his area of research as “determining the physiological basis for biodiversity in vertebrates.” Most of his work toward that end has revolved around respiratory systems and gas exchange, in all manner of vertebrates, and with approaches ranging from organismal to molecular. In the process, he has supervised more than three dozen M.Sc., Ph.D., and post-doctoral trainees in his laboratory. In addition to his research contributions, Dr. Milsom has been highly engaged in service to the community of Comparative Physiology, serving on numerous editorial boards (American Journal of Physiology, Respiration Physiology, Physiological and Biochemical Zoology, and others), taking leadership roles in societies (including President of the IUBS Comparative Section and President of the Canadian Society of Zoologists), and organizing numerous conferences and symposia. Clearly Dr. Bill Milsom has exemplified excellence in contribution to our field.

**EB 2009: April 18-22 in New Orleans!**

We have some strong comparative programming in a great location. The following items are set; our second poster session will be set in December.

**Sunday April 19, 10:30 AM**

**Sunday April 19, afternoon**
*Scholander Poster session*

**Monday, April 20, 8:00 AM**

**Monday, April 20, 10:30 AM**

**Tuesday, April 21, 8:00 AM**
The August Krogh Distinguished Lecture: William Milsom, Univ. of British Columbia. Bill has been a leading member of the CEP section for many years, with an outstanding research program in respiratory physiology. He is also an excellent and entertaining speaker. *Don’t miss it!*

**Wednesday, April 22, 10:30 AM**

Remember that most of the oral presentations for the featured topic sessions are chosen from your submitted abstracts; if you think your topic fits loosely with the featured topic, please choose it! You will also present a poster. This is a great way to get more exposure for your research!
Call for 2010 Krogh Award Nominations

Note that the process for selecting the recipient of the Krogh award has been revised fairly recently. We are now accepting nominations for the 2010 Krogh Lecturer. To nominate a candidate, please send the name of your nominee, along with up to 5 letters of support, to the Chair of the CEPS Steering Committee by March 1, 2009. The steering committee will generate a slate from those nominees, and that slate will be put to the membership for voting.

Publication from 2008 Krogh Distinguished Lecture

Dr. David Evans, recipient of the 2008 Krogh Award, has initiated what we hope will be a continuing tradition. That is, he provided a review article for the American Journal of Physiology based on his Krogh lecture. You can find that article, which ranges from a discussion of Krogh’s research in the 1930s to speculation about insights yet to come, at Am. J. Phys. Regulatory Integrative Comp Physiol 295: 704 – 713.

News from Trainee Advisory Committee

Karen Sweazea, CEPS Representative

The Trainee Advisory Committee is pleased to announce the winner of our Early Career Professional Service Award, Diane Munzenmaier! For more information, please visit the August edition of The Physiologist: http://www.the-aps.org/publications/tphys/tphys8x08.pdf

The CEP Section Steering Committee encourages trainees to become more involved at the upcoming EB meeting in New Orleans, LA, next April. Abstract submissions for this meeting will be opening up this Fall. I encourage you to submit an abstract and apply for the many awards offered through our section. To apply for available awards visit: http://www.the-aps.org/sections/compar/index.htm. Please also plan to attend the “Mentoring Strategies: Beyond the Bench” symposium at EB 2009 that is chaired by the Trainee Advisory Committee of APS. For more information, visit the APS trainee website: http://www.the-aps.org/trainees/index.html

All APS trainee members are eligible to participate in a program called MentorNet, which is a program designed to provide protegés (trainees) constructive, one-on-one, email-based mentoring relationships with mentors from a variety of disciplines: industry, government, and higher education. Please consider joining as a protegé and/or as a mentor!

If you have not already done so, please visit the APS trainee website located at http://www.the-aps.org/trainees/index.htm which contains a wealth of resources for trainees. Check out the mentoring forum which is a discussion board covering a variety of topics related to mentoring and starting careers in physiology. Keep up-to-date with trainee related events and news by subscribing to the trainee newsletter. Sign-up for this listserv by clicking on the link on the trainee homepage.

Please feel free to contact me with any questions. (Karen.Sweazea@asu.edu)
Greetings from your Liaison with Industry Committee (LWIC) representative. The LWIC is committed to fostering interactions between the APS and industry. Below you will find some LWIC-sponsored events for Experimental Biology 2009 that Comparative Section members won’t want to miss! I’d like to call special attention to the Novel Disease Model Award. This is a tremendous opportunity for Comparative Physiology to “show off”.

Ken Olson, CEP Representative

Symposia 2009: The LWIC is continuing its tradition of sponsoring high quality symposia relevant to industry and academic scientists. The annual LWIC Symposium at EB ‘09 is entitled “Molecular Imaging of Physiological Processes in Drug Discovery”. The symposium will highlight recent advances in the field of In Vivo molecular imaging of disease processes, biomarkers, and novel therapeutic targets and has commitments from Dr. William Strauss, M.D. (Memorial Sloan-Kettering Cancer Center), Dr. Adriana Maggi, Ph.D. (University of Milan), Dr. Paul Acton, Ph.D. (Johnson & Johnson Pharmaceuticals), and Dr. Farouc A. Jaffer, M.D., Ph.D. (Harvard Medical School).

The committee has also successfully competed for the EB ’09 Translational Physiology symposium; it is entitled “Fibrosis: Signaling, Physiology, and Therapies”. The symposium will discuss recent advances in the field of pathological fibrosis and potential therapeutic approaches to its treatment. Speakers for the Translational Physiology Symposium include Dr. Scott L. Friedman, M.D. (Mount Sinai School of Medicine), Dr. Eric G. Neilson, M.D. (Vanderbilt University School of Medicine), Dr. Scott Lonning, DVM, Ph.D. (Genzyme), and Dr. Kevin K. Brown, M.D. (National Jewish Medical and Research Center).

Novel Disease Model Award: A reminder that abstract submissions to EB ’09 are NOT that far away! The Novel Disease Model Award, sponsored by the LWIC 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’09 page, or by clicking on the “Committees” tab on the APS homepage and going to the LWIC page.

Awards for Experimental Biology 2009

Application Deadline: December 3, 2008

The CEP section has several awards available to support attendance at the EB09 meeting. These include:

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.

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.

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

CEP Scholander Award ($500, one year complimentary membership in APS, a copy of the Per Scholander biography Enjoying a Life in Science, Univ. of Alaska Press, 1990, and reimbursement of the registration fee) will be presented to an outstanding young investigator presenting a paper in the “Scholander Award” Session at the spring meeting.

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!

http://www.the-aps.org/meetings/eb09/awards/comparative.htm
For EB 2010, CEP will have one section symposium and three featured topics. Section symposia and featured topic proposals (http://www.the-aps.org/meetings/eb.htm) should be submitted to Jon Harrison (j.harrison@asu.edu) by April 1, 2009. Cross-sectional and sectional symposia receive $4,000 to support attendance of the speakers, and complimentary registration for four speakers. Extra funds may be available for international speakers, who are encouraged. Featured topics will have one invited speaker, $1,000-2,000 of funding (total amount still under discussion), and additional oral talks selected from submitted abstracts. APS does a great job of supporting our programming, so take advantage of this to help organize an excellent meeting!

Experimental Biology 2010 will be held in Anaheim, CA April 24-28. Cross-sectional symposia for this meeting are decided on at the December, 2008 program officers’ meeting, so this deadline is coming up fast. The form is here: (http://www.the-aps.org/meetings/eb.htm); these should be submitted through Jon Harrison (CEP Program officer, j.harrison@asu.edu) ASAP. However, to get these funded, it is critical to work with program officers for multiple sections, so think about topics that could attract interest from multiple APS sections, and also work with program officers from other sections or groups. Click here (http://www.the-aps.org/sections/) to see all the APS sections and groups; select these individually to find contact information for the relevant program officer.

Our proposal has not yet been accepted by the APS, so we cannot officially announce this meeting, but we want you to put it on your calendar (and financial planning book) anyway. The meeting will be held in the last week of July or first week of August, 2010, in a location to be chosen soon. Here is the executive summary from the proposal submitted to APS.

This APS Intersociety meeting would be the fifth in a series of meetings, held every four years, on the topic of comparative and evolutionary physiology. This has been a highly successful series, averaging over 500 attendees, with a high fraction of international scientists. This series is one of two international meetings that occur regularly for the field of Comparative and Evolutionary Physiology, with the other being the International Congress in Comparative Physiology & Biochemistry (ICCPB) series, which was held in Brazil in 2007, and will be held again in 2011. Traditionally the APS meetings have been nearly twice as large as the ICCPB meetings, very international, and therefore extremely important for unifying international comparative physiology.

The theme of this meeting will be how comparative and evolutionary animal physiologists can contribute to understanding the consequences of global change and how understanding global change requires broad, global science. To our knowledge, this will be the first conference of any type to focus on the effects of global climate change on animal physiology. Increasing societal focus on the challenges of global climate change is bringing new funding opportunities, and another goal of this meeting is to include workshops to introduce comparative animal physiologists to funding opportunities associated with private funding agencies and to alternate careers. This meeting is also designed to provide strong scientific program with participant interaction and emphasize emerging research performed by young investigators.

Organizing Committee
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At the Experimental Biology Meeting in San Diego, CA, eight young investigators received recognition as winners of the competitive CEPS awards.

Congratulations to all the awardees for their outstanding contributions to comparative physiology research!

Peter Piermarini, Ph.D. (Cornell University) accepting his New Investigator Award from David Evans, Ph.D., the 2008 August Krogh Distinguished Lecturer. The award recognizes outstanding investigators in the early stages of their career.

Keith Choe, Ph.D. (Vanderbilt University) accepting his Research Recognition Award from David Evans, Ph.D., the 2008 August Krogh Distinguished Lecturer. The award was based on Keith’s impressive vitae and two presentations on cell volume regulation.

Shawn Noren, Ph.D. (University of California, Santa Cruz) accepting her Research Recognition Award from David Evans, Ph.D., the 2008 August Krogh Distinguished Lecturer. The award was based on Shawn’s impressive vitae and two presentations on diving marine mammals.

Jason Treberg, Ph.D. (Memorial University of Newfoundland) accepting his Research Recognition Award from David Evans, Ph.D., the 2008 August Krogh Distinguished Lecturer. The award was based on Jason’s impressive vitae and two presentations on organic osmolyte metabolism.
Highlights from Experimental Biology 2008

Scott Graham (University of British Columbia, William Milsom, advisor) receiving the Scholander Award for best poster by a young investigator from Dr. Evans for his presentation on “Control of mitochondrial respiration in flight muscle of barheaded geese”.

Kelly Hyndman (University of Florida) receiving her Novo Nordisk Travel Award. Kelly was an author on three presentations at EB related to Na"/H" antiporter in fishes!

Matthew Pamenter (University of Toronto) receiving his Novo Nordisk Travel Award for his research on mechanisms of electrical depression in anoxic turtle brain.

Scott Graham (University of British Columbia, William Milsom, advisor) receiving the Scholander Award for best poster by a young investigator from Dr. Evans for his presentation on “Control of mitochondrial respiration in flight muscle of barheaded geese”.

Maleka Khambaty (East Tennessee State University, Tom Ecay, advisor) receiving the Undergraduate Award for best poster from Dr. Evans for her presentation on “Developmental expression of carbonic anhydrase II in the extraembryonic membranes of the corn snake, Pantherophis guttatus”.

FALL 2008 CEPS NEWSLETTER
Represent CEPS on APS Committees

We would like to have CEPS represented on all APS standing committees. There are position openings on most of the committees for 2010. Many of these committees also have trainee members. Our section can become more active in the APS affairs, so please nominate yourself or someone else to serve on the various standing committees of APS. The information on the charge of each committee is located on the APS website (www.the-aps.org/committees).

The process for committee nomination includes filling out a Candidate Information Form and getting an APS member to fill out an Endorsement Form for you (any member of the CEPS Steering Committee will be happy to do this for you). Both forms can be found at www.the-aps.org/committees/nominate.htm.

The deadline for submitting the forms is January 16, 2009 for 2010 committee appointments.