Greetings, CEPS members,

Once again, the forthcoming Experimental Biology meeting promises to be a strong one for Comparative Physiology. With one of our own (President Hannah Carey) at the helm of the society, the meeting will include a number of prominent speakers and symposia on topics in comparative physiology, in addition to those regularly scheduled by the section. I join Hannah in urging you to present a show of strength from our section at this meeting. The abstract submission deadline is November 7.

As noted elsewhere in this newsletter, there continues to be a fairly regular series of international meetings in comparative physiology: Salvador, Brazil (ICCPB) this past summer, Mara, Kenya in 2008, Kyoto, Japan in 2009. Nevertheless, in the US, the annual Experimental Biology conference remains the premier gathering place for our profession. Although the meetings are exciting each year, we continue to seek mechanisms to draw greater attendance and participation from comparative physiologists. As part of this discussion, we have explored the possibility of modifying the format of our section’s business gathering, which for many years has accompanied a mid-meeting luncheon. Would an evening gathering be preferable? Should we incorporate a discussion session based on selected posters? Should we have a scheduled social gathering separate from the business meeting? We welcome your thoughts. If you do come to EB meetings: are there changes you would like to see? And if you have not attended regularly: are there particular elements that might attract your participation? Feel free to send your suggestions to any member of the steering committee—or come to EB in San Diego and tell us your thoughts there!

--David Goldstein

David Evans: 2008 Krogh Distinguished Lecturer

The August Krogh Distinguished Lectureship of the Comparative and Evolutionary Physiology Section will be presented by David Evans, Professor Emeritus in the Department of Zoology at the University of Florida on Monday April 7, 2008 at 3:15 pm. Dave will speak on the topic of “Osmoregulation in Fishes: What have we learned since August Krogh, Homer Smith, and Ancel Keys?”

Dr. David Evans received his Ph.D. in 1967 from Stanford University. Two years later he moved to Florida, where he has held faculty positions at the University of Miami and, since 1981, at the University of Florida. Evans has published approximately 125 articles and chapters on the physiology of fishes, mostly related to aspects of osmoregulation, epithelial transport, endocrinology, pH regulation, and nitrogen metabolism. He has edited 3 editions of The Physiology of Fishes. Evans has a long-standing affiliation with the Mount Desert Island Biological Laboratory, including service as Director of the Laboratory for 9 years and Director of its Center for Membrane Toxicity Studies for 7. Among Evans’ numerous honors are being named University of Florida Scholar/Teacher of the Year and being elected a Fellow of the AAAS.
The CEP section has several awards available to support attendance at the EB08 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 Luncheon and offered the opportunity to organize scientific sessions at subsequent meetings.

Don’t let these awards go unclaimed!

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### News from Trainee Advisory Committee

**Karen Sweazea, CEP Representative**

Over the past year the CEP Section has been keeping trainees quite involved by offering many awards and the ability for trainees to showcase their research in poster as well as oral presentations at the Experimental Biology meeting (see above), so please stay involved at the upcoming EB meeting in San Diego, California next Spring. 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](http://www.the-aps.org/sections/compar/index.htm).

Another benefit for trainee members is that all trainees are also given a highly discounted price into the CEPS luncheon at EB.

As there was a general lack of interest in forming a CEPS Trainee Subcommittee, we will not be forming one at this time.

If you have not already done so, please visit The APS trainee website located at [http://www.the-aps.org/trainees/index.htm](http://www.the-aps.org/trainees/index.htm) which contains a wealth of resources for trainees. 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 “Trainee Newsletters” link on the trainee homepage.

Please feel free to contact me with any questions (ksweazea@salud.unm.edu).

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### 2008 CEPS Luncheon and Business Meeting

Our Luncheon-Business Meeting will be held on **Tuesday, April 8, from 12:45 - 2:00 pm**. Look for future postings for the final venue.

All CEPS members, post-doctoral fellows and students are encouraged to attend and meet the 2008 Krogh Distinguished Lecturer and honored guest, Dr. David Evans.

The CEPS Research Recognition Award recipient and Novo Nordisk Foundation Travel fellows will be introduced and the Scholander competition winner announced.
EB 2008: Comparative Physiology at the Forefront

Experimental Biology 2008 will meet from April 5-9, 2008, in San Diego. This meeting of Experimental Biology occurs under the APS presidency of Hannah Carey, long-standing member of the Comparative and Evolutionary Physiology Section. **Plan to attend this meeting, and join Hannah in highlighting the strength of comparative physiology!**

In keeping with the “One Physiology” theme from her introductory essay (Physiologist 50 (2), April, 2007); http://www.the-aps.org/publications/ tphys/2007html/April/apspresident.htm. Hannah brings an integrative comparative perspective to her Physiology In Focus programming, including symposia organized by Hannah Carey (Physiology and Global Health), Terrie Williams (Physiological Basis of Ecosystem Health), Anne KPOSITEK (Global Physiological “Omics”: Microbes to Medicine), and Helen Raybould (Physiology and Lifestyle). This will be on **Monday AM, April 7.**

The Cannon Memorial Lecture will be presented this year by Barbara Block, Charles & Elizabeth Prothro Professor in Marine Sciences at Stanford University and the Hopkins Marine Station.

We will host our **Scholander Award poster session** on the afternoon of Sunday, April 6.

Our **Comparative Physiology luncheon** will be **Tuesday, 12:45 PM, April 8.**

As usual, the CEP Section will host one symposium and three Featured Topic sessions at this EB meeting. These include sessions on:
- **Mechanisms of metabolic depression**, organized by Frank van Breukelen and Jason Podrabsky (Wednesday AM, April 9)
- **Comparative immunology: using non-model systems to understand the evolution of immunity**, organized by Kendra Greenlee (**Wednesday AM, April 9**)
- **Diving physiology of mammals and birds**, organized by Andreas Fahlman (**Tuesday AM, April 8**)
- **Signaling and control of skeletal muscle remodeling**, organized by Ruud Schilder (**Sunday AM, April 6**)

Other programming information for EB is available at: http://www.the-aps.org/meetings/eb08/program.htm.

The abstract submission deadline for EB08 will be **Wednesday, Nov. 7, so don’t delay!**

**Call for 2009 Krogh Award Nominations**

The August Krogh Distinguished Lectureship is the highest award given by our section. The process for naming the recipient of that award has changed periodically over the years; in recent years, that responsibility has rested with the Steering Committee. At the EB meeting, the CEPS Steering Committee agreed that the section membership should have a greater role in the selection process. Thus, we are now seeking nominations for the 2009 Krogh Lecturer. Please send the name of your nominee, along with up to 5 letters of support, to any member of the steering committee by January 31, 2008. The steering committee will generate a slate from those nominees, and that slate will be put to the membership for voting.

**Upcoming Meetings of Interest**

- **24th Annual Meeting of the Australian and New Zealand Society for Comparative Physiologists and Biochemists**
  December 1-2, 2007, Perth
  http://www.zoo.latrobe.edu.au/ANZSCPb/

- **SICB**
  January 2-6, 2008, San Antonio Marriott River Center
  http://www.sicb.org/meetings/2008/

- **4th International Conference in Africa for Comparative Physiology & Biochemistry**
  http://www.natural-events.com/mara/

- **IUPS Physiology Congress 2009**
  July 27 - August 1, 2009, Kyoto, Japan
  http://www.iups2009.com/
Below you will find a summary of the activities of the LWIC. The charge of this committee is to strengthen ties between colleagues in industry and academia. As I attended my first meeting last spring and met the other committee members it was my perception that “industry” meant pharmaceutical companies. However, I was weaned as a comparative physiologist and “industry” to me also means Government agencies, especially those in fisheries. I’m sure many of you can think of others and I think the Comparative Physiology section could and should include them. I would appreciate your thoughts/comments on how to best do this. (Note there is no connection between this request and the upcoming LWIC sponsored Symposium.)

Meeting Summary:
The LWIC is sponsoring a Symposium entitled "IBS-C and Chronic Constipation: Mechanisms and Novel Treatments" at EB2008 on Monday, April 7th from 3:15 – 5:15 PM. This symposium organized by Shaila Basavappa, Gastrointestinal and Liver Physiology Section representative to LWIC, will focus on two GI disorders that affect ~15-25% of the US population, Irritable Bowel Syndrome (IBS) and chronic idiopathic constipation. The proposed mechanisms underlying these conditions and potential treatments and their cellular pathways will be presented. LWIC is also organizing a Translational Symposium entitled “Recent Advances in the Renin-Angiotensin-Aldosterone System for the Investigation and Treatment of Hypertension” at EB2008 on Sunday, April 6th from 8:00 – 10:00 AM. This symposium organized by Christine Schnackenberg, former W&EH Section representative to the LWIC, will focus on recent molecular, cellular, whole-animal, and clinical advances in the Renin-Angiotensin-Aldosterone System. Look for the full program on-line at http://www.eb2008.org.

CEPS Representation 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 2009. 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 15, 2008 for 2009 committee appointments.
At the Experimental Biology Meeting in Washington, D.C., four young investigators received recognition as winners of the competitive CEPS awards.

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

Andreas Fahlman (University of British Columbia) accepting his Research Recognition Award from David Jones, Ph.D., the 2007 August Krogh Distinguished Lecturer. The award was based on Andreas’ impressive vitae and two presentations on diving in sea lions.

Shannon Simpson (La Trobe University, Peter Frappell, advisor) receiving the Scholander Award for best poster by a young investigator from Dr. Jones for her presentation on “Structure and function of the lung during postnatal development in a dasyurid marsupial, Sminthopsis crassicaudata.”

Shailaja Kesaraju (Florida Atlantic University) receiving her Novo Nordisk Travel Award. Shailaja was an author on three presentations at EB related to anoxia tolerance of turtles!

Amy Coleman (University of Connecticut) receiving her Novo Nordisk Travel Award for her research on mechanisms of uric acid secretion in avian kidneys.
Call for Proposals: EB 2009

Experimental Biology 2009 will be held in New Orleans, April 18-22. Cross-sectional proposals (http://www.the-aps.org/meetings/eb.htm) are due to APS in February 2008, and should be submitted to Jon Harrison (CEPS Program officer, j.harrison@asu.edu) by December 1, 2007. To get these funded, it is best to work with program officers from multiple sections.

CEPS will have one section symposium and three Featured Topics. Section symposia and Featured Topic proposals are due to Jon Harrison by March 1, 2008 (http://www.the-aps.org/meetings/eb.htm). 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 is 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!