Message from the Section Chair,  
Sinya Benyajati

2014 looks to be a good year for the Comparative and Evolutionary Physiology Section!  

As EB 2014 (April 26-30, 2014) approaches in San Diego, CA, I’d like to remind everyone that abstracts are due on November 8, 2013. Please try to submit exciting abstracts from your lab to one of the CEPS topics (see details in this newsletter). Your submission efforts are needed to increase the section’s level of participation at the annual EB meeting, ensuring our number of allocated sessions at future meetings.

CEPS enjoyed a successful meeting at EB 2013 in Boston. The Trainee Subcommittee organized the first annual CEPS Trainee Mixer before the dinner/business meeting, with 43 trainees in attendance. We also sponsored the first all CEPS Trainee Featured Topics session at EB 2013. Both trainee activities were a great success and an encore of both events will be among the features of the CEPS meeting at EB 2014. Another new trainee support in 2014 is a Travel Award sponsored by a generous donation from Dr. Dolittle, the comparative physiologist blogger of Life Lines. The deadline for all CEPS awards is December 6, 2013 (4 weeks after abstract submission deadline).

The year 2014 will bring another APS meeting that you should consider attending. Barney Rees is organizing the sixth iteration of the excellent quadrennial series of APS Intersociety Meeting in Comparative Physiology. This one will be also in San Diego, CA, on October 5-8, 2014, featuring a three-and-a-half-day meeting and an exciting scientific program that highlights research approaches utilizing the power of nature’s grand experiment – evolutionary change and organismal diversity – to advance Physiology. You can read the overview of the conference elsewhere in this newsletter.

In 2014 five new primary members of CEPS will begin their duties on various APS committees (total of 7 up from 5 in 2013). Congratulations are extended to Dan Warren (Animal Care), Dane Crossley (Conference), Barbara Hansen (Ray Dagg), Carissa Krane (Education), and William Johnson (Porter Development). If you want to serve on an APS committee, send your nomination and endorsement forms with CV to either myself (sinya-benyajati@ouhsc.edu) or Stan Hillyard (stanley.hillyard@unlv.edu; see his Committee on Committees Report below) and we will do the rest.

Important EB2014 Deadlines:

- November 8, 2013: Abstract Submission
- December 6, 2013: CEPS Awards Deadline
- February 21, 2014: Early Registration Discount
- March 21, 2014: Housing/Hotel Reservations
EB 2014 – San Diego, CA - April 26-30, 2014

Report from CEPS Program Officer, Scott Kirkton

The CEPS program at EB 2014 promises to be exciting and informative. It will include the annual August Krogh Lecture, two symposia, two featured topic sessions, and multiple poster sessions.

After its huge success last year, we will again have a featured topic session devoted exclusively to trainee presentations. To be considered for this featured topic session, trainees may submit their abstract to any poster session; however, they must indicate that they wish to make an “ORAL” presentation on their abstract submission. If selected, trainees will present both an “ORAL” presentation in the trainee featured topic session and a “POSTER” presentation in their selected poster session. The Trainee Featured Topic Session will be co-chaired by Barney Rees and Heidy Contreras. **Please note that the Scholander Award competition will occur at the 2014 APS Intersociety Comparative Physiology Meeting in October.**

The other featured topic session will focus on the Comparative Physiology of Aging and Senescence (co-chaired by Stephen Roberts and Scott Kirkton). Four speakers will be chosen from abstracts submitted to poster session 1100-APS. The speakers will present both an oral and poster presentation.

**ABSTRACTS! ABSTRACTS! ABSTRACTS!**

*The deadline to submit abstracts is Friday, November 8. Please submit your abstracts NOW! Be sure to select one of the CEPS Topic Areas for your abstract (1100 to 1105 APS).*

**Featured Topic**

1100-APS  Comparative Physiology of Aging and Senescence

**Posters**

1101-APS  Comparative cardiovascular and respiratory physiology
1102-APS  Comparative metabolic physiology, biochemistry and endocrinology
1103-APS  Comparative muscle physiology, locomotion and behavior
1104-APS  Comparative osmotic, ionic, and acid-base regulation
1105-ASP  Other comparative and evolutionary physiology

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).

![APS Experimental Biology (EB) 2014](http://www.experimentalbiology.org)
Dr. Carey has been unmatched in her service to academic physiology, serving in many capacities (committee members and Chair) for the American Gastroenterological Association, Federation of American Societies for Experimental Biology, International Union of Physiological Sciences, and the American Physiological Society, the latter for which she served as President from 2007 to 2008. Dr. Carey is also a tireless ambassador for comparative physiology in the scientific and lay communities. She served as a rotating Program Director for NSF Division of Integrative Organismal Systems (2010-2011), raising the visibility and stature of the discipline of Comparative and Evolutionary Physiology.
CEPS Dinner - Business Meeting

Mark your calendars! The annual Comparative and Evolutionary Physiology Section Dinner-Business Meeting will be held on **Monday, April 28** at The Horton Grand Hotel located a few blocks from the San Diego 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. Hannah Carey from the University of Wisconsin-Madison, School of Veterinary Medicine.

Recipients of the CEPS Research Recognition Award, New Investigator Award, Dr. Dolittle Travel Award, and Novo Nordisk Foundation Travel fellows will also be introduced.

All trainees are encouraged to attend the dinner and business meeting. Due to the generous support of several donors, including Novo Nordisk, dinner tickets for trainees are substantially discounted.

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.

NEW AWARD for EXPERIMENTAL BIOLOGY 2014: graduate students and post-docs take note!

Thanks to a generous donation from Dr. Dolittle, the comparative physiologist blogger on *Life Lines*, the CEPS offers a new abstract-and-blog-based award for graduate students and postdoctoral fellows:

**The Comparative and Evolutionary Physiology Section Travel Award sponsored by Dr. Dolittle** ($500 plus reimbursement of the advance registration fee) recognizes an outstanding graduate student or postdoctoral fellow (completed Ph.D. within the past 5 years) involved in comparative and evolutionary research. This award is designed to assist the award recipient to attend the annual APS Experimental Biology Meeting. For full description of this award and other CEPS awards, see: [http://www.the-aps.org/mm/awards/sections/comp-evol](http://www.the-aps.org/mm/awards/sections/comp-evol)

Awards for Students and Trainees – Apply Now!

Did you know our Section offers many awards to support student and trainee travel to EB and to recognize and encourage research for beginning scientists. In addition, the Society awards dozens, maybe hundreds of prizes and fellowships at EB and throughout the year to promising and deserving students and trainees.

**CEPS Awards for EB 2014**
[http://www.the-aps.org/mm/awards/sections/comp-evol](http://www.the-aps.org/mm/awards/sections/comp-evol)
- New Investigator Award
- Research Recognition Award
- Travel Award sponsored by Novo Nordisk Foundation
- Travel Award sponsored by Dr. Dolittle

**Society Awards for EB 2014 and Beyond**
[http://www.apsebmeeting.org/awards/index.htm](http://www.apsebmeeting.org/awards/index.htm)
- Porter Fellowship for Minorities
- Novel Disease Model Award
- APS Minority Travel Award
- Caroline tum Suden Awards
- Dale J. Benos Early Career Professional Service Award
**EB2013 Recap**

Following his lecture, CEPS Chair Sinya Benyajati presented Dr. Stan Lindstedt with the August Krogh Award.

At the CEPS banquet, Dr. Lindstedt presented Hiroko Nishimura, MD with a Certificate of Appreciation in recognition of her many years of dedicated service to the Section and as Associate Editor of AJP:Regulatory.

Trainees recognized at the annual CEPS Dinner. Awards presented by Stan Lindstedt.

- **New Investigator Award**
  - Graham Scott, McMaster Univ.

- **Research Recognition Award**
  - Martin Tesguerres, UC-San Diego
  - Joseph Santin, Wright State

- **Scholander Award**
  - John Eme, Univ. North Texas
  - John P. Carroll, Union College

- **Research Recognition Award**
  - Joseph Mueller, U. North Texas
  - Scholander Award

- **Novo Nordisk Travel Award**
  - Tamara Armstrong, U. Arizona
  - Novo Nordisk Travel Award
  - Joseph Santin, Wright State
Physiologist in Industry

Ken Olson, CEPS Representative

Greetings from your Physiologists in Industry Committee (PIC) representative. Several items of interest regarding the upcoming EB meeting:

The APS PIC is sponsoring a Symposium at EB 2014 entitled "NO, CO and H2S: Toxic Gases, Gasotransmitters and Therapeutic Targets" chaired by one of our own (me) and Catherine G. Clark, Ph.D. on Sunday, April 27, 8:00-10:00 am in room 24 of the San Diego Convention Center. This symposium is designed to get everyone “up to speed” on these signaling molecules and to show the recent developments in their potential as therapeutics.

Young investigators note this: The PIC Novel Disease Model Award will be granted to a graduate student and a postdoctoral fellow who submit the best abstracts at EB 2014 that describe a novel disease model. The model can be in vitro or in vivo but should clearly emphasize the potential utility of the system for future research related to a disease. This is made for Comparative Physiology! Note that the deadline to submit your application is now November 8th 2013, coinciding with the EB abstract date. The award is $500 for the graduate student and $800 for the postdoctoral fellow categories, respectively, and will be presented at the APS Business Meeting. Please read the directions carefully as all criteria are judged and scored – feel free to contact me if you have any questions (kolson@nd.edu).

You're invited! Come meet, eat and socialize with your fellow Physiologists who are working in the corporate, industrial, academic, or government sector. The 13th Annual Physiologists in Industry Committee Mixer will feature free hors d’oeuvres along with information on the roles of Physiologists in Industry - please check upcoming announcements for date, time, and place. This is a great opportunity to network with industry and academic APS members alike – we hope to see you there!

AJP - Regulatory, Integrative and Comparative Physiology

Ken Olson, Associate Editor

Greetings! I took over this position in July following the six-year and exemplary tenure of Hiroko Nishimura. In the past quarter, 123 manuscripts have been submitted to AJP-RIC and submissions continue to grow steadily. This is our flagship journal and I encourage you to keep this in mind when you prepare manuscripts. Submit to AJP-RIC and choose me as the associate editor and I will recruit the best and most appropriate reviewers. Remember, you can suggest reviewers, or recommend those you do not want. While not a 100% guarantee, this information is very helpful and I strongly recommend it. I’d also appreciate ideas on review articles you would like to see. If you have questions, contact me at kolson@nd.edu or see me at EB’14. Looking forward to receiving your manuscripts! Ken Olson

Committee on Committees

Stan Hillyard, CEPS representative

This is the right time of year for me to encourage CEPS members to consider application for APS committee service. Go to the Committees prompt on the APS website and navigate through the list of committees and their functions. This past year, a CEPS member joined the Animal Care and Use Committee, which is important since CEPS research often uses non-traditional animals and field studies. All committee service, such as Communications, gives CEPS membership a more visible presence in the Society. The last point is that committee selections by the CoC are made at the spring meeting and for each committee, applicants exceed vacancies. Further, unselected applicants in a given year receive some priority for the subsequent year. So, it is important to get your name in the system early and not be discouraged if not selected the first year. The job of the CEPS member on the CoC is to advocate for our section. Having a strong pool of applicants to speak for is important for this function. Deadline for submission is 17 January, 2014.
Announcing the 2014 APS Intersociety Meeting in Comparative Physiology

COMPARATIVE APPROACHES TO GRAND CHALLENGES IN PHYSIOLOGY
October 5-8, 2014

The next quadrennial APS Intersociety meeting in comparative physiology will be October 5-8, 2014 at the Town and Country Resort Hotel and Convention Center in sunny San Diego, California. This meeting will draw comparative and evolutionary physiologists from around the world to present and discuss recent advances in animal physiology. The three and a half day meeting will feature 15 symposia, 2 plenary lectures, 2 workshops, and multiple sessions for contributed abstracts as oral or poster presentations. This meeting will include the 2014 Scholander Award competition for young comparative physiologists, plus other trainee awards and activities. Currently scheduled sessions:

Plenary Lectures
Steven L. Chown, Monash University, Clayton, Australia
Patricia M. Schulte, University of British Columbia, Vancouver, Canada

Concurrent Symposium Track: Physiological Responses to Extreme or Changing Environments
Physiological adaptations to extremes: novel animal models for investigating health and disease (Hicks and Wang; organizers)
Cardiorespiratory physiology of vertebrate extremophiles (Meir and Scott; organizers)
Overcoming a major physiological barrier: adaptation from saline to freshwater habitats (Charmantier and Lee; organizers)
Responses to global change: Acclimatize, adapt, or die (Hofmann, Kelly, Evans; organizers)
Molecular and physiological features of animal diapause (Hand; organizer)

Concurrent Symposium Track: Evolutionary and Developmental Physiology
Genomics in integrative and comparative physiology (Crawford; organizer)
Diverse approaches in evolutionary physiology (Garland; organizer)
Challenges from the very beginning: developmental physiology, epigenetics, and critical windows (Eme and Mueller; organizers)
Evolution and developmental origins of endothermy (Owerkowicz and Dzialowski; organizers)
New perspectives on the ecology and evolution of homeostasis (Martin and Woods; organizers)

Concurrent Symposium Track: Transport, Digestion, and Locomotion
Frontiers in insect homeostasis – advantages and exploitation (Dow and Romero; organizers)
Recent ideas and advances in comparative epithelial physiology (Tresguerres and Goss; organizers)
Comparative gastrointestinal physiology: from genes to animal performance (German; organizer)
Determinants of skeletal muscle diversity (Azizi and Hernandez; organizers)
Linking behavior and physiology in animal navigation and orientation (Smolka and el Jundi; organizers)

Workshops
Trainee workshop: Non-traditional career paths for comparative physiologists (Williams and Rees; organizers)
The challenge of teaching physiology in a changing environment: innovations and resources (Ecay and Sweazea; organizers)

Other Activities and Events
Scholander Award competition
Publisher and vendor exhibits
Welcome reception
Daily poster sessions for presentations selected from abstracts
Twelve sessions for oral presentations selected from abstracts
Closing dinner and awards ceremony

Organizing Committee
Barney Rees (chair) Sinya Benyajati Heidi Contreras Peter Frappell Greg Goss
Jon Harrison Scott Kirkton Matt McHenry Holly Shiels Jonathon Stillman
Tobias Wang Cassondra Williams

Participating Societies (partial list)
American Physiological Society Society for Integrative and Comparative Biology
Society for Experimental Biology The Physiological Society
Canadian Society of Zoologists International Society for Neurochemistry
The Crustacean Society International Congress of Vertebrate Morphology
Western Society of Naturalists Australia and New Zealand Society for Comparative Physiology and Biochemistry

So, mark your calendars, tell your colleagues and students, and make plans to attend. The Call for Abstracts will occur early in 2014—be ready to present your best work at the best meeting for comparative and evolutionary physiology!
Other Meetings of Interest:

Society for Integrative and Comparative Biology (SICB) Annual Meeting
January 3-7, 2014, Austin, TX.
For details see:  http://www.sicb.org/meetings/2014/

2014 APS Workshop - APS Institute on Teaching and Learning
Bar Harbor, ME, June 23-27, 2014
**Important Deadlines:**
March 3, 2014 – Abstract Submission Deadline
March 21, 2014 – PST Registration/Registration Deadline
May 23, 2014 – Faculty Registration/Housing Deadline
For details see:  http://www.the-aps.org/mm/Conferences/APS-Conferences/2014-Conferences/ITL

5th International Symposium on Physiology and Pharmacology of Temperature Regulation
Skukuza, Kruger National Park, South Africa, 7-12 September 2014
**Meeting Theme:** Thermal Physiology in a Changing Thermal World
**Registration and Abstract Call:** November 2013 see:  www.wits.ac.za/conferences/pptr2014

Looking Ahead to EB 2015
**March 28- April 1, 2015, Boston, MA**

The Experimental Biology 2015 meeting will be held in Boston, MA, March 28-April 1, 2015. It is not too early to be thinking about ideas for symposia or featured topic proposals for the 2015 meeting. For more information about submitting proposals see  http://www.the-aps.org/mm/Conferences/EB or contact Scott Kirkton at kirktons@union.edu. Proposals for symposia and featured topics should be submitted by April 1, 2014. Proposals will be discussed and decided upon at the CEPS Steering Committee meeting at the EB 2014 meeting.

**Section Steering Committee**
[http://www.the-aps.org/mm/hp/Audiences/Sections/Sample-Category-4/Steering.pdf](http://www.the-aps.org/mm/hp/Audiences/Sections/Sample-Category-4/Steering.pdf)

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