1. **Edward Adolph Distinguished Lecture**: Michael Joyner, M.D.

   Adolph Lecture title: “Giant sucking sound: Can physiologists fill the intellectual void left by the reductionists”

   Michael Joyner – Adolph Lecturer

   The 2011 Adolph Lecturer is Michael Joyner, M.D. Dr. Joyner is Professor of Anesthesiology and Biomedical Engineering at the Mayo Clinic and is also the Deputy Director of Research at Mayo. The Adolph Lecture is given by an eminent research scholar making landmark contributions within the areas of either environmental, exercise and/or thermal physiology.

2. **EEP Honor Award**: Peter Raven, Ph.D.

   Peter Raven – Honor Award

   The 2011 EEP Honor Award winner is Peter Raven, Ph.D. Dr. Raven is currently Professor of Integrative Physiology and Assistant Dean of the Graduate School of Biomedical Sciences at the University of North Texas Health Science Center in Fort Worth, Texas. The Honor Award recognizes members of the EEP Section, 60 years of age or older, who have made significant life-long research contributions to the scientific advancement of environmental, exercise, or thermal physiology while enhancing the objectives of the section.
3. **EB11 Early Program of Lectures / Symposia / Featured Sessions**

Craig Crandall – EEP Program Representative

The 2011 American Physiological Society / Experimental Biology Meeting will be held in Washington, DC April 9-13. EEP Program Committee Representative Craig Crandall and the EEP steering committee have worked extremely hard to develop an outstanding EB 2011 program. A preview of the EEP programming for EB 2011 follows. **PLEASE NOTE THAT ALL EEP SESSIONS DURING EB 2011 ARE SCHEDULED FOR TUESDAY AND WEDNESDAY OF THE MEETING!**

**Tuesday April 12**

- Edward F. Adolph Distinguished Lectureship of the APS Environmental & Exercise Physiology Section (2 to 3 PM) – Michael Joyner
- Performance physiology in the heat: new concepts and controversies (Feature Topic; 8 to 10 AM) – Samuel Cheuvront
- Role of sex hormones in regulation of physiological and metabolic function of muscle (Feature Topic; 10:30 AM to 12:30 PM) – Espen Spangenburg
- Sympathetic and endothelial control of muscle blood flow in aging and hypertension (Symposium; 3:15 to 5:15 PM) – Michael Joyner and Bengt Saltin

**Wednesday April 13**

- Vascular adaptations to exercise in atherosclerosis (Feature Topic; 8 to 10 AM) – Grant Simmons and Jaume Padilla
- Cardiovascular consequences of type 2 diabetes on exercise capacity (Symposium; 10:30 AM to 12:30 PM) – Judith Regensteiner and Kerry Stewart
- Autophagy in skeletal muscle (Symposium; 3:15 to 5:15 PM) – Zhen Yan

**Non-EEP sponsored topics that are of interest to EEP membership**

Coupling Blood Flow to Metabolic Demand: New Insights and Perspectives – Steven Segal (Feature Topic; Monday 3:15 to 5:15 PM)

New Frontiers in Thermoregulation – Andrej Romanovsky and Clifford Saper (Symposium; Sunday 3:15 to 5:15 PM)

Toward a Blueprint of CNS Circuits Controlling Body Weight: Dissecting the Neuronal Regulation of Food Intake and Energy Metabolism; (Symposium; Monday 10:30 AM to 12:30 PM)
Balloons, Aeronauts and Mountain Tops: Contributions of Nathan Zuntz to High Altitude Physiology; Jay Dean (Symposium; Wednesday 10:30 AM to 12:30 PM)

Genetic and Molecular Influences on Skeletal Muscle Size and Strength Monica Hubal (Feature Topic; Wednesday 10:30 AM to 12:30 PM)

Molecular and Clinical Physiology in Human Disease: Physiology and Genetics of Obesity: Molecular Discovery and Translational Research; Kay Lund (Symposium Monday 3:15 to 5:15 PM)

4. **EB2011 EEP Abstract Sessions** - Please submit your EB abstract to one of the following EEP Topic Areas!

It is important that EEP members submit abstracts to EEP 2011 topic categories. The topic categories can be adjusted each year in response to section interests.

**Feature Topics**
- 1105-APS Performance physiology in the heat: new concepts and controversies
- 1106-APS Role of sex hormones in regulation of physiological and metabolic function of muscle
- 1107-APS Vascular adaptation to exercise in atherosclerosis

**Regular Topics**
- 1108-APS Altitude and hypoxia
- 1109-APS Cardiovascular responses to exercise
- 1110-APS Circadian and biological timekeeping
- 1111-APS Diving and hyperbaria
- 1112-APS Exercise metabolism and locomotion
- 1113-APS Exercise responses and training
- 1114-APS Fever and hypothermia
- 1115-APS Gravitation and space
- 1116-APS Metabolism in muscle
- 1117-APS Muscle plasticity and gene regulation/expression
- 1118-APS Neural control of the circulation during exercise
- 1119-APS Physiological adaptations to inactivity
- 1120-APS Respiratory responses to exercise
- 1121-APS Signaling in muscle
- 1122-APS Temperature regulation and fluid balance

5. **EB2011 - APPLY FOR EEP AWARDS**

Numerous EEP awards exist (e.g., Young Investigator, pre-doc- and post-doc awards) and eligible candidates are encouraged to apply for all awards. Take advantage of these opportunities! **All application materials must be completed online by November 3, 2010.** [http://www.the-aps.org/meetings/eb10/awards/eep.htm](http://www.the-aps.org/meetings/eb10/awards/eep.htm)

**Environmental and Exercise Physiology (EEP) New Investigator Award** ($1,000 plus reimbursement of the advance registration fee) recognizes an outstanding investigator in the early stages of his/her career. Candidates should be investigators who have made meritorious
contributions to the area represented by the EEP Section. They should not be above the rank of Assistant Professor or a comparable position in a research track at an academic institution or in industry (e.g. Scientist, Sr. Scientist, Research Investigator, etc.). They should receive nominations from at least two regular members of the APS. Candidates will be judged on their publications, how the publications relate to the EEP Section and evidence for independence and promise (grant funding, peer review activities, etc.). Although this is not an abstract-based award, awardees are expected to attend EB Meeting and make an oral or poster presentation. The candidate must be an APS member in good standing with a primary affiliation in the Environmental and Exercise Physiology Section. Candidates must upload: curriculum vitae, 2 nomination letters from APS members, and 3 reprints. Awardees are recognized at the EEP Awards Reception.

**Environmental & Exercise Physiology (EEP) Gatorade Beginning Investigator Award** ($750 plus reimbursement of the advance registration fee) is presented to a post-doctoral trainee whose investigation in either environmental, exercise or thermal physiology has been designated by the Steering Committee as an outstanding example of experimental research. Applicants must be first author on an abstract submitted to an EEP topic category at the 2011 EB meeting.

**Environmental & Exercise Physiology (EEP) Gatorade Predoctoral Investigator Award** ($600 plus reimbursement of the advance registration fee) is presented to a predoctoral graduate student whose investigation in either environmental, exercise, or thermal physiology has been designated by the Steering Committee as an outstanding example of experimental research. Applicants must be first author on an abstract submitted to an EEP topic category at the 2011 EB Meeting and have not received their advanced degree by the abstract deadline of November 3, 2010.

**Environmental & Exercise Physiology (EEP) Section Military Physiology Predoctoral Award** ($600 plus reimbursement of the advance registration fee) recognizes outstanding research in either environmental, exercise, or thermal physiology by a graduate student that is relevant to the physiological missions of the U.S. Armed Forces. Applicants must be first author on an abstract submitted to an EEP topic category at the EB 2011 and have not received their advanced degree by the date of the EB 2010 abstract deadline of November 3, 2010.

**Environmental & Exercise Physiology (EEP) Beginning Investigator Military Physiology Award** ($750 plus reimbursement of the advance registration fee) recognizes outstanding research in either environmental, exercise, or thermal physiology by a postdoctoral fellow or equivalent that is relevant to the physiological missions of the U.S. Armed Forces. Applicants must have received their advanced degree within four years of the EB 2010 abstract submission date of November 3, 2010 and must be first author on an abstract submitted to an EEP topic category at EB 2011.

**Environmental & Exercise Physiology (EEP) Space Biomedical Research Institute’s Predoctoral Gravitational Physiology Award** ($600 plus reimbursement of the advance registration fee) recognizes outstanding research related to gravitational physiology by a graduate student that is relevant to the physiological missions of the National Space Biomedical Research Institute (NSBRI). Applicants must be first author on an abstract submitted to an EB 2011 EEP topic category and have not received their advanced degree by the date of the EB abstract deadline of November 3, 2010.
Environmental & Exercise Physiology (EEP) Space Biomedical Research Institute’s Gravitational Physiology Beginning Investigator Award ($750 plus reimbursement of the advance registration fee) recognizes outstanding research related to gravitational physiology by a postdoctoral trainee that is relevant to the physiological missions of the National Space Biomedical Research Institute (NSBRI). Applicants must be first author on an abstract submitted to an EEP topic category at the 2011 EB Meeting.

Environmental & Exercise Physiology (EEP) Section Predoctoral Recognition Award ($500 plus reimbursement of the advanced registration fee) is presented to one or more pre-doctoral graduate students whose investigations in either environmental, exercise, or thermal physiology has been designated by the Steering Committee as being an example of meritorious research. Applicants must be first author on an abstract submitted to an EEP topic category at the 2011 EB Meeting and have not received their advanced degree by the abstract deadline of November 3, 2010.

Exercise Physiology (EEP) Section Recognition Award for Beginning Investigators ($500 plus reimbursement of the advanced registration fee) is presented to one or more postdoctoral trainees whose investigations in either environmental, exercise, or thermal physiology has been designated by the Steering Committee as being an example of meritorious research. Applicants must be first author on an abstract submitted to an EEP topic category at EB 2011.

6. Nominate EEP Councilors:

Terms will end for one EEP Councilor for Environmental Physiology and one EEP Councillor for Thermal Physiology. Provide names and resumes of EEP Councilor Nominations to Scott Powers. Email: spowers@hhp.ufl.edu

7. EEP / APS - News Update

Scott K. Powers – EEP Chair

EEP is Healthy & Growing

EEP total membership has increased from 1,757 (March 2009) to 2,281 (August 2010). EEP section has 977 primary and 1304 secondary affiliations. We challenge EEP members to encourage colleagues to join APS and our section. Also, please encourage graduate students and post-doctoral trainees to join APS and EEP.

Dates for EEP programming at EB 2011 (Washington, DC)

Note that all EEP programming at EB 2011 will be scheduled for Tuesday and Wednesday, April 12-13, 2011. Therefore, please make your travel and lodging arrangements to accommodate the EEP programming at EB.
APS awards

Please note that APS offers numerous awards for members. These include awards for teaching, service, mentoring, travel awards, early career awards, and distinguished research awards. For more details, please see the APS website:

http://www.the-aps.org/meetings/eb11/awards/EEP.htm

8. Welcome New EEP Members


Jerry Dempsey – Editor-In-Chief, Journal of Applied Physiology

Thank you for the opportunity to bring you up to date on the Journal of Applied Physiology. JAPPL currently receives about 1300 manuscripts per year. Our acceptance rate since 2005 has averaged 30-34% annually.

Our Point: Counterpoint series continues on an every other month basis. Many of the topics deal with environmental and/or exercise physiology and many of the authors are EEP members. I especially encourage beginning investigators to participate in these debates – either as a main author or as an author of a brief commentary (see


This fall we will have the following two Point: Counterpoint debates and we invite your commentaries.

  L. Gabriel Navar, Murray Esler, Elisabeth Lambert and Markus Schlaich
  
  **Point: Counterpoint: Chronic activation of the sympathetic nervous system is the dominant contributor to systemic hypertension VS. Activation of the Intrarenal Renin-Angiotensin System is the Dominant Contributor to Hypertension**

  o Commentaries may be submitted up until Sept. 17, 2010

Matthew D. White, Jesse G. Greiner, Patrick L.L. McDonald, Lars Nybo and Niels H. Secher
Point: Counterpoint: Humans do / do not demonstrate selective brain cooling during hyperthermia

- Commentaries may be submitted up until Nov. 15, 2010

Our “Viewpoint” manuscripts also continue on an every other month basis. The idea is to have fresh perspectives presented to the readership and in turn invite the readers to comment. So, dust off one of your favorite concepts that you have been developing over the years and send it along for peer review (see


This fall we will have a Viewpoint titled “The Two-Hour Marathon: Who and When?” by Michael Joyner, Jonatan Ruiz and Alajandro Lucia. Commentaries may be submitted up until Oct. 15, 2010.

The *J Appl Physiol* (ISI-generated) 2009 Impact Factor is now 3.8 which represents the citations in 2009 to manuscripts published in 2007 and 2008. The impact factor for JAPPL has increased steadily each year since 2005, a total of 21%. We hasten to add that despite this improvement in our IF and the importance attributed to the IF by many academic and grant-governing institutions, there are many serious problems with this index – both as a measure of journal quality and certainly of the quality of science published by individual investigators. Nevertheless, we believe this increase in the Impact Factor is just one index of the significant increase in the quality of physiologic findings published in the *J Appl Physiol* over the past few years.

2010-2011 is the final year of our six year editorship of JAPPL. Over the course of this term, we have enjoyed a close relationship with the EEP leadership and its members. We are especially grateful to chairman Mike Sawka for his efforts in strengthening this relationship. The APS is in the process of choosing a new editor-in-chief for JAPPL and we have every expectation that the JAPPL and EEP will continue their productive partnership under Scott Powers’ chairmanship.
Best wishes for a productive future.
Jerry Dempsey, PhD
Editor-in-Chief, JAPPL

10. Know Your Steering Committee

The following were elected to serve your interests. If you have any program or other ideas / concerns regarding APS and EEP issues please do not hesitate to contact the following:
Chair– Scott Powers - spowers@hhp.ufl.edu
ex officio, Past Chair- Mike Sawka - michael.sawka@us.army.mil
Joint Program Committee Representative – Craig Crandall craig.crandall@utsouthwestern.edu
Exercise Physiology Councilor - Peter Farrell - FARRELLP@ecu.edu
Exercise Physiology Councilor – George Brooks - gbrooks@berkeley.edu
Environmental Physiology Councilor - Sue Bloomfield - sbloom@tamu.edu
Environmental Physiology Councilor – John W. Castellani - john.castellani@us.army.mil
Thermal Physiology Councilor – Christopher Minson - minson@uoregon.edu
Thermal Physiology Councilor - Nisha Charkoudian - charkoudian.nisha@mayo.edu
Committee-on- Committees Representative – Kevin Kregel – Kevin-kregel@uiowa.edu
11. Opportunity to nominate classic papers in exercise and environmental physiology

EEP has been invited by APS to provide a list of classic papers in exercise and environmental physiology. The APS steering committee will accept nominations for these papers from all EEP members. When submitting a paper for consideration, please send the citation, abstract, and a brief (~75 word) description of why this paper should be considered a “classic” paper in the field of exercise and environmental physiology. Please submit your “classic paper” suggestion via email to Scott Powers spowers@hhp.ufl.edu

12. Upcoming Meetings of Interest to EEP membership