1. Congratulations to the 2010 EEP Section Award winners

**New Investigator Award:** Dr. Markus Amann - Researcher in Department of Internal Medicine, VA Medical Center, University of Utah. He received his Ph.D. from University of Utah (mentor: Carl Foster) and was a post-doctoral fellow in Respiratory Physiology and Pulmonary Medicine at University of Wisconsin (mentor: Jerry Dempsey). He has been a prolific scientist with numerous high impact publications regarding peripheral fatigue, determination of exercise performance, pulmonary physiology, hyperpnea of exercise, hypoxemia, and respiratory muscle work.

**Post-doctoral Awards:**

**EEP Gatorade Award for Beginning Investigator:** Robert Brothers, Institute for Exercise and Environmental Medicine - “Acute volume infusion preserves left ventricular end diastolic volume during combined heat and simulated hemorrhage”

**EEP Space Biomedical Research Institute's Gravitational Physiology Award for Beginning Investigator:** Matthew Ganio, Institute for Exercise and Environmental Medicine
Environmental Medicine - “Changes in central venous pressure during heat stress as a possible predictor of compromised blood pressure control during staged hemorrhage”


EEP Recognition Awards for Beginning Investigators:
Andreas Kavazis, University of Florida - “Endurance exercise protects cardiac tissue from doxorubicin-induced proteolysis and apoptosis”

Anna Leal, Pennsylvania State College of Medicine - “Quantification of the in vivo production of nitric oxide within the nucleus tractus solitarius during activation of the skeletal muscle mechanoreflex”

Pre-doctoral Awards:

EEP Gatorade Award for Young Investigator: Stephen Ives, University of Utah - “Alpha adrenergic sensitivity and temperature in human arteries: the role of nitric oxide”

EEP Space Biomedical Research Institute's Gravitational Physiology Award for Young Investigator: Michael Wiggs, Texas A&M University – “The effect of simulated 1/16th and 1/3rd gravity on gastrointestinal muscle mass and fractional protein synthesis in mice”

EEP Military Physiology Award for Young Investigator: Steven Welc, University of Florida - “Up regulation of skeletal muscle IL-6 mRNA in response to hyperthermia”

EEP Recognition Awards for Young Investigators:
John Harrell, University of Wisconsin - Madison - “Is rapid vasodilation in response to single contractions impaired in human obesity”

James Lang, The Pennsylvania State University - “Localized tyrosine or tetrahydrobiopterin supplementation augments vasoconstriction in aged human skin”

2. New EEP Steering Committee Members:

Scott Powers, will serve as the new EEP Section Chair for the next three years starting after EB10.
John Castellani will serve as the new EEP Environmental Physiology Councilor for the next three years stating after EB10.

Chris Minson will serve as the new EEP Thermal Physiology Councilor for the next three years stating after EB10

3. Thank You to Outgoing EEP Steering Committee Members

EEP appreciates the hard work and excellent service of the following outgoing steering committee member during the past three years.

Sam Cheuvront served the past three years as an EEP Thermal Physiology Councilor.

Robert Roach served the past three years as an EEP Environmental Physiology Councilor.

4. Adolph Lecture and Student Luncheon:

John M. Johnson, Ph.D. is the 2010 Adolph Distinguished Lecturer (Sunday, April 25 from 3:15-4:15, Ballroom C). He is Professor of Physiology, Deputy Chair of Physiology, University of Texas Health Sciences Center at San Antonio. He is a prolific scientist with many high-impact publications in environmental medicine, exercise and thermal physiology. The Adolph Lecture title is “Mechanisms of Control in the Human Cutaneous Circulation”

Dr. Johnson will participate in a free luncheon with graduate students and post-doctoral trainees at EB10. Limited reservations are still available (contact Mike Sawka): Time & Place: Noon, Sunday, April 25, 12:00 PM in Gold Key I-II, Anaheim Marriott.
5. EEP Honor Award:

Richard R. Gonzalez, Ph.D. is the 2010 EEP Honor Award winner. Dr. Gonzalez is Adjunct, Professor of Biology, New Mexico State University. He formerly served as Chief, Biophysics and Biomedical Modeling at the US Army Research Institute of Environmental Medicine (1984-2003) and Associate Professor at the John B. Pierce Foundation Laboratory, Yale University School of Medicine (1974-1983). The Honor Award recognizes members of the EEP Section, (60 years of age or older) who has made significant life-long research contributions to the scientific advancement of environmental, exercise, or thermal physiology while enhancing the objectives of the section.

6. EB10 EEP Activities:

EEP Program Committee Meeting, Friday, April 23, 4:00 pm, Orange County Ballroom Salon 3, Marriott

EEP Steering Committee Meeting, Sunday, April 25, 6:30 am, Orange County Ballroom Salon 2, Marriott

Graduate Student & Postdoctoral Student Lunch with Adolph Lecturer, Sunday, April 25, 12:00 pm, Gold Key I-II, Marriott (free lunch; limited space contact Dr. Sawka for reservation)

EEP Awards and Business Meeting, Monday, April 26, 6:00 pm Platinum Ballroom 7/8, Marriott

EEP Reception (Sponsored by the Gatorade Sports Science Institute), (FREE FOOD & Cash Bar), Monday, April 26, 7:00 pm, Marquis Ballroom Northwest, Marriott

7. EB10 Scientific Sessions of interest to EEP:

Craig Crandall EEP Program Representative provides a preview of some exciting scientific sessions of interest to EEP members at the 2010 American Physiological Society / Experimental Biology Meeting from April 24-28 in Anaheim, CA.
Sunday, April 25

- Mechanisms of Control in the Human Cutaneous Circulation - Edward F. Adolph Distinguished Lecture of the APS Environmental & Exercise Physiology Section - John Johnson (3:15-4:15; Ballroom C)
- Regulation of Epithelial Ion and Water Channels (8:00-10:00; Marriott Platinum 3&4)
- Inflammatory Mediators, Autoregulation and Cardio-renal Function – Heather Drummond and Chris Wilcox (8:00-10:00; CC 303A)
- Autonomic Adjustments to Stress - Chester Ray and Jason Carter (10:30-12:30; Marriott Platinum 7&8)
- Cerebral Challenges and Consequences of Exercise - Samuel N. Cheuvront (10:30-12:30; CC 304)
- Age, sex and Control of Breathing – Evelyn Schlenker (10:30-12:30; CC 303B)
- Interaction Between Respiratory and Limb Muscle Blood Flow During Exercise - Peter D. Wagner and Jerome Dempsey (3:15-5:15; CC 303B)
- Molecular Physiology of Iron Homeostasis and its Disorders – Tomas Ganz and Elizabeta Nemeth (3:15-5:15; Marriott Platinum 1&2)

Monday, April 26

- CNS Regulation of Body Temperature - Shaun Morrison (8:00-10:00; Marriott Platinum 1&2)
- Blood Pressure and Fluid Volume Homeostasis: Sodium Metabolism - Thomas Cunningham (8:00-10:00; CC 303D)
- Non-Erythropoietic Properties of Erythropoietin: Implications for Tissue Protection and Cancer - Abdulla Salahudeen and Stephanie Watowich (8:00-10:00; CC Ballroom A)
- Translational Research in Metabolic Syndrome and Cardiovascular Disease: Swine versus Mouse Models - Michael Sturek (8:00-10:00; Marriott Platinum 3&4)
- Hyperkalemic and Hypokalemic Periodic Paralysis of Skeletal Muscle – Jean-Marc Renaud (10:30-12:30; CC 303B)
- Neural Mechanisms of Sympathetic Activation in Cardiovascular Diseases - Hui-Lin Pan (10:30-12:30; CC 303D)
- Redox Control of Skeletal Muscle Adaptation to Exercise and Disuse - Scott Powers and Michael Reid (3:15-5:15; CC Ballroom B)
- Endocrine Adaptations to Exercise: How Important is Energy Balance? - Peter A. Farrell (3:15-5:15; CC 303B)
- Neuromodulatory Cytokines in Cardiovascular Functions - Mohan Raizada and Julian Paton (3:15-5:15; Marriott Platinum 1&2)
- Regulation of Neuronal Cell Volume: From Activation to Inhibition to Degeneration - Glenn Toney and Sean Stocker (3:15-5:15; CC Ballroom A)
- Systems Biology Approach to Monitor Intracellular Networks – Sylvie Breton and Bruce Molitoris (3:15-5:15; CC 303C)

Tuesday, April 27
- Cardiovascular Adjustments to High Altitude – Mikael Sander (8:00-10:00; Marriott Platinum 7&8)
- Sex Steroids in Cardiovascular-Renal Physiology and Pathophysiology - Barbara Alexander and Donna Korzick (8:00-10:00; CC 303D)
- Physiological Biomechanics - Matthew McHenry (8:00-10:00; CC Rm#303B)
- Inflammatory Responses and Hypoxia-Inducible Pathways - Sean Colgan and Holger K. Eltzchig (10:30-12:30; Marriott Platinum 1&2)
- Mitochondrial Oxidants and Antioxidants in Autonomic Regulation and Cardiovascular Function - Matthew C. Zimmerman (10:30-12:30; CC Rm#303D)
- PGC-1alpha in Health, Exercise and Disease - David Hood (10:30-12:30; CC 303B)
- Cardiovascular Consequences of the Metabolic Syndrome - David Stepp and Jefferson Frisbee (10:30-12:30; Marriott Platinum 7-8)
- Intrinsic and Extrinsic Regulation of Activity in Hypothalamus: Mechanisms and Consequences – Colin Brown and Mike Ludwig (10:30-12:30; CC Ballroom C)
- Habitual Exercise and Arterial Aging - Douglas R. Seals and Hirofumi Tanaka (3:15-5:15; Marriott Platinum 3&4)
- Comparative Metabolic Physiology - Karen Sweazea (3:15-5:15; 303D)

Wednesday, April 28
- New Insights into Pulmonary Circulation – John West and Frank Powell (8:00-10:00; CC Ballroom)
- Mechanisms of Peripheral Chemoreception - Daniel K. Mulkey (8:00-10:00; CC 303B)
- Regulation of Vascular Caliber and Contractility – Ed van Bavel and Michael Hill (8:00-10:00; CC Rm#207D)
- Mechanobiology and Oxidative Stress - Anthony Passerini and John Frango (8:00-10:00; CC Rm#2 07 A&B)
- The Brain, Behavior and Autonomic Function in Health and Disease - Angela J. Grippo and Julia A. Moffitt (8:00-10:00; CC 303 D)
- New Insights into the Relationship Between Sodium Metabolism and Blood Pressure Regulation - Michael Humphreys and Peter Bie (8:00-10:00; CC Ballroom C)
- To Exercise or Not to Exercise: Can We Replace Physical Activity with a Pill? - Eva R. Chin and Espen E. Spangenberg (10:30-12:30; CC 207 A&B)
- Hypoxia Effects on Cardio-respiratory Function and Integration – Kendall Morris (10:30-12:30; CC Rm# 303B)
- The Role of the Ubiquitin Proteasome System in Cardiac Disease, Diabetes, and Aging - Monte S. Willis and Xeujun Wang (10:30-12:30; CC 303A)
- Sarcopenia: Signal Transduction and Metabolism in Senescent Skeletal Muscle - Thomas H. Reynolds (8:00-10:00; CC 303C)


EEP member, Jeff Zachwieja of the Gatorade Sports Science Institute (GSSI) has announced their commitment to sponsor the annual EEP Reception. This generous donation by GSSI will pay for food at the reception on Monday, April 26 at 7 PM, which immediately follows the EEP business / awards meeting.

9. Nominations for EEP Honor Award and Adolph Lectureship

Environmental and Exercise Physiology Section Honor Award: Recognizes a previous or current primary member of the EEP Section who has made significant research contributions to the scientific advancement of environmental, exercise, or thermal physiology while enhancing the objectives of our section. Applications should include a nomination letter and current curriculum vitae and be submitted by 1 April, 2010. Applications and questions should be directed to Michael Sawka, EEP Section Chair, michael.sawka@us.army.mil.

Environmental and Exercise Physiology Section Edward F. Adolph Distinguished Lectureship: Is given to an eminent research scholar contributing to the areas of environmental, exercise and/or thermal physiology. Recipients are recognized at the EEP Awards Reception at the EB meeting. Candidates must provide copy of their curriculum vitae. Applications should include a nomination letter and current curriculum vitae and be submitted by 1 April 2010. Applications and questions should be directed to Michael Sawka, EEP Section Chair, michael.sawka@us.army.mil.

10. Submit Symposia and featured Topics for EB11

EEP has three symposia and three Featured Topic sessions for EB11. Symposia applications (http://www.the-aps.org/meetings/SymposiumForm.pdf) and Featured topic applications (http://www.theaps.org/meetings/FeaturedTopic.pdf) should be submitted to Craig Crandall, EEP Program Representative by March 15, 2010. A symposium consists of a chair and ~4 speakers filling no more than a 2 hour block. $4,000 is allotted per symposium to offset costs (primarily travel) for invited speakers and organizers. Additionally, up to 4 complimentary meeting registrations are given with each
selected symposium. A feature topic consists of a chair, one or two keynote speakers, and ~4 fifteen minute presentations that the chair selects from the pool of related abstracts. $2,000 is allotted per feature topic to offset costs (primary travel) and 2 complimentary registrations are given per feature topic.

11. Ken Baldwin – Elected to APS Council

Ken Baldwin, former EEP Chair, was elected to the APS Council. This is an outstanding honor and opportunity to continue to make outstanding contributions to APS.

12. News Updates from EEP Chair

Mike Sawka EEP Chair has the following news updates.

EEP is Healthy & Growing: EEP total membership has continually increased from 1,724 (March 08), 2,080 (September 09) to 2,141 (January 2010). EEP section currently has 918 primary and 1,224 secondary affiliations. We challenge EEP members to encourage colleagues to join APS and our section.

Partnership for Clean Competition (PCC) has funding for development of effective tests to detect performance enhancing substances. Additional research may explore non-test based methods to decrease doping and performance-enhancing drug use across all levels of athletic participation and competition, from the casual youth sports participant to the elite amateur and professional athlete. The PCC will review submitted pre-applications on a rolling basis. Applicants whose pre-applications align with PCC research objectives and show considerable potential will then be asked to submit full grant applications. Round 1: Pre-applications due March 1; Full applications due April 1 Round 2: Pre-applications due July 1; Full applications due August 1 Round 3: Pre-applications due November 1; Full applications due December 1. For information see website at www.cleancompetition.org <http://www.cleancompetition.org/>.

Climate Change Research Funding at NSF/BIO: The Divisions of Integrative Organismal Systems (IOS) and Molecular and Cellular Biosciences (MCB) in the Directorate for Biological Sciences at NSF encourage submission of proposals that address the biochemical, molecular, cellular, genetic and/or organismal underpinnings of adaptation and biological feedbacks to climate change. Interdisciplinary and systems level approaches to these problems are encouraged. The Foundation has a rapidly growing commitment to research directed towards understanding the interplay between living organisms and the
earth's climate and surface chemistry. In the Directorate for Biological Sciences, this was emphasized last year by the establishment of a special Life in Transition activity, as announced in an open letter to the research community, accessible at www.nsf.gov/pubs/2008/nsf08078/nsf08078.jsp?org=NSF.

Promote Physiology at a Local or Regional Science Fair This Spring: The APS sponsors awards at local and regional science fairs on a first come, first served basis. Any APS member who participates as a judge in a local or regional science fair at an elementary, middle, or high school is eligible to apply and receive APS support. Award package includes an APS pin, t-shirt, and Certificate of Achievement for the student with the best physiology project, and a Women Life Scientists book for the student teacher. To request an award package, visit http://www.the-aps.org/education/sciencefair/. For any questions, contact Scarletta Whitsett in the APS Education Office.

Loring Rowell featured in APS Living History Program: The APS is pleased to announce the recent posting of a video interview of Loring Rowell (visit http://www.the-aps.org/livinghistory/rowell.htm). EEP members are encouraged to consider nominating and interviewing senior physiologists at their institution to provide a living history of physiology. The videos provided to date focus on the physiologist's training, careers and their professional interactions. A total of 19 videos have been posted and there are more in the works. Visit the APS Living History at http://www.the-aps.org/livinghistory/index.htm.


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

2009 was a good year for JAPPL. The number of manuscript submissions remained high at 1231 for the year and our acceptance rate for submitted original research manuscripts remained at about 34%. I solicit your participation in providing commentary to Viewpoint and Point: Counterpoint manuscripts. The opportunity to submit commentary is open to the entire JAPPL readership. In the coming months, the following Point: Counterpoint manuscripts will be published in print; three can be located on JAPPL’s Articles in Press, the fourth will be online in mid-March 2010:

<table>
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<tr>
<th>Author/Title</th>
<th>Commentary due date</th>
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<tbody>
<tr>
<td>Claire Stewart, Jennifer M. Pell, Martin Flueck, and Geoffrey Goldspink</td>
<td>March 15, 2010</td>
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<tr>
<td><strong>Point: Counterpoint &quot;IGF is / is not the major physiological regulator of muscle mass.&quot;</strong> (link to article)</td>
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<tr>
<td><strong>Point: Counterpoint “Left ventricular volume during diastasis IS/IS NOT the physiologic in-vivo equilibrium</strong></td>
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<td>Authors</td>
<td>Point: Counterpoint</td>
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<tr>
<td>Susan Roberta Hopkins, Andrew William Sheel, and Donald C. McKenzie</td>
<td>&quot;Pulmonary edema does/does not occur in human athletes performing heavy sea-level exercise.&quot;</td>
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<tr>
<td>L. Gabriel Navar, Murray Esler, Elisabeth Lambert and Markus Schlaich</td>
<td>“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”</td>
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Commentaries must contain less than 250 words and no more than 6 references. Complete instructions for submitting commentaries can be found online at: [http://www.the-aps.org/publications/specialcalls](http://www.the-aps.org/publications/specialcalls). We also need new ideas for Viewpoint and Point: Counterpoint topics. Currently we have these types of articles scheduled only through the end of 2010. Send your ideas via email to cltober@wisc.edu. Complete instructions for writing a Viewpoint or Point: Counterpoint manuscript can be found online at: [http://www.the-aps.org/publications/VP_PCP](http://www.the-aps.org/publications/VP_PCP).

Finally, we need the EEP readership to consider organizing consensus conferences on controversial issues in our field. One such issue was raised recently in a Viewpoint article entitled “Gold standards for scientists who are conducting animal-based exercise studies” by Booth, Laye & Spangenburg published in the January 2010 issue of JAPPL ([link to Booth article](http://www.the-aps.org/publications/specialcalls)). Please consider approaching your section representatives to arrange such an APS-sponsored conference.

The JAPPL continues to align closely with the EEP leadership and its members. We look forward to continuing and strengthening this relationship. Send us your ideas and your manuscripts.

### 14. Know Your Steering Committee

The following individuals 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 - Mike Sawka (508) 233-5665
- Chair Elect – Scott Powers (352) 392-957
- Joint Program Committee Representative – Craig Crandall (214) 345-4623
- Exercise Physiology Councilor – Peter A. Farrell (252 ) 328-4635
Exercise Physiology Councilor – George Brooks (510) 642-2861
Environmental Physiology Councilor - Susan Ann Bloomfield (409) 862-1181
Environmental Physiology Councilor - Robert C Roach (303) 724-1670
Thermal Physiology Councilor - Samuel N. Cheuvront (508) 233-5607
Thermal Physiology Councilor - Nisha Charkoudian (507) 255-8475
Committee-on-Committees Representative - Michael C. Hogan (619) 534-2773
Trainee Advisory Representative – Grant Simmons (573) 882-9420
International Committee Representative – Hiroshi Nose (81) 263-372681
Liaison with Industry – Karen Mittleman (908) 231-4015