Environmental & Exercise Section Newsletter
March 2012

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1. Edward Adolph Distinguished Lecture: Laurie J. Goodyear, Ph.D.
   Adolph Lecture: Exercise and Metabolism-Monday, April 23, 2:00PM

   Laurie J. Goodyear - Adolph Lecturer
   The 2012 Adolph Lecturer is Laurie J. Goodyear, Ph.D. Dr. Goodyear is an investigator at the Joslin Diabetes Center and is section head of the metabolism division. 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: Ronald Terjung, Ph.D.

   Ronald Terjung – Honor award winner 2012
   The 2012 EEP Honor Award winner is Ronald Terjung, Ph.D. Dr. Terjung is Professor and Associate Chair of the Department of Biomedical Sciences at the University of Missouri-Columbia. 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. **EEP Program of Lectures/ Symposia / Featured Sessions**

Lisa Leon – EEP Program Chair

The 2012 American Physiological Society / Experimental Biology Meeting will be held in San Diego, CA during April 21-25, 2012. EEP Program Committee Representative Lisa and the EEP steering committee have worked extremely hard to develop an outstanding EB 2012 program. A list of the EEP programming for EB 2012 follows.

**MONDAY APRIL 23**

2:00PM-**Edward Adolph Distinguished Lecture:** Laurie J. Goodyear, Ph.D.
   Exercise and Metabolism

7:00PM-EEP Business Meeting and Awards Ceremony
   Marriott Hall Salon 5, San Diego Marriott

8:30 PM EEP Social (hors D’oeuvres and cash bar)
   Santa Rosa, San Diego Marriott

**TUESDAY APRIL 24**

8:00-10:00-**FEATURED TOPIC**-Thermal Physiology: From Acute Responses to Protective Adaptation (Chair: Christopher T. Minson)
10:30-12:30-**FEATURED TOPIC**-The Lethality of Trauma: New Insights into the Physiology of Hemorrhage (Chair: Victor A. Convertino)
3:30-5:30-**SYMPOSIUM**-Nrf2 Modulation in Exercise, Aging and Chronic Disease (Chair: Benjamin F. Miller; Co-chair: George A. Brooks)

**WEDNESDAY APRIL 25**

8:00-10:00-**FEATURED TOPIC**-Anabolic Resistance to Exercise with Aging or Disease (Co-Chairs: James D. Fluckey and Sue Bodine)
10:30-12:30-**SYMPOSIUM**-Oxygen Transport and Fatigue in Humans: Unraveling the Mechanisms (Chair: Jose Antonio Lopez Calbert; Co-chair: Jerome Dempsey)
3:30-5:30-**SYMPOSIUM**-Regulation of muscle blood flow by ATP during exercise (Chair: Grant H. Simmons; Co-chair: Shawn B. Bender)
3:30-5:30-**SYMPOSIUM**-Regulation of muscle blood flow by ATP during exercise (Chair: Grant H. Simmons; Co-chair: Shawn B. Bender)
3:30-5:30-**SYMPOSIUM**-Reactive oxygen species, exercise, and sarcopenia. (Co-chairs: Anne McArdle and Susan Brooks)
4. Congratulations to the EEP 2012 AWARD WINNERS

Environmental and Exercise Physiology (EEP) New Investigator Award-Darren Casey, Mayo Clinic

Gatorade Beginning Investigator Award-Caroline Smith, Penn State University

Gatorade Pre-doctoral Investigator Award-Kelsey Fisher-Wellman, East Carolina University

Military Physiology Pre-doctoral Award-Neil Phillips, University of Florida

Beginning Investigator Military Physiology Award-James Pearson, UT Southwestern Medical Center

Environmental & Exercise Physiology (EEP) National Space Biomedical Research Institute’s Pre-doctoral Gravitational Physiology Award-Kirk English, University of Texas Medical Branch, Houston

Environmental & Exercise Physiology (EEP) National Space Biomedical Research Institute’s Gravitational Physiology Beginning Investigator Award-Christian Westby, Universities Space Research Association

Environmental & Exercise Physiology (EEP) Section Pre-doctoral Recognition Award-Robert Davis, University of Florida

Exercise Physiology (EEP) Section Recognition Award for Beginning Investigators-Lauro Vianna, University of Missouri

Environmental & Exercise Physiology (EEP) Rigel Pharmaceuticals Postdoctoral Investigator Award-Mitsuharu Okutsu, University of Virginia

Environmental & Exercise Physiology (EEP) Rigel Pharmaceuticals Pre-doctoral Investigator Award-Danielle McCullough, University of Florida

5. Welcome two newly elected EEP Councilors

EEP is pleased to announce the election of two new councilors to join the EEP steering committee in 2013:

Exercise Physiology Councilor (2013-2016)

James Carson, PhD
University of South Carolina
Environmental Physiology Councilor (2013-2016)

John Halliwill, PhD
University of Oregon

6. EEP / APS - News Update

Scott K. Powers – EEP Chair

EEP is Healthy with almost 1000 Regular section members

EEP total membership has remained constant during the past calendar year. Currently, the EEP section has 997 primary members and 1307 secondary affiliations. We challenge EEP members to encourage colleagues to join APS and the EEP section. Also, please encourage graduate students and post-doctoral trainees to join APS and EEP.

EEP adds two NEW “Nike” sponsored research awards for 2013

We are proud to announce that EEP has added two new research awards in 2013 to bring our grand total of research awards to 13. Note that EEP continues to provide more research award opportunities for trainees than any other APS section! The two new research awards are possible because of a generous donation from Nike, Inc. These two new awards will be named in honor of Dr. Loren Myhre who was a long-time member of the EEP section. The two new awards will be titled:

1) Nike, Inc. Environmental and exercise physiology pre-doctoral research award
2) Nike, Inc. Loren G. Myhre environmental and exercise physiology postdoctoral research award
Mark your calendar to attend the EEP business/awards meeting and social at EB 2012

The business meeting (short briefing about the “state of EEP”) will be followed by the presentation of EEP research awards and recognition of the 2012 EEP Honor award winner.

The EEP social with hors d’oeuvres and cash bar will follow the business meeting. The dates/times and locations of these events are as follows:

EEP Business Meeting and Awards Ceremony
Monday, April 23, 7:00 PM
Marriott Hall Salon 5, San Diego Marriott

EEP Social
Monday, April 23, 8:30 PM
Santa Rosa, San Diego Marriott

7. Welcome New EEP Members

Dimitrios Bourdas, Norickolchinosoki-Sekine, Eisuke Ochi, Ross Sherman, Takayuki Akimoto, Maile Ceridon, Albert Crenshaw, Louise, Deldicque, Edgar Diaz, Mary Garry, Erik Hanson, Christopher Banek, Richard Bruce, Evan Johnson, Joshua Lee, Cameron McCarthy, Nicole Moyen, Sara Olenich, Garrett Peltonen, Arron Prowett, Manku Rana, Sandra Rosado, Kara Beasley, Andrew Del Pozzi, Sonia Diaz, Thiago Heck, Rebecca Smith, Kari Kallokoski, Christina Dieli-Corwright, Jacob Haus, Margie Davenport, Alexandre Okano, James Smoliga, Scott Conger, Bumsoo Ahn, Jenna Apicella, Ryan Ashworth, Rachael Friedman, Alexis Jones, David Lassiter, Jill Maples, Cody Nichols, Danielle Shepherd, Christopher Banek, Richard Bruce, Evan Johnson, Joshua Lee, Cameron McCarthy, Nicole Moyen, Sara Olenich, Garrett Peltonen, Arron Prowett, Manku Rana, and Sandra Rosado.

8. 2012 EEP Steering Committee

The following EEP members 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 – Lisa Leon - Lisa.Leon@AMEDD.ARMY.MIL
Exercise Physiology Councilor – Bruce Gladden - gladdlb@auburn.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 – Nina Stachenfeld - nstach@uibpierce.org
Committee-on-Committees Representative – Kevin Kregel - Kevin-kregel@uiowa.edu
Trainee Advisory Representative - Grant Simmons - grant.simmons@nike.com
International Committee Representative – Anne McArdle - Mdcr02@liverpool.ac.uk
Liaison with Industry – Ira Smith - ismith@rigel.com
9. Mark your calendar to attend the Integrated Biology of Exercise Conference

The Integrative Biology of Exercise (IBE) VI conference will be held October 10-13, 2012 in Westminster, Colorado. The IBE conference is sponsored by the APS and has been held once every four years since its inception in 1992. Particular emphasis has been placed by the IBE VI Organizing Committee on identifying the unknowns and the key challenges facing the field to impart significant advances in preventing and treating diseases related to lack of physical activity. The program features exciting day-long tracks in Personalized Medicine, Exercise Adaptations, Cardiovascular Disease, and Lipid Metabolism, plenary lectures and poster sessions as well as ample opportunity for recreation. For more information, please visit the meeting website at:

http://www.the-aps.org/mm/Conferences/APS-Conferences/2012-Conferences/Integrative-Biology-of-Exercise.

10. Please attend the Physiologists in Industry Committee sponsored symposium

The APS Physiologists in Industry Committee (PIC) is sponsoring a Symposium at EB 2012 entitled "MircoRNAs in Human Disease and as Novel Therapeutics" (chaired by Rebecca Persinger, R.D., Ph.D. and John Liles, Ph.D.) on Sunday, April 22 at 8 – 10 am in the Convention Center, Room 27CC. microRNAs (miRNAs) are a class of short (~19-25 nucleotides), single-stranded RNAs that have been shown to regulate gene expression through irregular base pairing to the 3’-untranslated region of target mRNAs. Although miRNAs do not code for proteins, they play an important role in post translational gene expression regulating families of genes involved in developmental, cell death, metabolism, and disease. First described by Victor Ambros in c. elegans, miRNAs have been found in nearly every biological system examined with more than 800 described in humans. A number of companies have developed strategies targeting miRNAs as a novel class of therapeutics to treat cancer and diseases of the cardiovascular and renal systems. The proposed symposia speakers include: Deidre MacKenna, Ph.D. (Regulus Therapeutics) to provide an overview of miRNAs and their role in human disease, Eva van Rooij, Ph.D. (Miragen Therapeutics) to discuss miRNAs as a novel treatment for cardiovascular disease, Eric G. Marcusson, Ph.D. (Regulus Therapeutics) will review miRNA as a therapeutic target in hepatocellular carcinoma, and Zheng Dong, Ph.D. (Medical College of Georgia) will review the role of miRNAs in renal disease. Attendees will gain a broad appreciation for the role of miRNA in pathophysiology of disease along with an appreciation for how miRNAs may be novel therapeutic targets.

The PIC Novel Disease Model Award is now sponsored by Plato BioPharma, Inc., a world leader in in vivo model development and execution. The PIC Novel Disease Model Award will be granted to each a graduate student and a postdoctoral fellow who submit the best abstracts at EB 2012 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. 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 on Tuesday, April 24, 6:00 – 7:30 pm in the Convention Center, Ballroom 20ACC.
You're invited! Come meet, eat and socialize with your fellow Physiologists who are working in the corporate, industrial, academic, or government sector. The 12th Annual Physiologists in
Industry Committee Mixer at EB 2012 is on Sunday, April 22, 6:45 – 8:00 pm, Irvine Room, San Diego Marriott. Free Hors d’oeuvres will be available along with information on the roles of Physiologists in Industry. This is a great opportunity to network with industry and academic APS members alike – we hope to see you there!

The APS PIC meeting is scheduled for Sunday, April 22, 2:30 pm, Coronado Room, San Diego Marriott – this is the committee’s annual opportunity to have a face-to-face meeting to discuss committee business and new initiatives. Please feel free to contact your PIC section representative if there are issues to be brought to the attention of the PIC.

11. Thanks to EEP sponsors

EEP is fortunate to have several sponsors that support both our research awards and the EEP. Current financial supporters of EEP include:

**Gatorade and the Gatorade Sports Science Institute**

**National Space Biomedical Research Institute**

**Nike, Inc.**

**Rigel Pharmaceuticals**

**United States Army**