On behalf of the steering committee of the Hypoxia Interest Group, we are pleased to announce the introduction of the Sukhamay Lahiri and Neil Cherniack Lecture. This annual lecture will recognize the major scientific achievements by Professors Lahiri and Cherniack. This special lecture will be presented by an eminent scientist during the two-hour block of the Feature Topic organized by the Hypoxia Interest Group. Every year we will call for nominations for the Lahiri/Cherniack Lectureship, and from these nominations the Hypoxia Group Steering Committee will select the lecturer that best fits the contributions of Professors Lahiri and Cherniack.

Both, Sukhamay Lahiri and Neil Cherniack shaped modern hypoxia-related research. Professor Lahiri (1933–2009) significantly contributed to our understanding of high-altitude physiology and peripheral chemoreception. Among his many discoveries, Dr. Lahiri showed that oxygen and carbon dioxide are independently sensed by the carotid body. During his famous “Silver Hut Expedition” with Sir Edmund Hillary in 1960, Professor Lahiri conducted experiments in a temperature-controlled room, the “Silver Hut,” to explore the extreme capabilities of human acclimatization to very high altitude. His efforts stimulated subsequent research in the field of hypoxia. Professor Lahiri was Professor of Physiology at the University of Pennsylvania and authored more than 120 publications.

Professor Cherniack (1931–2009) significantly contributed to our understanding of the neuronal and chemical control of breathing and his work focused on the neuronal basis of dyspnea, acute and chronic respiratory failure, and recurrent obstructive and central sleep apneas. His studies involved computational modeling approaches aimed at explaining central apneas. Neil Cherniack’s work was also inspired by studying human physiology. For example, he examined for example the lungs of the Mercury 7 astronauts and rode the centrifuge at NASA Ames Research Center. Among his many professional affiliations, Dr. Cherniack served as the Dean and Vice President from 1990–1995; Vice Chairman of the Department of Medicine from 1986–1990 at Case Western Reserve University. He wrote 8 books and nearly 400 publications. Moreover he was the Editor-in-Chief of the Journal of Applied Physiology, and Editor of the seminal Handbook of Physiology Respiration volume published in 1986.
The EB2014 in San Diego, CA is rapidly approaching and we hope that you plan to attend. As in previous years, the Hypoxia Interest Group has scheduled two events: a Symposium and a Featured topic. But this is not all: everyday there will be sessions that are of direct relevance for the Hypoxia Interest Group. We encourage you to attend as many of these events as possible and we look forward to seeing you in San Diego.

**HYPOXIA INTEREST GROUP PROGRAMMING**

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**Featured Topic**

“Influence of Maturation on Cell- and Systems-level Hypoxic Behaviors”

Organizers: Irene C. Solomon and Christopher G. Wilson

“Compensatory responses to Acute or Chronic Hypoxia Exposure” Schrage

Organizers: Harold G. Klemcke and Yufeng Wang

**DR. GORDON MITCHELL TO GIVE COMROE LECTURE**

Julius H. Comroe, Jr. Distinguished Lectureship of the APS Respiration Section

Gordon Mitchell

Univ. of Wisconsin, Madison

Tuesday, April 29, 2014, 10:30 AM-11:30 PM

Proposals are needed for Symposia and Featured Topic sessions (our group programs one of each) for Experimental Biology 2015, which will be held in Boston, MA, from March 28–April 1, 2015.

Both Symposia and Feature Topics are oral sessions organized in two hour blocks. Symposia usually consists of 4 invited speakers each allotted 25 minutes for their talks.

The Feature Topic will begin with the Lahiri/Cherniack lecture and will be followed by four 15 minute presentations taken from submitted abstracts. Funding is allocated for both kinds of sessions, and the registration fee of each invited speaker’s registration is covered.

**The deadline for submission is Monday, April 4th, 2014**

Forms can be obtained at http://www.the-aps.org/meetings/eb.htm
**Sunday April 27, 2014**
10:30 AM – 12:30 PM: *Symposium*
“Adaptations in the Oxygen Transport System at Altitude: Is Polycythemia Helpful or Harmful?”
   Organizers: **Tatum Simonson and Peter D. Wagner**

10:30 AM – 12:30 PM: *Featured Topic*
“Hypoxia as a Unifying Mechanism for Kidney Disease”
   Organizers: **Fredrik Palm and Christopher S. Wilcox**

**Monday April 28, 2014**
8:00 AM – 10:00 AM: *Featured Topic*
“New Insights into the Chemical Control of Breathing and Blood Pressure”
   Organizers: **Thiago S. Moreira and Daniel K. Mulkey**

**Tuesday, April 29, 2014**
8:00 AM – 10:00 AM: *Featured Topic*
“AltitudeOmics 2012”
   Organizer: **Rob Roach**

10:30 AM – 11:30 AM: *Lecture*
Julius H. Comroe, Jr. Distinguished Lectureship of the APS Respiration Section
   Speaker: **Gordon Mitchell**

10:30 AM – 12:30 PM: *Symposium*
“Organismal Adaptation/Response to Hypoxic Environments”
   Organizers: **Cassondra Williams and Birgitte McDonald**

**Wednesday, April 30, 2014**
8:00 AM – 10:00 AM: *Featured Topic*
“Carotid Body Chemoreceptors: Beyond the O2 Frontier”
   Organizers: **Blair Johnson and Jacqueline Limberg**

10:30 AM – 12:30 PM: *Symposium*
“Adaptations of Mitochondrial Oxidative Phosphorylation to Changing O2 Microenvironments”
   Organizers: Thomas L. Clanton and L. Bruce Gladden

10:30 AM – 12:30 PM: *Symposium*
“Historical Perspective of Peripheral and Central Chemoreception of Hypoxia and Hypercapnia”
   Chair: **Jan Marino Ramirez**

2:30 PM – 4:30 PM: *Featured Topic*
“Ambient Hypoxia, Muscle Mass Control and Energy Metabolism”
   Organizer: **Michele Beaudry**