



# American Physiological Society Respiration Section Newsletter March 2008

Susan Gunst, Ph.D., Chair

Marilyn P. Merker, Ph.D., Secretary-Treasurer

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### 1. Message from the Chair Elect: Marilyn P. Merker, Ph.D.

I am very grateful to the Respiration Section membership for electing me as it new Section Chair. I would like to thank the outgoing Chair, Susan Gunst, Ph.D., for her work of the last several years, and for helping me to get ready to serve as Chair. I have previously served on the Respiration Section program committee, and for the last two years on the Steering Committee and as Secretary-Treasurer of the Section. I look forward to continuing my association with the Section and getting to know all of you.

Please plan on attending EB 2008 in San Diego, attending Respiration Section activities, and introducing and re-introducing yourself to myself, the steering committee members and other fellow Section members! I urge to you to attend Respiration Section sponsored Lectures, Sessions and the Banquet, and *very importantly, please take the time to encourage the up and coming students and fellows in respiration medicine and science by attending the Trainee Highlights Session.*

We are actively seeking members who would like to become more involved with the Section, so please approach the steering committee members you come across in San Diego or elsewhere, and let us know about you, your interests, and your availability for more active participation in planning and implementing our activities.

### 2. EB 2008 Respiration Section Lectures and Sessions

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

Date: Tuesday, April 8, 2008 — 8:45-9:45 AM

Location: San Diego Convention Center, Room 26

Speaker: **Stella Kourembanas**, M.D., Children's Hosp. Boston, Brigham & Women's Hosp., Beth Israel Deaconess Med. Ctr.

Title: Pulmonary vascular disease: new insights on mechanisms and emerging treatments.

**Symposium: Cell-Cell Communication in Lung Stress Responses**

Date: Monday, April 7, 2008 — 3:15-5:15 PM  
Location: San Diego Convention Center, Room 26  
Chaired: Jahar Bhattacharya, Columbia Univ.  
Michael Koval, Emory Univ.

**Symposium: Recent Advances in the Neurobiology of State-Dependent Control of Breathing**

Date: Sunday, April 6, 2008 — 3:15-5:15 PM  
Location: San Diego Convention Center, Room 28A  
Chaired: Leszek Kubin, Univ. of Pennsylvania  
Richard L. Horner, Univ. of Toronto

**Symposium: Plasticity in Airway Receptor Function: Sensors, Central Integration and Reflex Responses**

Date: Tuesday, April 8, 2008 — 10:30 AM-12:30 PM  
Location: San Diego Convention Center, Room 28A  
Chaired: Frank Powell, UCSD  
Lu-Yuan Lee, Univ. of Kentucky

**Symposium: Novel Optical Methods for Studying the Living Circulatory System and Lung**

Date: Sunday, April 6, 2008 — 3:15-5:15 PM  
Location: San Diego Convention Center, Room 25B  
Chaired: Claudette St Croix, Univ. of Pittsburgh

**Poster Discussion: Trainee Highlights in Respiration Physiology**

Date: Sunday, April 6, 2008 — 5:45-7:45 PM  
Location: San Diego Convention Center, Room 24  
Chaired: Susan Margulies, Univ. of Pennsylvania  
Judith Neubauer, UMDNJ-RW Johnson Med. Sch.

**Featured Topic: Role of TRP Channels in Respiratory Function and Disease**

Date: Tuesday, April 8, 2008 — 3:15-5:15 PM  
Location: San Diego Convention Center, Room 25C  
Chaired: Mary I. Townsley, Univ. of South Alabama  
Wolfgang M. Kuebler, Charite, Berlin.

**Featured Topic: Plasticity of Respiratory Motoneurons**

Date: Wednesday, April 9, 2008 — 10:30 AM-12:30 PM  
Location: San Diego Convention Center, Room 28A  
Chaired: Carlos B. Mantilla, Mayo Clin. Col. of Med.  
Albert Berger, Univ. of Washington

**Featured Topic: Cell Phenotype and Function in Response to Lung Injury and Disease**

Date: Monday, April 7, 2008 — 8:00-10:00 AM  
Location: San Diego Convention Center, Room 22  
Chaired: Michael Koval, Emory Univ. Sch. of Med.

**Featured Topic: Smoking Babies Don't Breathe**

Date: Monday, April 7, 2008 — 8:00-10:00 AM  
Location: San Diego Convention Center, Room 28A  
Chaired: Ronald M. Harper, UCLA  
Estelle B. Gauda, Johns Hopkins Hosp.

**3. EB 2008 Respiration Section Banquet**

The banquet will be held on Monday, April 7, 2008, 6:00 pm at  
HOLIDAY INN ON THE BAY,  
1355 NORTH HARBOR DRIVE  
SAN DIEGO

Hotel Front Desk: 1-619-2323861

Website: [www.holiday-inn.com/san-onthebay](http://www.holiday-inn.com/san-onthebay)

The venue is within walking distance of the convention center.

The evening will include a reception with cash bar and dinner with your choice of entrée including:

Roasted Pepper Chicken - stuffed with Asparagus, Feta & Roaster Peppers, topped with Roasted Pepper sauce;

Spice Seared Fillet of Salmon on a Bed of Roasted Vegetables & Saffron Onions with Balsamic Tarragon Cream Sauce;

Vegetarian Entree - Assorted Seasonal Vegetables on a Baked Puff Pastry with Roasted Pepper Sauce.

We are especially excited to announce that the after-dinner speaker will be **Dr William Milsom**, Professor and Head of the Zoology Department at the University of British Columbia (<http://www.zoology.ubc.ca/~milsom/Bill1.html>).

The title of his presentation will be *Insights from the "Wild Side" (of Respiratory Physiology)*. This is sure to be an entertaining and fascinating talk of general interest to our members and their guests!

We are also happy to announce that ticket prices are reduced from last year. The prices are \$55.00 for members/nonmembers and \$45.00 for students and fellows. There will be a cash bar. The ticket order form is online at: <http://www.theaps.org/sections/respire/banquet08.htm>

Payment can be made by check or credit card. DO IT NOW - we have a limited number of tickets available and, if available, the price goes up for on-site sales!

#### **4. 2008 Respiration Section Award Winners**

Congratulations to all Section Award Winners! They will be recognized at the Respiration Section Banquet.

#### **2008 Respiration Section New Investigator Award**

**David Kline, PhD**, Assistant Professor, University of Missouri-Columbia, Department of Veterinary Biomedical Sciences, Dalton Cardiovascular Research Center  
Dr. Kline's research focuses on neural control of cardiorespiratory function.

#### **2008 Respiration Section Research Recognition Awards:**

**Courtney Guenther**, B.A., University of Wisconsin-Madison, Department of Comparative Biosciences; sponsored by Gordon Mitchell, Ph.D.  
Abstract: "BDNF protein exhibits a circadian rhythm in the hypoglossal, but not phrenic, motor nucleus"

**Nikki L. Jernigan, Ph.D.**, University of New Mexico, Department of Cell Biology and Physiology, Vascular Physiology Research Group; sponsored by Thomas Resta, Ph.D.  
Abstract: Contribution of ASIC to Increased Pulmonary Vascular Smooth Muscle Resting [Ca<sup>2+</sup>] and Store-Operated Ca<sup>2+</sup> Entry Following Chronic Hypoxia

**Dan Ni**, M.A., University of Kentucky, Dept of Physiology; sponsored by Lu-Yuan Lee, Ph.D.  
Abstract: A lack of potentiating effect of increasing temperature on the responses to chemical activators in vagal sensory neurons isolated from TRPV1-null mice

**Elizabeth Townsend**, B.A., Mayo Clinic, Dept of Biomedical Engineering and Physiology; sponsored by Y.S. Prakesh, Ph.D.  
Abstract: Estrogens modulate intracellular Ca<sup>2+</sup> in human airway smooth muscle

#### **Giles F. Filley Award Memorial Awards for Excellence in Respiratory Physiology and Medicine**

**Anke Di, M.D., Ph.D.**, Assistant Professor, University of Illinois at Chicago, Department of Pharmacology  
Dr Di's research program focuses on the participation of CFTR in the regulation of antigen presentation

**Ellen Burnham, M.D.**, Assistant Professor, University of Colorado at Denver and Health Sciences Center; Department of Pulmonary Sciences and Critical Care Medicine  
Dr Burnham's research program focuses on the role of endothelial progenitor cells in repair of endothelium in acute respiratory distress syndrome.

## **5. Respiration Section Steering Committee Members:**

The following are your representatives to the Respiration Section and APS. Talk to them, contact them, let us know how we can help you and how you can contribute to the Section! Please introduce yourselves during the meetings and at the Banquet.

### **Chair and SAC Representative**

Susan J. Gunst, PhD, Dept of Cellular and Integrative Physiology, Indiana Univ School of Medicine, 635 Barnhill Dr., MS 313, Indianapolis, IN 46202-5120; Phone: 317 274-4108; Fax: 317 274-3318; Email: [sgunst@iupui.edu](mailto:sgunst@iupui.edu); Term ends: 2008

### **Secretary/Treasurer**

Marilyn P. Merker, PhD, Medical College Wisconsin-VAMC 151, Department of Anesthesiology and Pharmacology, 5000 W. National Ave., Milwaukee, WI 53295; Phone: 414-384-2000 x41394; Fax: 414-382-5374; Email: [mmerker@mcw.edu](mailto:mmerker@mcw.edu)

### **Joint Program Committee Representatives**

**Judith A. Neubauer, Ph.D.**; UMDNJ-R W Johnson Medical School, Department of Medicine and Pulmonary Division, PO Box 19, New Brunswick, NJ 08903; Phone: 732-235-8961; Fax: 732-235-7048; Email: [neubauer@umdnj.edu](mailto:neubauer@umdnj.edu); Term ends: 2008

**Susan S Margulies, Ph.D.**; University of Pennsylvania, Department of Bioengineering, 220 S 33rd Street, Philadelphia, PA 19104-6392; Phone: 215 898-0882; Fax: 215 573-2071; Email: [margulies@seas.upenn.edu](mailto:margulies@seas.upenn.edu); Term ends: 2009

### **Councillor**

**Kim Prisk, Ph.D., D.Sc.**; Professor, UCSD Departments of Medicine and Radiology 9500 Gilman Dr., 0931 La Jolla, CA 92093-0931 Email: [kprisk@ucsd.edu](mailto:kprisk@ucsd.edu)

### **Committee on Committees Representative**

**Larissa Akimi Shimoda, PhD**; Johns Hopkins University School of Medicine, JHAAC 4A.52, 5501 Hopkins Bayview Circle, Baltimore, MD 21224; Phone: 410-550-5355; Fax: 410-550-2612; Email: [shimodal@welch.jhu.edu](mailto:shimodal@welch.jhu.edu); Term ends: 2010

### **Liaison with Industry Committee Representative**

**Rebecca Lynn Persinger, PhD**; Medical Affairs, Sepracor Inc., PO Box 895, Maple Falls, WA 98266; Phone: 206-325-0933; Fax: 206-325-6596; [rebecca\\_persinger@yahoo.com](mailto:rebecca_persinger@yahoo.com); Term ends: 2011

### **Trainee Advisory Committee**

**Diego F. Alvarez, M.D., Ph.D.**; University of South Alabama, Center for Lung Biology, 1761 Augusta Drive West, Mobile, AL 36695; Phone: 251-460-7086; Fax: 251-460-7452; Email: [dfa302@jaguar1.usouthal.edu](mailto:dfa302@jaguar1.usouthal.edu); Term ends: 2009

**ex officio AJP: Lung Editor**

**Michael Matthay, MD**; Department of CVRI, University of Cal-San Francisco, 505 Parnassus Ave, Box 0130, San Francisco, CA 94143-0130; Phone: 415-353-1206; Fax: 415-353-1990; Email: [mmatt@itsa.ucsf.edu](mailto:mmatt@itsa.ucsf.edu)

**ex officio Journal of Applied Physiology Editor**

**Jerome A. Dempsey, Ph.D.**; University of Wisconsin, John Rankin Lab of Pulmonary Medicine - UW, 1300 University Avenue, #4245, Madison, WI 53706-1510; Phone: 608-263-1732; Fax: 608-262-8235; Email: [jdempsey@wisc.edu](mailto:jdempsey@wisc.edu)

*We welcome Rebecca Persinger, PhD, to the steering committee, and thank Judith Neubauer, PhD and Susan Gunst, PhD, whose terms will be ending as of EB 2008, for their service to the Respiration Section.*

**6. Request for Program Submissions for EB09 and Program Committee Roster**

From the desk of **Susan Margulies, PhD, Joint Program Committee Representative:**

I am writing to encourage you to consider submitting ideas for Respiration Section symposium and/or featured topics. It is our responsibility to ensure that we have the highest quality programming and this is your opportunity to organize a great program around your primary research interest. Respiration Section programs 4 Featured Topic (FT) sessions and 2 Symposia at our annual EB meeting. To view details of how to propose a FT or Symposium please click the following URL <http://www.the-aps.org/sections/neural/guide.htm>

For EB 2009, there will be a few changes in how FTs and symposium are programmed. The Symposium will be programmed as in the past and \$4000 USD will be provided from the APS to support its speakers. In addition, \$500 USD will be provided to support an international speaker (total APS support = \$4500 USD). Allocation of these funds will be at the discretion of the symposium organizer(s).

There are also changes in FT programming, specifically, there will only be one featured speaker per FT (instead of two). This will be instituted to provide a better opportunity to highlight trainee and young scientists in these sessions. Complimentary advanced registration will be provided for the invited speaker (and perhaps a second speaker) and \$2000 USD will be available to support related travel expenses of speakers, including young investigators and trainees presenting in the FT. The distribution of these funds will be made at the discretion of the chair person(s).

Downloadable forms are available at <http://www.the-aps.org/meetings/eb.htm>

On behalf of the Respiration Section Steering Committee, I encourage you to submit your ideas for programming our 2009 meeting. If you have any questions, please do not hesitate to contact me [margulies@seas.upenn.edu](mailto:margulies@seas.upenn.edu) or Judith Neubauer

(neubauer@umdnj.edu) before April 1, 2008. We look forward to receiving your programming ideas.

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**Susan S Margulies, Ph.D.;** University of Pennsylvania, Department of Bioengineering, 220 S 33rd Street, Philadelphia, PA 19104-6392; Phone: 215 898-0882; Fax: 215 573-2071; Email: [margulies@seas.upenn.edu](mailto:margulies@seas.upenn.edu); Term ends: 2009

#### **Section Program Committee Members**

**Dolly Mehta, Ph.D.;** University of Illinois at Chicago, Department of Pharmacology, 835 S. Wolcott Street, Chicago, IL 60612; Phone: 312-355-0236; Fax: 312-996-1225; Email: [dmehta@uic.edu](mailto:dmehta@uic.edu)

**Michael J. Sanderson, Ph.D.;** University of Massachusetts Medical School, Department of Physiology, 55 Lake Avenue North, Worcester, MA 01655-0002; Phone: 508-856-6024; Fax: 508-856-7570; Email: [michael.sanderson@umassmed.edu](mailto:michael.sanderson@umassmed.edu)

**Gordon S. Mitchell, Ph.D.;** University of Wisconsin School of Veterinary Medicine, Department of Comp. Biosciences, 2015 Linden Drive, Madison, WI 53706; Phone: 608-263-9826; Fax: 608-263-3926; Email: [mitchell@svm.vetmed.wisc.edu](mailto:mitchell@svm.vetmed.wisc.edu)

**Claudette Marie St Croix, Ph.D.;** University of Pittsburgh, Dept of Environmental and Occupational Health, 3343 Forbes Ave, Pittsburgh, PA 15260; Phone: 412 383-1331; FAX: 412-383-2123; Email: [cls13@pitt.edu](mailto:cls13@pitt.edu)

### **7. EB 2008 Respiration Section Committee Meetings**

#### **Section Program Committee**

Tuesday, April 8, 12:00 pm

Newport Beach, San Diego Marriott Hotel

A buffet lunch will be served beginning at 11:30 am in the APS Office located in the Warner Center.

#### **Steering Committee**

Monday, April 7, 7:00 am

Newport Beach, San Diego Marriott Hotel: A buffet breakfast will be served beginning at 6:30 am in the APS Office located in the Warner Center.

**8. Thank you for support and request for donations!**

***We are grateful to Sepracor, Inc. for generous financial support of the Respiration Section at EB 2008.***

*But we need the help of section members also!* If you know of other possible sponsors to contact, we can help provide advice in soliciting donations—call Marilyn Merker (see contact information above).

Also please consider making any personal donation that you can to the Respiration Section to support Section activities including the banquets and student/fellow travel awards. Donations (please select Respiration Section Fund) can be made online at [https://www.the-aps.org/cgi-in/ecom/donation/Donation\\_list.cgi](https://www.the-aps.org/cgi-in/ecom/donation/Donation_list.cgi). Your support is needed and would be much appreciated.

**We look forward to seeing you in San Diego!**