MESSAGE FROM THE CHAIR

Experimental Biology 2011 is rapidly approaching, along with other important events and deadlines! Please read this Newsletter for updates on the EB 2011 program, the NCAR Reception/Awards Presentation Mixer, upcoming deadlines and events, the NCAR Trainee Page, and a list of new NCAR members.

IMPORTANT DEADLINES:
- Submission of NCAR Featured Topics and Symposia proposals, March 25.
- Nominations for 2012 Carl Ludwig Distinguished Lectureship Award, April 1.
- Nominations for NCAR representatives on Joint Programming Committee and Physiologists-in-Industry Committee, April 1.
- Abstract submission and early registration, Joint ISA/N/AAS Meeting, April 30.
- Classic NCAR-related APS Journal Articles and Historic NCAR Timeline of Discovery, May 1.

EVENTS OF INTEREST:
- NCAR Reception/Awards Presentations at EB 2011, Monday, April 11, Grand Hyatt, 6-8 PM.
- Joint ISAN/AAS Meeting in Buzios, Brazil, September 12-16 with satellite meetings before and after.
- APS Conference on Autonomic Regulation of Cardiovascular Function in Health and Disease, Omaha, NE, Summer 2012.

Additional information on these topics can be found within the Newsletter, or you contact any of the NCAR Steering Committee members. Please submit proposals, nominations, and suggestions for classic articles – historic timeline! NCAR needs your participation. See you at EB 2011!

CARL LUDWIG DISTINGUISHED LECTURESHIP FOR 2011

Professor Allyn Mark, University of Iowa, will present the Ludwig lecture at EB 2011 entitled “The Neurobiologic Regulation of Blood Pressure and Activity in Obesity: Insights from Leptin”, scheduled at 8:00-9:00 AM on Monday, April 11. The Ludwig lecture will be immediately followed by a mini-symposium entitled “Central Neural Regulation of Blood Pressure and Metabolism”, at 9:00-10:00 AM. Speakers/presentations include: 1) Robin Davisson, Endoplasmic reticulum stress, oxidative stress, and hypertension: it’s all in your head; 2) Kamal Rahmouni, Neurological basis of a human obesity syndrome; and 3) Yong Xu, Sex matters: genetic isolation of CNS estrogen receptor alpha functions.
### EB 2011 – NCAR SPONSORED SESSIONS

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<th>Session Type</th>
<th>Title</th>
<th>Chair(s)</th>
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<tr>
<td>Sunday April 10</td>
<td>10:30 AM-12:30 PM</td>
<td>Symposium 1 of 2</td>
<td>Real Progress in Translational Cardiovascular Research to Treat Disease</td>
<td>Julian Paton, Benedito Machado</td>
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<tr>
<td>Sunday April 10</td>
<td>3:15-5:15 PM</td>
<td>Featured Topic 1 of 4</td>
<td>Neural &amp; Humoral Mechanisms in Human Hypertension</td>
<td>Richard Auchus, Wanpen Vongpatanasin</td>
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<tr>
<td>Monday April 11</td>
<td>8:00-9:00 AM</td>
<td>Distinguished Lecture</td>
<td>Ludwig Distinguished Lecture: The Neurobiologic Regulation of Blood Pressure and Activity in Obesity</td>
<td>Allyn L. Mark</td>
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<tr>
<td>Monday April 11</td>
<td>9:00-10:00 AM</td>
<td>Minisymposium</td>
<td>Central Neural Regulation of Blood Pressure and Metabolism</td>
<td>Allyn L. Mark</td>
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<tr>
<td>Monday April 11</td>
<td>10:30 AM-12:30 PM</td>
<td>Featured Topic 2 of 4</td>
<td>NCAR Trainee Featured Topic</td>
<td>Mark Chapleau, Amy Arnold</td>
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<tr>
<td>Monday April 11</td>
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<td>Symposium 2 of 2</td>
<td>Mechanisms of Peripheral and Autonomic Neuropathies</td>
<td>Irina Obrosova, Mark Yorek</td>
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<tr>
<td>Tuesday April 12</td>
<td>8:00-10:00 AM</td>
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<td>Renal Nerves: Their Role in Cardiovascular Disease</td>
<td>Irving Zucker</td>
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<tr>
<td>Tuesday April 12</td>
<td>10:30 AM-12:30 PM</td>
<td>Featured Topic 4 of 4</td>
<td>Control of Sympathetic Nerve Activity: Coupling to Respiration</td>
<td>Erica Wehrwein, Glenn Toney</td>
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### EB 2011 – OTHER SESSIONS OF INTEREST

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<th>Chair(s)</th>
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<tr>
<td>Saturday April 9</td>
<td>3:15 – 5:15 PM</td>
<td>Workshop (EB sponsored)</td>
<td>Rodent Instrumentation Workshop</td>
<td>Mark Knuepfer</td>
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<tr>
<td>Saturday April 9</td>
<td>3:30 – 5:00 PM</td>
<td>Symposium (EB sponsored)</td>
<td>The Eighth Edition of the <em>Guide for the Care and Use of Laboratory Animals</em></td>
<td>Lida Anestidou</td>
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<tr>
<td>Saturday April 9</td>
<td>5:45 PM</td>
<td>Distinguished Lecture (APS)</td>
<td>The Walter B. Cannon Memorial Lecture</td>
<td>Roberto Bolli</td>
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<tr>
<td>Sunday April 10</td>
<td>8:00-10:00 AM</td>
<td>Symposium (XSEC)</td>
<td>Therapeutic Potential of the ACE2/Ang(1-7) Axis in Disease</td>
<td>Eric Lazartigues, Kathryn Sandberg</td>
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<tr>
<td>Sunday April 10</td>
<td>8:00-10:00 AM</td>
<td>Symposium (XSEC)</td>
<td>Salt, Angiotensin II, Superoxide and Endothelial Function</td>
<td>Julian Lombard, Andrew Greene</td>
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<tr>
<td>Sunday April 10</td>
<td>10:30 AM-12:30 PM</td>
<td>Featured Topic (CV)</td>
<td>Inflammation, Oxidative Stress and Vascular Function</td>
<td>Lusha Xiang, Jay Naik</td>
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<tr>
<td>Sunday April 10</td>
<td>3:15-4:15 PM</td>
<td>Distinguished Lecture (WEH)</td>
<td>Starling Distinguished Lecture</td>
<td>Curt Sigmund</td>
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<tr>
<td>Sunday</td>
<td>April 10</td>
<td>3:15-5:15 PM</td>
<td>Symposium (CNS)</td>
<td>New Frontiers in Thermoregulation</td>
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<td>Monday</td>
<td>April 11</td>
<td>10:30 AM-12:30 PM</td>
<td>Symposium (CNS)</td>
<td>CNS Circuits Controlling Body Weight: Dissecting the Neuronal Regulation of Food Intake and Energy Metabolism</td>
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<td>Monday</td>
<td>April 11</td>
<td>2:00-3:00 PM</td>
<td>Distinguished Lecture (CNS)</td>
<td>Erlanger Distinguished Lecture: Organization of Neural Systems Controlling Eating and Drinking</td>
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<tr>
<td>Monday</td>
<td>April 11</td>
<td>2:00-3:00 PM</td>
<td>Distinguished Lecture (CV)</td>
<td>Berne Distinguished Lecture</td>
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<tr>
<td>Tuesday</td>
<td>April 12</td>
<td>8:00-10:00 AM</td>
<td>Featured Topic (RESP)</td>
<td>Multiscale Neuronal Control of Respiratory Function: Bridging Gene Networks to Neural Networks</td>
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<tr>
<td>Tuesday</td>
<td>April 12</td>
<td>2:00-3:00 PM</td>
<td>Distinguished Lecture (EEP)</td>
<td>Adolph Distinguished Lecture: Giant sucking sound: Can physiologists fill the intellectual void left by the reductionists?</td>
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<td>Tuesday</td>
<td>April 12</td>
<td>3:15-5:15 PM</td>
<td>Symposium (EEP)</td>
<td>Sympathetic and Endothelial Control of Muscle Blood Flow in Aging and Hypertension</td>
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<tr>
<td>Tuesday</td>
<td>April 12</td>
<td>3:15-5:15 PM</td>
<td>Symposium (RESP)</td>
<td>Peripheral: Central Chemoreceptor Interactions</td>
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<tr>
<td>Wednesday</td>
<td>April 13</td>
<td>8:00-10:00 AM</td>
<td>Symposium (XSEC)</td>
<td>Understanding Blood Pressure Regulation Through Neural, Vascular, and Renal Specific Knockout/down Approaches</td>
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<tr>
<td>Wednesday</td>
<td>April 13</td>
<td>8:00-10:00 AM</td>
<td>Symposium (ALAPS)</td>
<td>Central and Peripheral Aspects of Intermittent and Sustained Hypoxia</td>
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<tr>
<td>Wednesday</td>
<td>April 13</td>
<td>10:30 AM-12:30 PM</td>
<td>Symposium (RESP)</td>
<td>Neural-glial Interactions in Central Respiratory Control and Spinal Plasticity</td>
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**NCAR RECEPTION/AWARDS PRESENTATIONS AT EB 2011**

Please join us to congratulate the recipients of the NCAR sponsored awards at the NCAR Section Mixer on Monday April 11, 6:00-8:00 PM at the Grand Hyatt McPherson/Franklin Square Room. Winners will be announced at the reception. Hors d’oeuvres will be available along with a cash bar. Everyone always has a good time, and it's an excellent opportunity to meet your fellow NCAR section members.
IMPORTANT DEADLINES

APPLICATIONS FOR NCAR STEERING COMMITTEE OPENINGS
Our “Physiologists-in-Industry Committee” and “Joint Programming Committee” representatives will soon be rotating off the NCAR steering committee. NCAR members interested in being considered for these positions are invited to submit a letter describing their qualifications/relevant experience and Curriculum Vitae to Mark Chapleau (mark-chapleau@uiowa.edu). Information about these positions/committees can be found on the APS website (www.the-aps.org/committees/index.htm) or by contacting the current representatives Alison Strack (alison_strack@merck.com) and Jason Carter (jcarter@mtu.edu), respectively. The steering committee plans to complete the evaluation of applicants and appoint the new steering committee members before the EB meeting in April. The terms of service will begin after the EB meeting. If interested, please submit your application letter and CV by Monday, March 14, 2011.

NCAR FEATURED TOPICS and SYMPOSIA FOR EB 2012
The deadline for submitting NCAR Featured Topic and Symposium proposals for EB 2012 is March 25, 2011. We highly encourage our members to submit proposals. NCAR is responsible for programming 2 symposiums and 3 featured topics. A brief description of each follows:

Symposia: Typically include 4-5 speakers; 20-30 min presentations with a 2 hr maximum time allotment. Organizers should consider multidisciplinary approaches (including participation of other APS sections) and the contribution by experimentation at multiple levels of investigation. $4,000 of support is allocated for each symposium.

Featured Topics: Typically include 1-2 invited speakers (20-30 min presentations), followed by 4 selected abstracts submitted to EB (10-15 min presentations); 2 hr maximum time allotment. A special call for abstracts will occur in November 2011 to encourage abstract submissions to the selected featured topic categories. $2,000 of support is allocated for each featured topic.

To ensure NCAR provides you with excellent programming, we need your input. Please consider submitting a proposal, or contact your NCAR program representative (Jason Carter; jcarter@mtu.edu) with ideas and/or suggestions for individuals we can contact to solicit a proposal. Proposal submissions form can be found at the following web link: www.the-aps.org/meetings/eb.htm.

NOMINATIONS FOR CARL LUDWIG AWARD 2012
The qualifications for the Ludwig Lectureship Award are described and past winners are listed on the APS website (www.the-aps.org/awards/society.htm#distinguished). Please submit a brief letter of nomination and the Curriculum Vitae of the nominee to Mark Chapleau (mark-chapleau@uiowa.edu) by Friday, April 1, 2011.

CLASSIC ARTICLES RELATED TO NCAR
The APS plans to collate articles from all sections for distribution at EB 2012 in San Diego in honor of the 125th Anniversary of APS. Be selective in choosing articles to nominate. We want to identify the classic papers of highest impact/importance published between the first issues of AJP and present day. Larry Schramm has kindly volunteered to help the section organize this material. Please send the full citation of articles (from any APS journal, AJP, JAP, JN, etc.) to Larry Schramm (lschramm@jhu.edu) or to Harold Schultz (hschultz@unmc.edu). We need to complete the project by this summer, so early submission of nominations would be appreciated, preferably before the EB 2011 meeting in Washington DC if possible, and the deadline is May 1, 2011.

NCAR TIMELINE OF DISCOVERY
The timelines of discovery produced by the APS sections also will be tied to the 125th Anniversary APS meeting in San Diego in 2012. The timeline for the Endocrinology & Metabolism section can be viewed on the APS website. Please send your ideas for the NCAR timeline of discovery to Larry Schramm (lschramm@jhu.edu) or to Harold Schultz (hschultz@unmc.edu). The deadline is May 1, 2011.
FUTURE EVENTS

Translating Autonomic Neuroscience, September 12-16, 2011, Buzios, Brazil.
This year a joint meeting of the International Society for Autonomic Neuroscience and the American Autonomic Society will be held at Buzios, Brazil. Registration and abstract submission are now open. Please find the program for the meeting and links for registration and abstract submission at: www.eventus.com.br/ISAN2011. The deadline for early registration and abstract submission is April 30, 2011. Additional information on satellite symposia, accommodations, venue and tourism can be found at the web site.

High Blood Pressure Research 2011 Scientific Sessions, Sept. 20-24, 2011, Orlando, Florida. The American Heart Association’s High Blood Pressure Research Conference is a two-and-one-half day scientific program with more than 450 presentations focusing on recent advances in hypertension research. Considered one of the most important medical meetings on this subject in the world, the conference includes oral and poster presentations selected from abstracts submitted by clinical and basic researchers from 20 countries. These are all followed by discussions led by leading authorities. The conference will provide an educational program for physicians and research investigators that will enhance their knowledge advance their skills and apprise them of the latest developments in research pertaining to hypertension and its relationship to stroke, cardiac disease, kidney function/renal diseases, obesity and genetics. The deadline for abstract submission is May 16, 2011. Additional information on program and registration can be found at the web site: www.americanheart.org/presenter.jhtml?identifier=3062454

Autonomic Regulation of Cardiovascular Function in Health and Disease, Summer 2012, Omaha, Nebraska. This APS Conference will cover a variety of timely topics and issues that range from central control of sympathetic outflow to autonomic failure in humans. Contributors will include notable investigators in the field, fellows and students. Both plenary and invited lectures and abstract based talks and posters will be part of the program. In addition, an APS writing workshop will be particularly useful for students and post-doctoral fellows. A novel feature of this Conference will be the “Gladiator Session” where short presentations will be made on new ideas and directions. No data will be required, just out of the box ideas! The Conference will be held in Omaha, Nebraska sometime between June and September. More information will be forthcoming. Questions should be directed to the organizers Irving Zucker (zucker@unmc.edu), Kaushik Patel (kpatel@unmc.edu), or Harold Schultz (hschultz@unmc.edu).

SCIENCE POLICY NEWS

How to Be an Advocate: A Workshop for Scientists
Saturday, April 9, 2011, 1-3 PM, Walter E. Washington Convention Center Room 147A
Join the members of the APS Science Policy Committee to learn how to be an effective advocate for science. This workshop will address what scientists can do to encourage federal support for research and what you need to understand about the budget process. You will also learn how to schedule a meeting with your Member of Congress while you are in Washington. Experienced science advocates will be available to guide small group discussions about advocacy and answer questions about meeting with Members of Congress. For more information on planning ahead to visit Capitol Hill during EB, see the APS Science Policy website: http://www.the-aps.org/pa/advocate/AdvocateforScience.htm

PHYSIOLOGISTS IN INDUSTRY MESSAGE

Stem Cells in Physiology and Drug Discovery
Sunday, April 10, 2011, 8:00-10:00 AM, Walter E. Washington Convention Center, Rm. 145A
The APS Physiologists in Industry Committee (PIC) encourages you to attend their sponsored symposium at EB 2011 (chaired by Magdalena Alonso-Galicia, Ph.D. and Cheryl Watson, Ph.D.). Recent breakthroughs allow the generation of induced pluripotent stem cells (iPS cells) from somatic cells, which
maintain all the potential of embryonic stem cells without using embryos, eliminating ethical concerns. These findings have generated excitement and interest in both the biomedical research community and pharmaceutical industry. The FDA recently approved the first stem-cell trial in the US for severe spinal cord injury. Beyond therapeutics, the promise of using differentiated human stem as disease relevant and toxicology models is maturing. Cell lines derived from iPS cells of patients can accelerate the development of new targets for different diseases and hasten exploration of innovative treatments in regenerative medicine. This symposium will review the current use of pluripotent stem cells to enable drug discovery as well as provide examples of therapeutic approaches.

**The Cardiac Sarcomere as a Therapeutic Target**

**Wednesday, April 13, 2011, 3:15-5:15 PM, Walter E. Washington Convention Center, Rm. 145A**

The PIC and APS Translational Physiology Group invite you to attend this co-sponsored symposium (chaired by John Liles, Ph.D. and Kelly R. Pitts, Ph.D.). The cardiac sarcomere is the core structure responsible for cardiac muscle contraction and dynamics. A better understanding of the interactions at the crossbridge level has led to the discovery of novel pathways and to the development of new clinical targets. In this symposium, experts in the field will a) review the sarcomere components associated with regulating basic cardiac function; b) discuss the effect of calcium signaling on sarcomere proteins; c) address the clinical consequences of certain genetic mutations of the sarcomere; and d) review the successes and challenges that physicians experience with sarcomeric modulators in the clinic. Attendees will gain an appreciation for the translational nature of studying and targeting the cardiac sarcomere.

The PIC Novel Disease Model Awards, sponsored by the PIC and the APS, will be presented at the APS Business Meeting on Tuesday, April 12, 5:45 - 7:00 pm in the Convention Center, Ballroom B. The awards will be granted to a graduate student and a postdoctoral fellow who submit the best abstracts at EB 2011 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.

You're invited! The 11th Annual Physiologists in Industry Committee Mixer at EB 2011 is on Sunday, April 10, 7:00-8:15 pm at the Grand Hyatt Washington, Penn Quarter A Room. Free Hors d'oeuvres will be available along with a cash bar. Information will be available on the roles of Physiologists in Industry. Dine and socialize with fellow Physiologists working in the corporate, industrial, or academic sector. 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 Monday, April 11, 2:30-4:00 PM in the Washington Convention Center, Rm. 302. 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.

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**SUBSCRIBE TO THE NCAR LISTSERV**

Please subscribe to the NCAR listserv in order to keep abreast of important messages and all NCAR Newsletters. To join, go to the Members Only page at [www.the-aps.org](http://www.the-aps.org). Not all editions of NCAR Newsletters are mailed by hard copy. Access to all NCAR newsletters can be obtained by visiting [http://www.the-aps.org/sections/neural/index.htm](http://www.the-aps.org/sections/neural/index.htm)

**MAKE YOUR TAX-DEDUCTABLE DONATION TO NCAR TODAY!**

Please help us keep our awards alive by either contributing directly to the section, or assist in recruiting potential new sponsors. An important mission of our section is to recognize significant contributions of new investigators in the field, notably through selection and presentation of section awards. Contributions to the section are tax deductible and used exclusively for the awards.

MESSAGE FROM THE TRAINEE REPRESENTATIVE
Amy C. Arnold, Vanderbilt University, amy.c.arnold@vanderbilt.edu

Greetings Trainees…I hope you are looking forward to the upcoming Experimental Biology 2011 in Washington DC!!

Don’t forget to take advantage of some of the great trainee sessions and career development symposia offered by the APS at this meeting. I’ve highlighted some of these sessions below, but you can find a complete list at: http://experimentalbiology.org/content/CareerDevelopmentSessions.aspx.

**APS Trainee Sessions and Career Development Symposia at EB:**
- Refresher Course in Cell Physiology: Intracellular Signaling
  www.the-aps.org/education/refresher/CellPhysiology.htm
  Saturday, April 9th [8:00 AM – 12:00 PM Convention Center, Room 146C]
- Communicating Science as a New Career Path: Physiology beyond the Lab
  Saturday, April 9th [3:00 PM-5:00 PM, Convention Center, Room 154A]
- Undergraduate Poster Session
  Sunday, April 9th [4:00 – 5:30 PM, Convention Center, Poster Area]
- New Opportunities in Non-traditional Academic Positions
  www.the-aps.org/careers/careers1/EBsymposia.htm
  Monday, April 11th [3:15 - 5:15 PM, Convention Center, Room 146B]
- Work/Life Balance: Every Choice Matters (APS Mentoring Workshop)
  www.the-aps.org/careers/careers1/mentor/wrkshp.htm
  Wednesday, April 13th [8:00 - 10:00 AM, Convention Center, Room 146C]
- The Individual Development Plan – Plotting a Career Trajectory
  www.the-aps.org/trainees/EBsymposia.htm
  Wednesday, April 13th [10:30 AM - 12:30 PM, Convention Center, Room 147B]

**Upcoming Abstract Deadlines:**
- High Blood Pressure Research 2011 Scientific Sessions [Orlando, FL]: May 16th
- ISAN/AAS Joint Conference [Buzios, Brazil]: April 30th
- Physiology of Cardiovascular Disease: Gender Disparities [Jackson, MS]: June 20th

**Additional Trainee Resources:**
- Visit the **Trainee Website** (www.the-aps.org/trainees) for a wealth of information
- Subscribe to the **Trainee Listserv** by sending an e-mail with “Trainee Listserv” in the subject line to Education@The-APS.org
- Join the “APS Trainees” and “American Physiological Society” groups on **Facebook**

Please don’t hesitate to contact me at amy.c.arnold@vanderbilt.edu if you have any questions, comments, or concerns regarding you trainee membership in the APS.

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You are invited to the NCAR Reception/Awards Presentations and Social!
**Monday, April 11, 6:00–8:00pm McPherson Square/Franklin Square Rm, Grand Hyatt**
**WELCOME TO NCAR: NEW MEMBERS FROM SEPT 2010 - FEB 2011**

**Student Members, Primary Affiliation**

Robert Patrick Davis, Michigan State University, East Lansing, MI; Mariana R Lauar, UNESP, Araraquara, Brazil; Jennifer C. Guercio, Montclair State University, Weehawken, NJ; Jason M Moreau, University of Western Ontario, London, ON; Tao Xing, Macquarie Univ, Sydney, Australia; Michelle Eagle, Tulane University, New Orleans, LA; Robert Arnold Larson, Michigan Technological University, Hancock, MI; Amit Modgil, North Dakota State University, Fargo, ND; Maddalena Alessandra Wu, University of Milan, Milan, Italy; Lynnette Montgomery, Ohio St Univ, Columbus, OH; Caroline Palavicino-Maggio, New Jersey Med Sch- GSBS -UMDNJ, Leonia, NJ; J Thales Reboucas, Univ Sao Paulo, Sao Paulo, Brazil; Jessica Maria Murray, St Louis Univ, Saint Louis, MO; Juliane Michelle Rose, University of Georgia, Alpharetta, GA; Allison M.H. Savino, Johns Hopkins Univ, Long Valley, NJ

**Student Members, Secondary Affiliation**

Zachary Ian Grunewald, Florida State University, Tallahassee, FL; Naz Moaddab, Georgetown University, Washington, DC; Vanessa V Selwyn, New Mexico St Univ, Las Cruces, NM; Alexandra Soto-Pina, University of Texas Health Science Center At San Antonio, San Antonio, TX; David Justin Moore, Pennsylvania State Univ, State College, PA; Poonam Jalswal, Univ Florida, Gainesville, FL; Zheng Su, Grinnell College, Grinnell, IA; Lawrence Louis, Wolfgang, Pennsylvania State Univ, Hershey, PA; Juliana Bohnen Guimaraes, Federal University of Minas Gerais, Belo Horizonte, Brazil

**Regular Members, Primary Affiliation**

Richard Andersen, California Inst of Technology, Pasadena, CA; Tanja Babic, Penn State Hershey Univ., Hershey, PA; Daniela A. M. Eichenberger, University of São Paulo, Ribeirão Preto, Brazil; Andre Henrique Freiria-Oliveira, Paulista State University (UNESP), Araraquara, Brazil; Stan C. Kunigelis, Lincoln Memorial Univ, Harrogate, TN; Hui Yin Tu, Univ Nebraska Medical Center, Omaha, NE; Hua Peng, Tulane University, New Orleans, LA; Alessandro Silvani, Univ Di Bologna, Bologna, Italy; Srinivas Srramula, Louisana State Univ Hlth Scis Ctr, New Orleans, LA; Daniel Machado Luiz Vianna, New South Wales Sch Med Scis, Sydney, Australia; Daniel B. Zoccal, Federal Univ of Santa Catarina - Ctr of Biological Sci, Florianopolis, Brazil; Stephen Bruce Abbott, University of Virginia, Charlottesville, VA; Noorzahan Begum, Bangabandhu Sheikh Mujib Med Univ, Murmur, Bangladesh; Amit Kumar Mitra, Univ Nebraska Med Center, Omaha, NE; Vernon Alexander Ruffin, Howard University, Washington, DC; Aline M. Hilzendeger, University of Iowa, Iowa City, IA; Philip J. Millar, Univ Health Network, Toronto, ON, Canada; Gregor Belusic, Vecna pot 111, Ljubljana, Slovenia; Prajni Sadananda, Univ Bristol, Bristol, United Kingdom; Hirotsugu Tsuchimochi, National Cerebral & Cardiovascular Research Ctr, Suitsa, Osaka, Japan; Bo Xu, Univ of Nebraska Med Center, Omaha, NE

**Regular Members, Secondary Affiliation**

Jean-Luc Morel, CNRS, CNIC, Paris, France; Joseph FX Desouza, York University, Toronto, ON, Canada; Raymond Reynolds, Univ of Birmingham, Birmingham, United Kingdom; Maurice A Smith, Harvard Univ, Cambridge, MA; Elizabeth Barbara Torres, Rutgers University, Piscataway, NJ; Anthony D Kay, The Univ of Northampton, Northampton, United Kingdom; Kyuichi Niizeki, Yamagata Univ, Yonezawa, Japan; Brett Sean Kirby, Colorado State Univ, Fort Collins, CO; Simonetta Baldi, M.D., Scientific Institute Montescano Rehabilitative Pneumology, Montescano (Pavia), Italy; Franz Goller, Univ of Utah, Salt Lake City, UT; Sheba M.J. Mohankumar, Michigan State Univ, East Lansing, MI; Marie Billaud, Univ of Virginia, VA; Bernhard Nausch, University of Vermont, Burlington, VT; Rebekah A. I. Lucas, Texas Health Presbyterian Hospital, Dallas, TX; Matthew David, Muller, Penn State University, Hershey, PA; Li-Ya Qiao, Virginia Commonwealth University, Richmond, VA; Rainer U. Pliquet, M.D. University of Halle, Halle, Germany; Richard JA Wilson, University of Calgary, Calgary, AB, Canada; Kathleen S. Curtis, Oklahoma State Univ, Tulsa, OK; Kui Xu, Case Western Reserve Univ, Cleveland, OH; Joseph S. Marino, University of Toledo, Toledo, OH; Matthew Michael Hewitt, Johns Hopkins University, Baltimore, MD; Thekkethil Prashant Nedungadi, Univ North Texas Health Science Center, Fort Worth, TX; Colleen M. Novak, Kent State Univ, Kent, OH; Stephen Doxsey, Univ Mass Medical School, Worcester, MA; Yoshiyuki Okada, Texas Health Presbyterian Hosp, Dallas, TX; Pavithran Purushothaman, A. J. Institute of Medical Sciences, Kerala, India; Joshua M. Swift, Armed Forces Radiobiology Res Institute, Bethesda, MD; Lidia Szczupak, Univ of Buenos Aires, Buenos Aires, Argentina.