MESSAGE FROM THE CHAIR

As this is my first newsletter since taking over the chairmanship of the Neural Control and Autonomic Regulation section during last EB meeting, I thought we should once again acknowledge the tremendous and outstanding work that our outgoing chairman, Dr. Harold Schultz, has done in the last few years, sometimes in less than optimal conditions. Harold will remain with us, as Past-Chair and I will definitely rely on his experience.

As it is often the case, with the arrival of a new leadership comes a new team and I would like you to welcome our new members in the steering committee. We hope that this will be a very dynamic team and I encourage you to engage these new members and share with them your ideas on how to make NCAR the most vibrant section of the American Physiological Society.

To mark this new beginning, we would like to start by finding a new logo for NCAR. For this, we are opening a competition to the NCAR membership and soliciting artistic designs to replace the NCAR logo. Artistic sketches should be sent to Dr. Keisa Mathis (keisa.mathis@unthsc.edu) before March 1st. Make sure there is no infringement on copyright laws as you prepare your logo. The best design will be selected by the steering committee. The winner will be recognized at the NCAR reception during EB 2016 and receive a cash prize of $100. In addition, we would like to solicit ideas from the membership regarding what should be our best approach to raise funds for the section to support NCAR trainees and junior investigators. As always, please consider a tax-deductible individual donation to NCAR to help keep our awards and functions viable. The link for donations is: https://ebus.the-aps.org/EbusPPROD/Default.aspx?TabID=229&ProductId=89.

Now that we have assembled a great team, my goal as chairman is to get you, the NCAR membership, to work with the steering committee and get involved in the life of our section in order to make it stronger and more resourceful to support the development of NCAR scientists.

I look forward to seeing you all in San Diego.

Eric Lazartigues
CARL LUDWIG DISTINGUISHED LECTURESHIP FOR 2016

The NCAR Steering Committee is honored to announce that Benedito H. Machado Ph.D. has been named the Carl Ludwig Distinguished Lecturer for EB 2016. Benedito H. Machado obtained his Ph.D. in the Department of Physiology of the School of Medicine of Ribeirão Preto, University of São Paulo (USP), Brazil, working in cardiovascular physiology with Helio C. Salgado and Eduardo M. Krieger. From 1984 to 1986 he was Assistant Professor of Physiology at the State University of Campinas, Brazil, and from 1986 to 1988 a post-doc at the University of Iowa, USA, working with Michael J. Brody on the central neural control of the circulation. In 1988 he returned to Brazil as an Assistant Professor of the Department of Physiology of the School of Medicine of Ribeirão Preto, USP, where he became Professor in 2003. The research interest of Dr. Machado’s lab is mainly related to the neurotransmission of the cardiovascular and respiratory reflexes in the brainstem areas involved with the generation and modulation of the autonomic and respiratory activities. Currently his lab is also exploring the coupling of sympathetic and respiratory activities in experimental models of hypoxia in order to understand how the respiratory network can impact sympathetic overactivity in models of neurogenic hypertension.

The Ludwig Lecture by Dr. Machado will be delivered Monday at 8 AM during EB 2016 in San Diego and is entitled “Neurogenic Hypertension and the Secrets of Respiration”. A Mini-symposium, chaired by Dr. Machado, on “Respiratory-Sympathetic Coupling in Cardiovascular Dysfunctions” will follow his lecture.

NCAR SPONSORED ABSTRACT SUBMISSIONS AT EB 2016

THERE ARE MANY MORE TOPICS TO WHICH YOU CAN SUBMIT!!

Attention Abstract Submitters: Please submit abstracts to an NCAR category listed below. Thanks to the hard work of Drs. Fadel, Knuepfer and Lazartigues the number of categories has been sizably increased, making it easier for investigators with different interests to find a home at NCAR. The more abstracts we program, the more Symposia and Featured Topics will be allocated to NCAR in the future.

Reminder- featured topics (FT) include selected abstracts to be orally presented during the session. If your research relates to the FT areas, submit an abstract to that topic category. (NOTE: if selected for inclusion in a FT, abstracts will be presented twice: once as a poster and once in the oral session.)

FEATURED TOPICS:

NCAR Young Investigator Awards
The Mind Matters: Psychology as an Overlooked Variable in Autonomic Physiology
Neural Control of Inflammation-Mediated Hypertension
Vagal-Respiratory Coupling and its Implications in Health and Disease
Actions and Interactions of Baroreflexes, Chemoreflexes and Metaboreflexes in Autonomic Regulation and Heart Disease

POSTERS:

1230-APS NCAR Young Investigator Awards
1231-APS The Mind Matters: Psychology as an Overlooked Variable in Autonomic Physiology
1232-APS Neural Control of Inflammation-Mediated Hypertension
1233-APS Vagal-Respiratory Coupling and its Implications in Health and Disease
1234-APS Actions and Interactions of Baroreflexes, Chemoreflexes and Metaboreflexes in Autonomic Regulation and Heart Disease
1235-APS Sympathetic regulation in heart failure
1236-APS Sympathetic regulation in hypertension
1237-APS Sympathetic regulation in diabetes and obesity
1238-APS Differences in autonomic regulation in aging or sex
1239-APS Autonomic circuitry in thermoregulation or metabolism
1240-APS Sympathetic control of the circulation
1241-APS Arterial baroreflex function and blood pressure regulation
NCAR TRAINEE FEATURED TOPIC AND SECTION AWARDS 2016

The NCAR-sponsored trainee featured topic includes talks by the New Investigator awardee, the Michael J. Brody Young Investigator awardee, the Graduate Student awardee, and the Postdoctoral and Early Career Research Recognition Awardees.

Application materials for the awards must be completed online by Nov. 6, 2015. Go to the NCAR Awards Page (http://www.the-aps.org/mm/awards/sections/ncar.aspx) to apply. Please adhere to all eligibility and submission requirements. Note that APS members can apply for multiple awards each year, BUT applicants are eligible to receive only one abstract-based award from the Society each year.

Neural Control and Autonomic Regulation Section New Investigator Award ($1,000 plus reimbursement of the registration fee) recognizes an outstanding investigator in the early stages of their career who have made meritorious contributions to the research represented by the NCAR Section. Rank can be no greater than Assistant Professor or comparable research position in academia or industry, having held that rank for no more than 5 years and must not have held an advanced degree (PhD, MD, DVM or equivalent) for more than 10 years [November, 2005] from the date of award application deadline. The applicant must be an APS member with primary affiliation in the NCAR Section. Submit: 1) an NCAR Biosketch (use only the form provided here) that includes a one-page personal statement summarizing the applicants research contributions, a complete list of publications and abstracts (listed separately), and any grants, fellowships and awards; 2) written nominations from two regular members of the APS; 3) three reprints from published articles (first or senior authored). Unpublished or submitted manuscripts or review articles will not be accepted. Candidates will be evaluated on the quality and impact of their publications, the relation of their publications to neural autonomic regulation, and evidence of independence and promise. Although this is not an abstract-based award, the awardee will be expected to present a talk at the NCAR Trainee Featured Topic at EB and be recognized at the NCAR Reception. Individuals can re-apply but can win the award only once.

Michael J. Brody Young Investigator Award ($500 plus reimbursement of the registration fee) recognizes a promising young investigator who has made a significant research contribution to the understanding of neural control and autonomic regulation. Graduate students (post-candidacy exams) and postdoctoral and clinical fellows (within 5 years from degree [November, 2010] to the application deadline) may apply. The applicant must be an APS member with a primary affiliation in the NCAR Section. Submit: 1) a first-authored abstract to an NCAR topic at the EB meeting; 2) an NCAR Biosketch (use only the NCAR biosketch form provided here) that includes a one-page personal statement summarizing the applicants research contributions, a complete list of publications and abstracts (listed separately), and any grants, fellowships and awards; and 3) a letter of recommendation from the sponsor. Eligible candidates must indicate the date [month/year] of completion of the post candidacy exam (graduate students) or the date [month/year] of completion of the doctoral degree program (postdoctoral applicant). Award is based on current work reflected in the abstract and overall contributions to the field. The awardee will be expected to present their abstract at the NCAR Trainee Featured Topic at EB and be recognized at the NCAR Reception. Individuals can re-apply but can win
Neural Control and Autonomic Regulation Section Postdoctoral and Early Career Research Recognition Awards ($500 plus reimbursement of the registration fee) provide travel support to postdoctoral research fellows and early career investigators to present meritorious research at EB. Eligible candidates must be postdoctoral or clinical fellows or equivalent (within 5 years of degree [November, 2010] from the date of award application deadline) or early post-trainee investigators with an academic rank not higher than that of Assistant Professor or equivalent (within 7 years of doctoral degree [November, 2008] from the date of award application deadline). Research focus should be in the area of neural control and autonomic regulation. The applicant must be an APS member with primary affiliation in the NCAR Section. Applicants must submit: 1) a first-authored abstract to any NCAR topic at the EB meeting; 2) an NCAR Biosketch (use the NCAR biosketch form provided [here](#)) written by the applicant that includes a one-page personal statement summarizing the applicants research contributions, a complete list of publications and abstracts (listed separately), and any grants, fellowships and awards. Award criteria will be based on current work reflected in the abstract and overall contributions to the field. Awardees will be expected to present their abstract at the NCAR Trainee Featured Topic at EB and be recognized at the NCAR Reception. Individuals can re-apply but can win the award only once.

Neural Control and Autonomic Regulation Section DSI Outstanding Graduate Student Award ($500 plus reimbursement of the registration fee) provides travel support to a graduate student to present meritorious research at the EB. Graduate students working towards a PhD degree in the area of neural control and autonomic regulation are eligible to apply. The applicant must be an APS member with a primary or secondary affiliation in the NCAR Section. Applicants must submit: 1) a first-authored abstract to any appropriate NCAR topic at the Experimental Biology meeting; 2) an NCAR Biosketch (use only the NCAR biosketch form provided [here](#)) written by the applicant that includes a one-page personal statement summarizing the applicants research contributions, a complete list of publications and abstracts (listed separately), and any fellowships and awards; 3) a letter of recommendation from the sponsor indicating the expected date [month/year] of completion of the degree program. Award criteria will be based on current work reflected in the abstract and research accomplishments. The awardee will be expected to present her/his abstract at the NCAR Trainee Featured Topic at EB and be recognized at the NCAR Reception and Business Meeting. Individuals can re-apply but can win the award only once.

**DATA NCARnation!!**

Two years ago, NCAR added a new session called Data NCARnation to our EB program, which will be continued this year. This session will be held on **Saturday, April 2nd from 3:00-5:00 PM in Room 22** of the San Diego Convention Center. This precedes the Cannon Lecture at 5:30 PM in Room 20A. Data NCARnation is intended to provide graduate students and post-doctoral trainees with an opportunity to give a brief oral presentation to serve as a “preview” for their poster presentations during the week. This was a great success last year, and we look forward to another outstanding session this year.

**Session Format:** In this two-hour session, there will be three to four main topics (TBD) that abstracts will fall under, with three to four abstracts presented per topic. Each abstract presentation will be 5 minutes, and there will be five minutes of questions/open discussion at the end of each topic followed by a 15 minute break between topics.

**Presentation format:** We request that the presentation follow a 3-slide format: 1. Title/background. 2. Experimental design. 3. Main result/finding. Again, the goal is to present a preview of your poster.

**Abstract Selection:** Abstracts will be selected from submissions from trainees and young investigators to NCAR sessions not already programmed for an oral presentation in another session/featured topic.

**Organization:** A newly created subcommittee chaired by Dr. Monica M. Santisteban will be in charge of organizing this event. This subcommittee of NCAR trainees will be responsible for determining the topics and selection of abstracts. The Chair of NCAR, Dr. Eric Lazartigues, will serve as counsel. Trainees who wish to volunteer in the organization should contact Monica at moni1203@ufl.edu

**Award:** Posters will be judged by members of the NCAR steering committee and trainees from the NCARnation organization committee. The best poster presentation will receive a cash prize!
We ask our members to consider a small donation to our Section to allow us to provide refreshments. The link to make a donation is:

Attention Trainees: To be eligible for selection to participate in the Data NCARnation, you simply need to submit your abstract(s) to any of the Featured Topics or poster sessions listed above and make sure to select that you wish to be considered for an oral presentation. If you submit to an FT category and are not selected to present in the FT, the abstract will remain eligible for Data NCARnation.

**EB 2016 – PROSPECTIVE DATES, TIMES AND LOCATIONS OF NCAR SPONSORED SYMPOSIA, FEATURED TOPICS, AND RECEPTIONS**

**Saturday, April 2<sup>nd</sup>**
Data NCARnation

**Sunday, April 3<sup>rd</sup>**
NCAR Trainee Featured Topic (Ramchandra, Limberg)
Symposium-Bridging the Gap Between Pre-Clinical and Clinical Evidence: Treating Cardiovascular Diseases with Autonomic Modulation Therapies (Roble, Sunagawa)
NCAR Trainee Poster Session (to be scheduled later)
Symposium-The Brain-Gut Axis: Microbiome in Neural and Metabolic Diseases (Zubcevic, Raizada)

**Monday, April 4<sup>th</sup>**
Ludwig Award and mini-symposium (Machado)
GIL Symposium (NCAR co-sponsor) – Neuroimmune Crosstalk in the Gut (Gulbranson)
Featured Topic – Vagal-Respiratory Coupling and its Implications in Health and Disease (Dutschmann)
NCAR Awards, Reception and Section Meeting – evening

**Tuesday, April 5<sup>th</sup>**
Featured Topic – Neural Control of Inflammation-Mediated Hypertension (Lazartigues)
Featured Topic – The Mind Matters: Psychology as an Overlooked Variable in Autonomic Physiology (Wehrwein, Carter)
CNS Symposium (NCAR co-sponsor) – Novel Mechanisms at the Level of the Solitary Tract Nucleus (NTS) (McDougall)

**Wednesday, April 6<sup>th</sup>**
Featured Topic – Actions and Interactions of Baroreflexes, Chemoreflexes and Metaboreflexes in Autonomic Regulation and Heart Disease (Amann, Fadel)

**NCAR NEEDS YOU ON COMMITTEES**

Become active in the society and promote NCAR interests! One of the best predictors of successful section committee appointments is the number of candidate applications. We need nominations from NCAR to insure good future representation on APS committees. Don’t give up if you were not previously selected, persistence is the key to success. Also, consider applying to more than one committee. A listing of committee vacancies is provided below to guide your application submission process.

Applications for various APS committees are due in mid-January 2016. Nominees will be voted on at the EB 2016 meeting, and appointments will begin in January 2017. Descriptions of the committees and
requirements/responsibilities are found at: [http://www.the-aps.org/mm/hp/Audiences/APS-Committees](http://www.the-aps.org/mm/hp/Audiences/APS-Committees). Candidacy is simple: [http://www.the-aps.org/mm/hp/Audiences/APS-Committees/nominations](http://www.the-aps.org/mm/hp/Audiences/APS-Committees/nominations). Please contact Jason Carter ([jcarter@mtu.edu](mailto:jcarter@mtu.edu)) for more information. Jason will be able to help you determine the best match given your background and the distribution of NCAR members in the various committee, and will be able to help you submit the most competitive application. The following committees have vacancies for January 1, 2017:

<table>
<thead>
<tr>
<th>Committee</th>
<th># of Open Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Care &amp; Experimentation Committee</td>
<td>2 Members</td>
</tr>
<tr>
<td>Awards Committee</td>
<td>1 Chair, 5 members</td>
</tr>
<tr>
<td>Career Opportunities in Physiology Committee</td>
<td>2 Members, 1 Student Member, 1 Trainee</td>
</tr>
<tr>
<td>Communications Committee</td>
<td>2 Members, 1 Student</td>
</tr>
<tr>
<td>Conference Committee</td>
<td>1 Chair, 3 Member</td>
</tr>
<tr>
<td>Ray G. Daggs Committee</td>
<td>1 Chair, 2 Members</td>
</tr>
<tr>
<td>Distinguished Physiologists</td>
<td>2 Members</td>
</tr>
<tr>
<td>Education Committee</td>
<td>4 Members, 1 Trainee</td>
</tr>
<tr>
<td>Finance Committee</td>
<td>2 Members</td>
</tr>
<tr>
<td>International Physiology Committee</td>
<td>1 Chair, 4 Members</td>
</tr>
<tr>
<td>Membership Committee</td>
<td>0</td>
</tr>
<tr>
<td>Perkins Memorial Fellowship Committee</td>
<td>1 Member</td>
</tr>
<tr>
<td>Porter Physiology Development and Minority Affairs Committee</td>
<td>1 Chair, 4 Members</td>
</tr>
<tr>
<td>Publications Committee</td>
<td>2 Member</td>
</tr>
<tr>
<td>Science Policy Committee</td>
<td>1 Chair, 3 Members, 1 Trainee</td>
</tr>
<tr>
<td>Women in Physiology Committee</td>
<td>5 Members</td>
</tr>
</tbody>
</table>

**WELCOME NEW MEMBERS OF THE NCAR STEERING COMMITTEE**

Yumei Feng, MD, PhD, replacing Dr. Julian M Stewart (New York Medical College) as Secretary-Treasurer. Yumei is an Assistant Professor at the Departments of Pharmacology and Physiology & Cell Biology, University of Nevada School of Medicine. She served as APS Awards Committee from 2011-2013. She studies the neural mechanisms of hypertension and other cardiovascular diseases. Current focuses of the Feng’s laboratory are the physiological and pathophysiological role of the (pro)renin receptor (PRR) and prorenin as a novel pathway for brain renin-angiotensin system. Discoveries from Yumei’s laboratory have established a pathway for local angiotensin II formation in the central nervous system.

Rasna Sabharwal, Ph.D. is our new Member-at-Large and Awards Chair, having replaced Ted Dick (Case Western University). Rasna is currently a Research Scientist in the Department of Internal Medicine, University of Iowa. She studies neurohumoral regulatory mechanisms in neuromuscular and neurodegenerative diseases, cardiomyopathies and hypertension. Her research projects involve collaborative efforts of basic scientists and clinicians with multidisciplinary approaches. Rasna has served on the APS Women in Physiology Committee (2013-2015), and is the Secretary/Treasurer of Iowa Physiological Society (2014-2016). Along with her NCAR duties she will simultaneously serve on the APS Careers in Physiology Committee for the next three years.

Jason R. Carter, Ph.D., will be replacing Paul Fadel (University of Missouri) as the NCAR Committee-on-Committee representative. Jason is Professor and Chair of Kinesiology and Integrative Physiology at Michigan Technological University. His research interest is neural control of circulation...
in humans, with a focus on the technique of microneurography, a procedure that assesses sympathetic activity directly in humans through multi-fiber recordings of post-ganglionic sympathetic nerve activity. His current research focuses on the impact of sleep deprivation on sympathetic neural control and blood pressure. Jason is a founding member and past-president of the Michigan Physiological Society, an Executive Committee member for the American Kinesiology Association, and serves on the editorial board for the *American Journal of Physiology - Regulatory, Integrative, and Comparative Physiology*. He served as the NCAR Joint Programming Committee representative from 2008-11.

Keisa W. Mathis, Ph.D. will replace Catherine Clark (Cornell University) as the Section's Science Policy and Communication Liaison. Keisa is currently Assistant Professor in the Institute for Cardiovascular and Metabolic Diseases at the University of North Texas Health Science Center in Fort Worth, TX. Her research focuses on neuroimmune mechanisms of hypertension. Current studies in her laboratory will determine whether the nerve-to-spleen pathway, termed the cholinergic anti-inflammatory pathway, contributes to the development of autoimmune-induced hypertension. Keisa has served on the APS Porter Physiology Development and Minority Affairs Committee in recent years where she played a role in strengthening the committee’s social media efforts. Along with her NCAR duties, she will simultaneously serve on the APS Awards Committee for the next three years.

Monica M. Santisteban, Ph.D. will chair the newly-created subcommittee for the organization of the NCARnation session at Experimental Biology. This session is intended to provide NCAR trainees with the opportunity to give a brief oral presentation at EB. Monica is currently a postdoctoral associate at the University of Florida. She studies the role of the central nervous system, and particularly the involvement of neuroinflammation, in blood pressure regulation.

Amanda Ross, Graduate Student, will transition to replace Dr. Karla K. Haack (University of Nebraska Medical Center) as Trainee Advisory Committee representative and officially assume the position on January 1st 2016. She is currently a Ph.D. student at Pennsylvania State University College of Medicine. Her research project includes studying blood flow regulation in patients with peripheral arterial diseases.

BRODY FUND

Michael Brody was an inspired investigator who devoted his career to understanding cardiovascular physiology and promoting the careers of young investigators. He was an inspiration for his trainees and others who knew him. This award has been graciously supported by AD Instruments with a commitment for the next few years. In order to protect this legacy in the future, we are asking NCAR members and colleagues who knew Mike Brody to help us establish a permanent fund for this award to continue to encourage young investigators. Through this special account, your donation will be used only to support the Brody Award. [https://ebus.the-aps.org/EbusPPROD/Default.aspx?TabID=229&ProductId=1304](https://ebus.the-aps.org/EbusPPROD/Default.aspx?TabID=229&ProductId=1304)
MESSAGE FROM THE TRAINEE REPRESENTATIVE
Amanda Ross, Pennsylvania State University, aross1@hmc.psu.edu

Greetings Trainees! I hope to see you at the Experimental Biology meeting in San Diego!

Important Events For Trainees at Experimental Biology

4/2, 3:00-5:00 PM: Data NCARnation
You won’t want to miss this NCAR trainee only session to kick off the NCAR programing for EB so book your travel plans accordingly. To be eligible for selection to participate in the Data NCARnation, submit your abstract(s) to any NCAR featured topics or poster sessions listed above and select that you wish to be considered for an oral presentation. If you are not selected for an oral presentation in a featured topic, your abstract will be eligible for Data NCARnation.

4/3, 8:00-10:00 AM: NCAR Trainee Featured Topic
Watch the NCAR trainee award winners present their research!

4/4, 8:00-10:00 AM: Carl Ludwig Distinguished Lectureship

4/4, 6:30-8:00 PM: NCAR Reception and Awards Presentation
Come to socialize with other members of NCAR. Plus, there will be free food and a cash bar.

Important Deadlines

11/5- Experimental Biology Abstract Submission Deadline
*After you submit your abstract, don’t forget to apply for awards and fellowships!

NCAR Section Awards [http://www.the-aps.org/mm/awards/sections/ncar](http://www.the-aps.org/mm/awards/sections/ncar)
11/6  Data Sciences International Outstanding Graduate Student Award
11/6- Postdoctoral and Early Career Research Recognition Award
11/6- Michael J. Brody Young Investigator Award

Other APS Awards for Trainees [http://www.the-aps.org/mm/awards](http://www.the-aps.org/mm/awards)
11/5 - Caroline tum Suden/ Frances A. Hellebrandt Professional Opportunity Awards
11/5- Novel Disease Model Award for Pre-doctoral Student
11/5- Novel Disease Model Award for Postdoctoral Fellow
11/12- APS Minority Travel Fellowship Award
11/12- Excellence in Professional Student (MD or DO) Research Travel Award
11/13- International Early Career Physiologist Travel Awards
12/15- APS Presents...Phantastic Physiology Voyage: “Function Follows Form” Video Contest
12/27- K-12 Minority Outreach Fellowship
1/12- David S. Bruce Excellence in Undergraduate Research Awards
1/15- Porter Physiology Fellowships
1/24- Dale J. Benos Early Career Professional Service Award

2/1 - APS Summer Undergraduate Research Fellowships [http://www.the-aps.org/mm/Education/Undergraduate/Student-Awards-and-Events/Summer-Research-Programs](http://www.the-aps.org/mm/Education/Undergraduate/Student-Awards-and-Events/Summer-Research-Programs)

Additional Trainee Resources

- Subscribe to the Trainee Listserv [http://www.the-aps.org/mm/hp/Audiences/Students/GraduateMedical-Students](http://www.the-aps.org/mm/hp/Audiences/Students/GraduateMedical-Students)
- Join the “APS Trainees” and “American Physiological Society” groups on Facebook
- Please don’t hesitate to contact me at aross1@hmc.psu.edu if you have any questions, comments, or concerns regarding your trainee membership in the APS
IMPORTANT DEADLINES

Experimental Biology 2016, April 2 – April 6, 2016, San Diego, CA.

Abstract Submission Deadline: November 5, 2015
Discounted Registration Deadline: February 2, 2016
Discounted Housing Deadline, February 23, 2016

PLEASE NOTE THAT NCAR SESSIONS COVER ALL FOUR DAYS OF THE CONFERENCE + An “Early Bird” Special Data NCARnation on Saturday 3:00-5:00 for trainees!

Deadline for abstract submission is November 5, 2015 (both oral and posters): the abstract submission website is open.

Award Deadlines
- Beverly Pettersen Bishop Award for Excellence in Neuroscience: November 13, 2015. This award recognizes excellence in neurophysiology/neuroscience and provides $20,000 in research funds for an investigator who holds an academic rank no higher than assistant professor. It is intended for investigators belonging to the CNS and NCAR sections. http://www.the-aps.org/mm/awards/Other-APS-Awards/Early-Career-Professional#Bishop
- The PIC Novel Disease Model Award is sponsored by Novo Nordisk Research Centre China. Two awards are granted each year to a graduate student and a postdoctoral fellow who submit the best abstracts at EB meeting that describe a novel disease model. Application Deadline is December 15.
- NCAR Awards: November 5, 2015
- Caroline tum Suden/ Frances Hellebrandt Professional Opportunity Awards: November 5, 2015
- Dean Franklin Young investigator Award: November 13, 2015
- Novel Disease Model Awards for Post-/Pre-doctoral Fellows: December 15, 2015
- Excellence in Professional Student (MD or DO) Research Travel Award: November 13, 2015
- APS Minority Travel Fellowship Award: November 13, 2015
- Shih-Chun Wang Young Investigator Award: November 13, 2015
- John F. Perkins, Jr. Memorial Award for International Physiologists: October 15 2014; April 15, 2015
- International Early Career Physiologist Travel Awards: November 13, 2015
- ADInstruments Macknight Progressive Educator Award: December 1, 2015
- Porter Physiology Development Fellowships: January 15, 2016
- David S. Bruce Excellence in Undergraduate Research Awards: January 12, 2016
- Dale J. Benos Early Career Professional Service Award: January 24, 2016
- Undergraduate Research Excellence and Summer Research Fellowships: January 12, 2016

CAREER OPPORTUNITIES IN PHYSIOLOGY

The Career Opportunities in Physiology Committee supports a number of APS programs to foster the career development of physiologists of all ages:

Excellence in Professional (MD/DO) Student Travel Awards for EB 2016
Did you host a great MD or DO student in your lab this summer? Are they submitting a first author abstract to Experimental Biology? If so, you’ll want them to apply this award! It provides medical student (not MD/PhD) first-authors with up to $1,800 in reimbursement for travel and advanced meeting registration for Experimental Biology. This award is designed to foster the student’s interest in research by aiding in their participation in the Experimental Biology meeting, along with gaining valuable advice from MD/DO “meeting mentors”. Applications are due one week after the Experimental Biology abstract deadline in November. See http://www.the-aps.org/md-do for more details.

Summer Undergraduate Research Fellowships
It’s never too early to start thinking about next summer! Our committee sponsors awards to encourage undergraduate students to pursue a career in research, providing a $4000 stipend and $1300 in Experimental Biology travel support to the student, and a $300 grant to the APS member’s lab. Awards are available both for students with little or no prior research experience (Undergraduate Summer
Research Fellowship or UGSRF – see http://www.the-aps.org/ugsrf) or significant exposure to research already (>9 months; Undergraduate Research Excellence Fellowships or UGREF – see http://www.the-aps.org/ugref). The APS sponsors 3 additional summer research programs targeting underrepresented undergraduate students. See http://www.the-aps.org/summerresearch for additional details and opportunities. Applications are due February 1.

**PHYSIOLOGISTS IN INDUSTRY**

The APS Physiologists in Industry Committee (PIC) is sponsoring an exciting Symposium at EB2016, San Diego, entitled “Metabolic Syndrome and the Pathway of Drug Development; From Bench to Bedside” on Sunday, April 3, 10:30–12:30pm at San Diego Convention Center. This symposium focuses on the known risk factors involved in the Metabolic Syndrome. It will also cover basic research and various steps (ranging from early drug discovery, applied preclinical, development, safety, and the clinical and regulatory hurdles) that are required to get a drug from conception to FDA approval.

The PIC Novel Disease Model Award is sponsored by Novo Nordisk Research Centre China, a world leader in developing innovative treatments for Diabetes. Two awards are granted each year to a graduate student ($500) and a postdoctoral fellow ($800) who submit the best abstracts at EB meeting that describe a novel disease model. Our 2015 PIC Novel Disease Model Award was presented at the APS Business Meeting on Tuesday, March 31 at 5:45 PM in Room 210BC of the Boston Convention Center. Our 2015 Pre-doctoral and Postdoctoral awardee were: Ms. Casey Y. Carmichael, Boston University School of Medicine, Dept. of Pharmacology & Experimental Therapeutics (abstract title: “The renal afferent nerves: A role in countering salt-sensitive hypertension”) and Dr. Denise C. Cornelius, Ph.D., University of Mississippi Medical Center, Dept. of Pharmacology (abstract title: “Placental Ischemia-Induced TH17 Cells Mediate the Pathophysiology Associated with Preeclampsia”, respectively. The PIC Novel Disease Model Award invites all students and postdoctoral fellows to apply. Please login to the APS web for additional information (http://www.the-aps.org/mm/awards/Other-APS-Awards/Postdoc-or-Resident#ndm).

**FUTURE EVENTS**

- American Heart Association 2016 Council on Hypertension Scientific Sessions: September 14 - 17, 2016, Orlando, FL. [http://my.americanheart.org/professional/Sessions/Hypertension/Hypertension-Scientific-Sessions_UCM_316905_Sub HomePage.jsp](http://my.americanheart.org/professional/Sessions/Hypertension/Hypertension-Scientific-Sessions_UCM_316905_SubHomePage.jsp)
- International Union of Physiological Sciences - IUPS 2017 - The Rhythms of Life: Rio de Janeiro, Brazil. Website: IUPS2017.com or for further information write IUPS2017@mci-group.com
- The Editors of AJP-Regulatory, Integrative and Comparative Physiology extend an invitation to submit original research articles related to the “Sex and Gender Differences in Cardiovascular, Renal and Metabolic Diseases.” Drs. Jane Reckelhoff and Heddwen Brooks will serve as Editors for this Call. For more information, please visit this link to the journal’s webpage (http://ajpregu.physiology.org/). The goal of this Call for Papers is to serve as a complement to the APS Conference “Cardiovascular, Renal and Metabolic Disease: Gender and Physiology” that will be held in Annapolis, MD, in November 2015.

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