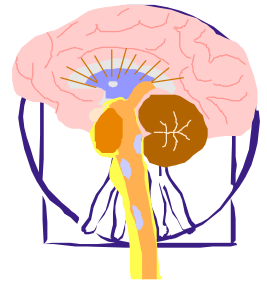




Neural Control and Autonomic Regulation Section NEWSLETTER



August 2009

From the Chair

Greetings! I hope everyone's summer is going well. I would like to share with you recent NCAR news and plans for the coming year.

New Steering Committee Members: Amy Arnold was appointed as our Trainee Advisory Committee representative at the EB meeting, and Deborah Scheuer and Alberto Travagli were recently elected by the membership. Deborah will serve as the Committee-on-Committees representative and Alberto will assume the Member-at-Large position. Special thanks to those who have recently rotated off the committee – Alan Sved, David Mendelowitz, Jeff Potts, and Chris Madden – for their commitment to NCAR and efforts over the past several years.



NCAR Members on APS Committees: I want to recognize the primary NCAR members who will be serving on APS committees in 2010 – a very important contribution (see Table). Congratulations to the new members who will begin their terms in 2010. Thanks to Meredith Hay who is rotating off the Finance Committee. NCAR representation on APS committees is critical. Please consider applying! The duties and responsibilities of the various committees and the nomination/application procedures are described on the [APS website](#). If you are interested in serving on a committee or have questions, please contact Deborah Scheuer, our Committee-on-Committees representative.

NCAR Members (Primary) on APS Committees-2010

Monika Fleshner, Univ of Colorado-Boulder
Gaylen Edwards, Univ of Georgia (NEW)
Sarah Clayton, Univ of Nebraska (Trainee) (NEW)
Eric Lazartigues, Louisiana State Univ-New Orleans
Robert Speth, Univ of Mississippi (Alternate) (NEW)
Alan Sved, Univ of Pittsburgh (NEW)
Mark Knuepfer, St. Louis Univ School of Medicine
Chet Ray, Penn State Univ (NEW)
Helio Salgado, Univ of Sao Paulo-Ribeirao Preto
Paul Fadel, Univ of Missouri-Columbia
Anthony JM Verberne, Univ of Melbourne
James Galligan, Michigan State Univ
Angela Grippo, Northern Illinois Univ

Animal Care and Experimentation
Animal Care and Experimentation
Animal Care and Experimentation
Awards
Awards
Communications
Education
Finance
International
Membership
Membership
Public Affairs
Women in Physiology

Plans and New Initiatives: A major goal of the section this year is to increase involvement and facilitate career development of our trainees. To help achieve this aim, we are working towards increasing the number of NCAR awards targeted to students and postdoctoral fellows and enhancing the NCAR trainee experience. Stay tuned for updates on these initiatives soon. Also, send me or any of the Steering Committee members your ideas for achieving our goal.

Approaching election of APS President-Elect and Councilors: Nominations are invited from the general APS membership until September 8, 2009. I urge you to nominate qualified individuals for these important positions. ([APS Nomination Page](#)).

Congratulations to President-Elect of FASEB and NCAR member Bill Talman!

I am very pleased and excited to have the opportunity to lead NCAR over the next 3 years. Please email or call me with suggestions, new ideas, and/or any concerns you may have related to NCAR.

Mark Chapleau

CARL LUDWIG DISTINGUISHED LECTURESHIP FOR 2010

The NCAR steering committee is pleased to announce that the 2010 Carl Ludwig Distinguished Lecturer will be Dr. Shaun Morrison, Senior Scientist in the Division of Neuroscience at the Oregon National Primate Research Center, Oregon Health & Science University, Portland, OR. Professor Morrison's research interests include central autonomic networks for sympathetic nervous system control of thermal, metabolic and cardiovascular regulation. Dr. Morrison's lecture will encompass his work on the functional organization, rhythmicities, developmental influences and pharmacology of the CNS circuits that regulate body temperature, blood flow, blood glucose, and other critical homeostatic variables. We are pleased to honor his outstanding contribution to our current understanding of sympathetic regulation.



NCAR SECTION AWARDS FOR 2009

Congratulations to the following recipients of NCAR section awards and honors in 2009:

- | | |
|---|---|
| Carl Ludwig Distinguished Lectureship: | Murray Esler, Baker Heart Research Institute, Melbourne, Australia |
| Michael J. Brody Young Investigator Award: | Erica Wehrwein, Mayo Clinic |
| New Investigator Award: | Patrick Mueller, Wayne State University |
| Research Recognition Awards: | Takuya Kishi, Kyushu University
Jason Carter, Michigan Tech
Scott Davis, UT Southwestern Med Center
Daniel Mulkey, University of Connecticut |

ATTENTION TRAINEES AND JUNIOR INVESTIGATORS: Descriptions of NCAR awards including eligibility and application process for 2010 can be found at the [NCAR Awards Page](#).

MARK YOUR CALENDAR!
The deadline for Abstract and Awards submissions for EB 2010 is Nov. 4, 2009

EB 2010 PROGRAMMING PREVIEW

NCAR-Sponsored Sessions

Date	Time	Session Type	Title	Chair(s)
Sunday April 25	8:00 AM- 9:00 AM	Distinguished Lecture	Carl Ludwig Distinguished Lectureship of the APS Neural Control & Autonomic Regulation Section	Shaun Morrison (Speaker)
Sunday April 25	9:00 AM- 10:00 AM	Minisymposium	TBA	Shaun Morrison
Sunday April 25	10:30 AM- 12:30 PM	Symposium	Autonomic adjustments to stress	Chester A. Ray Jason R. Carter
Monday April 26	8:00 AM- 10:00 AM	Symposium	Cannon's Voodoo Death 2010: Autonomic Triggers and Adverse Cardiac Events	William T. Talman Alan Kim Johnson
Monday April 26	10:30 AM- 12:30 PM	Featured Topic 1194-APS	Neural mechanisms of sympathetic activation in cardiovascular diseases	Hui-Lin Pan
Tuesday April 27	10:30 AM- 12:30 PM	Featured Topic 1195-APS	Mitochondrial oxidants and antioxidants in autonomic regulation and cardiovascular function	Matthew C. Zimmerman
Tuesday April 27	3:15 PM-5: 15 PM	Featured Topic (Selected trainee abstracts)	Donald Reis Memorial Featured Topic – NCAR Trainees	TBA
Wednesday April 28	8:00 AM- 10:00 AM	Featured Topic: 1193-APS	The brain, behavior and autonomic function in health and disease	Angela J. Grippo Julia A. Moffitt

POSTERS:

- 1196-APS Central autonomic regulation
- 1197-APS Neural control of cardiorespiratory function
- 1198-APS Neural control of cardiovascular function
- 1199-APS Neural control of renal function
- 1200-APS Neural mechanisms in cardiovascular disease

Attention Abstract Submitters: We want to stress the importance of submitting abstracts to a NCAR category listed above. The more abstracts we program, the more Symposium and FT's we will be allocated to program in the future. Submitting abstracts to NCAR sessions does make a difference!

See you at the NCAR Reception/Awards Presentations and Social!
Date and Location at EB 2010 to be announced

EB 2010 – Blood Pressure Regulation Track

Date	Time	Session Type	Title	Chair(s)
Sunday April 25	8:00 AM- 10:00 AM	Featured Topic (WEH)	Autoregulation and renal injury	Heather Drummond
<i>Sunday April 25</i>	<i>10:30 AM- 12:30 PM</i>	<i>Symposium (NCAR)</i>	<i>Autonomic adjustments to stress</i>	<i>Chester A. Ray Jason R. Carter</i>
Sunday April 25	3:15PM- 5:15 PM	Symposium (RESP)	Interaction between respiratory and limb muscle blood flow during exercise	Peter D. Wagner Jerome Dempsey
Sunday April 25	3:15 PM- 5:15 PM	Featured Topic (PG)	Molecular mechanisms and genetics of hypertension	Carol Moreno Quinn Anna Dominiczak
Monday April 26	8:00 AM- 10:00 AM	Featured Topic (WEH)	Neural control of blood pressure and fluid volume homeostasis: Sodium metabolism	Thomas Cunningham
<i>Monday April 26</i>	<i>10:30 AM- 12:30 PM</i>	<i>Featured Topic (NCAR)</i>	<i>Neural mechanisms of sympathetic activation in cardiovascular diseases</i>	<i>Hui-Lin Pan</i>
Monday April 26	10:30 AM- 12:30 PM	Symposium (PG)	RNAi Interference in Cardiovascular Disease	Zhongjie Sun
Monday April 26	10:30 AM- 12:30 PM	Featured Topic (RESP)	Pulmonary Hypertension: Mechanisms and Mediators	Larissa Shimoda Thomas C. Resta
Monday April 26	3:15 PM - 5:15 PM	Symposium (CV)	Myosin Light Chain Kinase and Phosphatase in Arteriolar Myogenic Tone	Michael Hill William Cole
Monday April 26	3:15 PM- 5:15 PM	Symposium (CV)	Neuromodulatory cytokines in cardiovascular functions	Mohan Raizada Julian Paton
Wednesday April 28	8:00 AM- 9:00 AM	Symposium (WEH)	New Insights into the Relationship Between Sodium Metabolism and Blood Pressure Regulation	Michael H. Humphreys Peter Bie
Wednesday April 28	8:00 AM- 10:00 AM	Symposium (CEPS)	New Insights into the Pulmonary Circulation	John West Frank Powell

EB 2010 – Hypoxia & Oxidative Stress Track

Date	Time	Session Type	Title	Chair(s)
Sunday April 25	8:00 AM - 10:00 AM	Featured Topic (CV)	Reactive oxygen species in vascular tone and remodeling	Steven Miller
Monday April 26	8:00 AM- 10:00 AM	Featured Topic (RESP)	Hyperoxia- and reactive oxygen species-induced stress in the lung	Kaushik Parthasarathi Christopher Waters
Tuesday April 27	8:00 AM- 10:00 AM	Symposium (CV)	Novel molecular targets for modulating cardiac cell death and survival	David Roth

Tuesday April 27	8:00 AM- 10:00 AM	Featured Topic (EEP)	Cardiovascular adjustments at high altitude	Mikael Sander
Tuesday April 27	10:30 AM- 12:30 PM	Symposium (Hypoxia)	Inflammatory responses and hypoxia-inducible pathways	Sean Colgan Holger K. Eitzchig
<i>Tuesday April 27</i>	<i>10:30 AM- 12:30 PM</i>	<i>Featured Topic (NCAR)</i>	<i>Mitochondrial Oxidants and Antioxidants in Autonomic Regulation and Cardiovascular Function</i>	<i>Matthew C. Zimmerman</i>
Wednesday April 28	8:00 AM- 10:00 AM	Symposium (CEPS)	New Insights into the Pulmonary Circulation	John West Frank Powell
Wednesday April 28	8:00 AM- 10:00 AM	Featured Topic (RESP)	Mechanisms of Peripheral Chemoreception	Daniel K. Mulkey
Wednesday April 28	10:30 AM- 12:30 PM	Symposium (CV)	O-GlcNAcylation: A new signaling paradigm for the cardiovascular system	Lance Wells Natasha Zachara
Wednesday April 28	10:30 AM- 12:30 PM	Featured Topic (Hypoxia)	Hypoxia effects on cardio- respiratory function and integration	Kendall F. Morris

NCAR PROGRAMMING FOR EB 2011

"HELP PLAN EB 2011! Now is the time to begin preparing symposium and/or featured topic proposals for EB 2011. NCAR is responsible for programming 2 symposiums and 4 featured topics. Proposals are due March 30, 2010, and the selection of proposals will occur in April at EB 2010.

Please visit the [NCAR website](#) to learn more about submitting a symposium or featured topic or contact Jason Carter (jcarter@mtu.edu), Joint Programming Committee Representative for NCAR.

OTHER FUTURE MEETINGS

The International Society of Autonomic Neuroscience (ISAN) will hold the 6th Congress of ISAN in Sydney, Australia, September 1-4, 2009.

More information available at the [ISAN Web Page](#)

ISAN Satellite Meeting: Invasive and Non-Invasive Studies of the Human Autonomic Nervous System, Saturday 5 – Sunday 6 September 2009, Macarthur (60 km south of Sydney). Organizer: Prof Vaughan Macefield, University of Western Sydney, Australia.

Contact: v.macefield@uws.edu.au tel. +61 2 9852 4654

ISAN Satellite Meeting: Autonomic Adjustments to Environmental Challenges. Sunday 6 – Monday 7 September 2009, Newcastle (160 km north of Sydney). Organizers: Dr Eugene Nalivaiko, University of Newcastle, Australia. Assoc Prof Pascal Carrive, University of New South Wales, Australia. Prof Benedito Machado, University of San Paulo at Ribeirao-Preto, Brazil.

Contact: Eugene.nalivaiko@newcastle.edu.au tel. +61 2 4921 5620

ISAN Satellite Workshop: Studying dysfunction in rodent models of spinal cord injury. Saturday 5 September 2009, Location: Randwick (6 km east of Sydney CBD). Organizers: Assoc Prof Ida Llewellyn-Smith, Flinders University, Australia. Assoc Prof Janet Keast, University of Sydney, Australia

The First International Symposium on Neurocardiology, October 1-3, 2009, Belgrade, Serbia. Please see the [Serbian Autonomic Society Site](#).



20th International Symposium on the Autonomic Nervous System of the American Autonomic Society (AAS) will be held in St. Thomas, US Virgin Islands, November 11-14, 2009.

Deadline for late-breaking poster abstracts is **September 15, 2009**.

See the [American Autonomic Society Site](#).

Future Experimental Biology (EB) Meetings:

April 24 - 28, 2010, Anaheim, CA

April 9 - 13, 2011, Washington, DC

April 21 - 25, 2012, San Diego, CA

WELCOME TO NCAR: NEW MEMBERS FROM JAN-AUG 2009

Regular Members, Primary Affiliation

Don E. Burgess Ph.D., Professor, Asbury College Dept Natural Sciences, Wilmore KY.

Benoni B. Edin M.D., Ph.D., Professor, Umea Univ, Integrative Med Biology, Umea, Sweden.

Rubens Fazan, Jr., M.D., Ph.D., Asst Professor, Univ São Paulo Sch Med, Ribeirão Preto, Brazil.

Ann K. Goodchild Ph.D., Asst Professor, Macquarie Univ Sch of Advanced Med, Sydney, Australia.

Claude Julien Ph.D., Dir Research, Univ Lyon Dept Physiology, Lyon, France.

Allison Kleiber, Ph.D., Assist Professor, St. Louis College of Pharmacy, St. Louis, MO.

Eugene Nalivaiko M.D., Ph.D., Sr Lecturer, Univ Newcastle Sch Biomed Sciences, Callaghan, Australia.

Valter J. Santana-Filho Ph.D., Asst Professor, Federal University of Sergipe, Aracaju, Brazil.

Hossam Shaltout Ph.D., Res Fellow, Wake Forest Univ School of Medicine, Winston Salem, NC.

Xiaorui Tang Ph.D., Asst Professor, Penn State College of Medicine, Hershey, PA.

Susan P. Travers, Ph.D., Professor, The Ohio State Univ College of Dentistry, Columbus, OH.

Megan M. Wenner Ph.D., Postdoc Fellow, Yale Univ School of Medicine, New Haven, CT.

Matthew R. Zahner Ph.D., Postdoc Fellow, Johns Hopkins Univ Sch Med, Baltimore, MD.

Regular Members, Secondary Affiliation

Benjamin R. Arenkiel Ph.D., Postdoc Fellow, Duke Univ Med Ctr, Durham, NC.

Gregory M. Blain Ph.D., Postdoc Fellow, Univ Wisconsin, Madison, Madison, WI.

Jimo Borjigin Ph.D., Asst Professor, Univ Michigan Medical School, Ann Arbor, MI.

Luis A. Bras-Rosario Ph.D., Fellow, Inst Gupbenkian Liencia, Oeiras, Portugal.

Laurence L. Brunton Ph.D., Asst Professor, Univ California, San Diego, La Jolla, CA.

Xian Cao M.D., Ph.D., Postdoc Fellow, Cornell Univ, Ithaca, NY.

He Cui Ph.D., Asst Professor, Medical College of Georgia Brain/Behavior Discovery Inst, Augusta, GA.

Carlo J. DeLuca Ph.D., Professor, Boston Univ Neuromuscular Research Ctr, Boston, MA.

Ying Dong M.D., Postdoc Fellow, Univ Florida, Gainesville, FL.

John J. Durocher Ph.D., Assist Professor, Univ of Wisconsin Parkside, Kenosha, WI.

Daniel J. Felleman Ph.D., Professor, Univ Texas Medical Sch, Houston, Houston, TX.

Douglas E. Fitzovich Ph.D., Professor, Lincoln Memorial Univ, DeBusk Coll, Harrogate, TN.

John J. Foxe Ph.D., Prof and Dir Cognitive Neurosci, City College of New York, New York, NY.

John P. Florian M.D., Ph.D., Res Physiologist, Mavy Experimental Diving Unit, Panama City, FL.

Gregory D. Funk Ph.D., Professor, Univ Edmonton Faculty Medicine/Dentistry, Edmonton, AB, Canada.

Fabrizio Gabbiani Ph.D., Assoc Professor, Baylor College Medicine, Houston, TX.

Leif Gibb Ph.D., Postdoc Fellow, Massachusetts Inst Technology Cambridge MA.

David J. Glass M.D., Global Head, Novartis Inst for Biomedical Research Muscle Diseases, Cambridge, MA.

Hiroaki Gomi Ph.D., Res Scientist, NTT Communications Science Labs, Kanagawa, Japan.

Jay Hegde Ph.D., Asst Professor, Medical College of Georgia, Augusta, GA.

Michael Helwig Ph.D., Postdoc Fellow, Technische Univ Munchen, Freising - Weihenstepha, Germany.

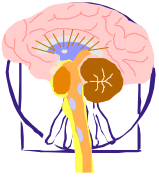
Vardan T. Karamyan Ph.D., *Asst Professor, Texas Tech Univ HSC, St Amarillo, TX.*
Andrew J. King Ph.D., *Assoc Res Invest, Abbott Laboratories Dept Integrative Pharmacology, N Chicago, IL.*
Sebastian Kracun Ph.D., *Postdoc Fellow, Univ California-LA, Los Angeles, CA.*
Mark J. Lehmkuhle Ph.D., *Postdoc Fellow, Univ Utah, Salt Lake City, UT.*
Ian D. Loram Ph.D., *Reader Neuromuscular Control, Manchester Metropolitan Univ, Manchester, United Kingdom.*
Chao Ma M.D., *Asst Professor, Yale Univ Sch of Medicine, New Haven, CT.*
Jie Ma Ph.D., *Res Assoc, Georgetown Univ Medical Center, Washington, DC.*
C.W. James Melling Ph.D., *Asst Professor, Univ Western Ontario, London ON, Canada.*
Osamu Miyamoto Ph.D., *Professor, Kawasaki Medical School, Okayama, Japan.*
Nazareno Paolucci M.D., Ph.D., *Asst Professor, Johns Hopkins Sch of Medicine Baltimore, MD.*
Beth A. Parker Ph.D., *Dir Exercise Research, Hartford Hospital Preventive Cardiology, Hartford, CT.*
Viswanathan Rajagopalan Ph.D., *Postdoc Fellow, Stanford University, Stanford, CA.*
Josef P. Rauschecker Ph.D., *Director, Georgetown Univ Dept Physiology/Biophysics Washington, DC.*
John M. Rinzel Ph.D., *Professor, New York Univ Central Neurological Sciences, New York, NY.*
Alexander C. Schultz Ph.D., *Asst Professor, Justus-Liebig Univ Giessen, Giessen, Germany.*
Ronen Segev Ph.D., *Sr Lecturer, Ben Gurion Univ of the Negev Life Sciences, Beer Sheva, Israel.*
Fanny M. Storck Ph.D., *Asst Professor, Alfort School of Veterinary Medicine, Maisons-Aleort, France.*
Qian-Quan Sun Ph.D., *Asst Professor, Univ Wyoming, Laramie, WY.*
Pouya Tahsili-Fahadan M.D., *Postdoc Fellow, Medical Univ South Carolina Dept Neurosciences, Charleston, SC.*
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Patrick J. Whelan Ph.D., *Assoc Professor, Univ Calgary, Calgary, AB, Canada.*
Jack Yamuy M.D., *Res Scientist, V.A. Greater LA Healthcare System, Los Angeles, CA.*

Student Members, Primary Affiliation

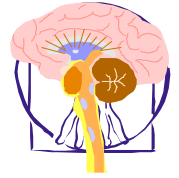
Titia L. King, *College of Veterinary Medicine, Univ Missouri Dalton Cardiovascular Res Center, Columbia, MO.*
Marcos T. Kuroki, *Dept Integrative Biology & Physiology, Univ Minnesota Twin Cities, Minneapolis, MN.*
Daniel Lima, *Dept Physiol & Biophysics, Federal Univ of Minas Gerais, Belo Horizonte, MG, Brazil.*
Noah J. Marcus, *Dept Kinesiology, Univ Wisconsin, Madison, WI.*
Sam D. Perez, *Dept Physiology, Loma Linda Univ, Loma Linda, CA.*
Christopher E. Schwartz, *Exercise Sci Health & Physical Education Michigan Technological Univ, Houghton, MI.*
Kendrick M. Shaw, *Dept Biology, Case Western Reserve Univ, Cleveland, OH.*

Student Members, Secondary Affiliation

Chelsea R. Barrera, *Dept Kinesiology-Exercise Science, Univ Texas, San Antonio, Austin, TX.*
Kari K. G. Clark, *Dept Integrative Physiology, Univ North Texas Hlth Sci Ctr, Fort Worth, TX.*
Sarah E. Dougherty, *Dept Integrated Biomed Sciences, Univ Alabama, Birmingham, AL.*
Aminat O. I. Fulani, *Dept Physiology, Univ Ilorn Coll Health Sciences, Ilorin, Kwara State, Nigeria.*
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Adam Institoris, *Dept Physiology/Pharmacology, Wake Forest Univ Hlth Sci, Winston-Salem, NC.*
Augusto M. Lima, *Dept DCBAS, Univ Center of Belo Horizonte, Minas Gerais, Brazil.*
Mark K. Lukewich, *Kingston General Hospital GIDRU Wing, Queens University, Kingston, ON, Canada.*
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Takashi Tarumi, *Dept Kinesiology & Health Education, Univ Texas At Austin, Austin, TX.*
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Bianca A. Torres-Hernandez, *Dept Pharm & Toxicology, Univ Puerto Rico Medical School, Guaynabo, PR.*
Lindsey C. Vedder, *Dept Physiol & Biophysics, Univ Alabama At Birmingham, Birmingham, AL.*
Alexander Yang, *Dept Cell Biology & Anatomy, Louisiana Hlth Sciences Ctr, New Orleans, LA.*



NCAR Trainee Page



MESSAGE FROM THE TRAINEE REPRESENTATIVE *Amy C. Arnold, Wake Forest University, aarnold@wfubmc.edu*

It's that time of year to put together your new and exciting data and submit an abstract to attend the 2010 Experimental Biology (EB) meeting in Anaheim, California. Not only will this be an opportunity to explore and participate in great science, you can also take a break and visit Disneyland!

Don't forget to submit your abstract by **Wednesday, November 4th** and apply for awards to help fund your travel. Please consider the NCAR sponsored Poster and Featured Topic categories mentioned on page 3 of this Newsletter.

APS and its sections (including NCAR) offer competitive awards to help fund travel to EB: [EB Awards](#).

The **NCAR Research Recognition Awards** and **Michael J. Brody Young Investigator Award** are now open to graduate students (post candidacy exam), as well as postdoctoral and clinical fellows working in the area of neural control and autonomic regulation. Junior investigators (academic rank not higher than that of Assistant Professor or equivalent) are eligible for the New Investigator Award as well as Research Recognition Awards. The NCAR Awards provide reimbursement for the EB registration fee as well as a travel award. For more information regarding trainee eligibility and application process for the Michael J. Brody Young Investigator Award and NCAR Research Recognition Awards, please visit: [NCAR Awards](#).

Also, take advantage of some of the great trainee and networking opportunities offered by APS at the EB 2010 meeting including the opening night APS reception and the following trainee sessions:

Saturday, April 24th

Science Beyond the Laboratory: From Grad School to Retirement

Sunday, April 25th

Government Careers in Physiology Revealed

Helping Students put the Pieces Together: Fostering Integrative Learning of Physiology

Monday, April 26th

Publishing 101: Do's and Don'ts of Publishing in APS Journals

Publish, Not Perish: How to Survive the Peer Review Process

Tuesday, April 27th

A primer for the new PI: How to Herd Cats AND Keep your Boss Happy

Also, APS is accepting applications for the Spring 2010 professional skills sessions for trainees until **October 15th, 2009**. These sessions are held January 14-17 in Orlando, FL and include "Writing and Reviewing for Scientific Journals" and "Making Scientific Presentations: Critical First Skills".

For more information, visit the [APS Professional Skills Web Page](#)

Keep your eye out for our spring newsletter outlining more trainee sessions. If you would like to receive the Trainee Newsletter subscribe by sending an e-mail with "Trainee Listserv" in the subject line to Education@The-APS.org. Feel free to contact me with any questions!

CURRENT NCAR STEERING COMMITTEE

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(end of term)

2012

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2012

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2011

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2012

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2010

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2011

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2012

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Curt D. Sigmund, Ph.D.
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JOIN THE NCAR LISTSERVE for up-to-date information and newsletters.

Visit the [APS Home Page](#)

Click on "Members Only" link.

Log in (Username is your email; default password is your member ID#)

Click on APS Lesser link.

Select "NCARSEC" and any other relevant links

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

Please consider making a tax-deductible donation directly to NCAR to help support section activities including programming, awards, and trainee travel funds. To make your donation to NCAR, go to:

[APS Donation Page](#)