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April, 2002

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## **BY-LAWS Election Results**

The revisions to the by-laws passed during the recent election. Therefore, the election for new membership to the NCAR Steering committee will now occur after the annual EB meeting. In addition, the term of the past-chair has been extended from one year to three years, allowing more overlap between the past and new chair. Thanks to all who voted on these issues

### **Elections for Steering Committee Member**

The Neural Control and Autonomic Regulation (NCAR) Section of the American Physiological Society will be holding an election for a seat shortly after the EB meeting. Candidates will be announced at the NCAR Reception on April 22, 6:30 pm in the Hilton Hotel, Salon 15. In addition, candidates will be introduced on the ballot that will be mailed out after the meeting. Please take the time to vote for the candidate of your choice!

### **Donald J. Reis Memorial**

We will be announcing plans for the Donald J. Reis award this spring. There is still time to donate to the memorial. Tax deductible contributions to that fund can be sent to the Donald J. Reis Memorial Fund, c/o The American Physiological Society, 9650 Rockville Pike, Bethesda, MD 20814-3991. Those seeking further information may contact Martin Frank at [mfrank@aps.faseb.org](mailto:mfrank@aps.faseb.org), Jeanne Seagard at [jseagard@mcw.edu](mailto:jseagard@mcw.edu), or Susan Barman at [barman@pilot.msu.edu](mailto:barman@pilot.msu.edu)

# EXPERIMENTAL BIOLOGY MEETING

## "Translating the Genome"

### APRIL 20-24, 2002

### New Orleans, LA

Many events are planned for the annual Experimental Biology Meeting. These include the Carl Ludwig Distinguished Lecture on Sunday, April 21; a reception and business meeting on Monday, April 22 and breakfast for graduate students and postdoctoral fellows with our distinguished lecturer on Tuesday, April 23. In addition, we have a lot of interesting programming, including one symposium and three featured topics sponsored by NCAR. These events are outlined below. Check your program and the APS website for additional information on these and other sessions. Make your plans now!

#### **Sponsored Symposium**

Neural Control of the Cerebral Circulation, William T. Talman. Tuesday, April 23, 10:30 AM - 12:30 PM

#### **Sponsored Featured Topics**

Hypothalamic PVN Neuromodulatory Mechanisms in Autonomic Regulation, Glenn M. Toney and J.E. Stern, Sunday, April 21, 8:00 AM - 10:00 AM

Sensory Afferents and Cardiovascular Regulation, Donna Wang and Steven Mifflin. Monday, April 22, 3:15 PM - 5:15 PM

Chemoreflexes in Health and Disease: Recent Perspectives in Cardiovascular Control, Harold Schultz. Tuesday, April 23, 3:15 PM - 5:15 PM

### **Carl Ludwig Distinguished Lecturer 2002**

**Dr. Suzanne Oparil, M.D.**

### **"The Anterior Hypothalamic Area: Gatekeeper in the Pathogenesis of Salt-Sensitive Hypertension"**

**Sunday, April 21, 10:30 AM - 11:30 AM**

**Convention Center, Room 244**

The **Carl Ludwig Distinguished Lecture** at Experimental Biology 2002 will be given by **Dr. Suzanne Oparil**, University of Alabama, Birmingham. This lectureship is named in honor of Carl Ludwig in recognition of his many and important contributions to understanding autonomic regulatory mechanisms. The lectureship is sponsored by the Neural Control and Autonomic Regulation Section of the American Physiological Society.

The title of Dr. Oparil's lecture will be "The Anterior Hypothalamic Area: Gatekeeper in the Pathogenesis of Salt-Sensitive Hypertension." Dr. Oparil is Professor of Medicine at the University of Alabama, Birmingham. Research in Dr. Oparil's laboratory spans the gamut from molecular and cellular studies to the whole animal to clinical trials. This work has two general themes: 1) the pathogenesis of vascular disease, with particular emphasis on sexual dimorphism and the protective effects of female sex hormones and 2) the pathophysiology and treatment of high blood pressure. Dr. Oparil, in collaboration with colleagues at UAB, has developed and characterized a model of salt-sensitive hypertension in the spontaneously hypertensive rat (SHR-S). Using this model, they have demonstrated that the nervous system contributes importantly to the development of salt sensitive hypertension. Past studies have shown that in the SHR-S, excessive dietary salt leads to a significant selective decrease in noradrenaline release from nerve terminals in the anterior hypothalamic area. This in turn causes decreased inhibition of sympathetic nervous system activity and a resultant rise in arterial pressure. Current studies are elucidating the mechanisms by which the anterior hypothalamus plays a role in salt sensitive hypertension.

Dr. Oparil will attend the **NCAR Reception/Business meeting** on Monday, April 22. Please attend and use this opportunity to meet Dr. Oparil and mingle with other NCAR members. She will also attend an informal **breakfast with students and postdoctoral fellows** on Tuesday, April 23. This will be a unique opportunity for young investigators to interact in an informal way with one of the leaders in our field. Please plan to attend the lecture and the meetings with Dr. Oparil.

## **NCAR BUSINESS MEETING AND RECEPTION FOR THE DISTINGUISHED LECTURER**

**April 22, 6:30 PM  
Hilton Hotel, Salon 15**

Everyone is invited to the NCAR reception on Monday evening. This will be your chance to meet with the distinguished lecturer and mingle with other NCAR members. We will have a short business meeting and announce the winners of our Brody and Young Investigator Awards. Please make plans to attend!

### **Students and Postdoctoral Fellows Meet the Distinguished Lecturer**

**Tuesday, April 23, 7:30 am  
Hilton Hotel, Marlborough B**

All students and postdoctoral fellows are invited to an informal breakfast with Dr. Oparil on Tuesday morning, April 23, 7:30 am, in the Hilton Hotel. This is an opportunity to meet an outstanding individual who is involved in neurophysiological research. Please take advantage of this chance to talk to our distinguished lecturer.

### **Special Topics Forum at EB2002 Re-examining the Antihypertensive Effects of Brain AV3V Lesions: Where are we now?**

**Approximately 11:30 am on Sunday, April 21, Convention Center Room 244**

Twenty-five years ago, Buggy, Fink, Johnson, and Brody published (Circ. Res. 40 (Suppl 1): 110-117, 1977) a seminal report showing that electrolytic destruction of brain tissue surrounding the antero-ventral aspect of the third cerebroventricle in rats eliminated renal hypertension. Similar AV3V lesions, as they became known, were shown subsequently to prevent and reverse a variety of forms of experimental hypertension. Despite a flurry of work on this area in the early 1980's, the mechanisms underlying the remarkable effects of these lesions have remained obscure. Curiously, research focused on this antihypertensive effect of AV3V lesions has all but disappeared.

The goal of this NCAR Special Topics Forum is to encourage discussion of this effect of AV3V lesions. Discussants (Drs. A.K. Johnson, S. Oparil, V. Brooks, and W.W. Blessing) have each been asked to spend 5 minutes addressing the question: "In the year 2002, what, if anything, should we think about the antihypertensive actions of AV3V lesions?" The Discussants have been encouraged to provide provocative views, in an effort to stimulate lively discussion. Following the statements by each of the Discussants, plenty of time is scheduled for open discussion.

**Please come and actively participate. This session will occur immediately following the Carl Ludwig Distinguished Lecture, to be delivered by Dr. Suzanne Oparil, at 10:30 am on Sunday, April 21, Convention Center Room 244.**

## **SPECIAL EB PROGRAMMING BY THE WOMEN IN PHYSIOLOGY COMMITTEE**

The APS Women in Physiology Committee and ASPET Committee on Women in Pharmacology have co-organized a session for EB '02 entitled: "**How to Be a Good Mentor; How to Be a Good Mentee**" to be held Sunday, April 21, 9:00 AM- noon in Room 218 of the Morial Convention Center. This session is designed to provide mentors and mentees of both genders with advice on the importance of good mentoring to promote development from undergraduate through advanced stages of a scientific career. In addition to brief (5-10 min presentations) by 5 invited panelists, considerable time will be devoted to audience participation. This will include opportunities for attendees to offer their input on topics to be covered in the formal presentations and to submit questions to the panelists on issues related to mentoring. Attendees will also work in small groups (5-10 individuals) to discuss how they would respond to some real-life issues that involve interactions of mentors and mentees as presented in "mentoring vignettes." In addition, participants will be given a hand-out that will include valuable information on resources available to assist individuals in being good mentors and good mentees.

## **NCAR PROGRAMMING FOR EB 2003**

The EB 2002 meeting is rapidly approaching, but it is already time to start thinking about EB 2003. Now is your chance to propose a Symposium or Featured Topic session for that meeting. Organize your own session, and make sure that the science you want to be presented at EB has a forum. This is your opportunity to organize a great program around your primary research interest.

NCAR is responsible for scheduling three Featured Topic sessions and one Symposium at EB 2003. The programming of these sessions is entirely in the hands of our section, and it is our responsibility to ensure that we have high quality programming.

If you want to propose a Featured Topic or Symposium, please contact Alan Sved ([sved@pitt.edu](mailto:sved@pitt.edu) or 412-624-6996), the NCAR Programming Committee representative. More information regarding Featured Topics and Symposia can be found on the APS website [http://www.the-aps.org/sect\\_groups/neural/auto.htm](http://www.the-aps.org/sect_groups/neural/auto.htm). The NCAR Programming Committee is meeting just prior to the start of EB 2002 to discuss programming for EB 2003, so the chance of your proposal being accepted is best if we know of your intent prior to that meeting.

## **Guidelines for Programming for APS**

For **symposium**, each organizer will be allocated monies for use in the reimbursement of relevant travel expenses (airfare, per diem, housing, etc.) of invited speaker(s), both member and nonmember. The amount provided to each organizer from APS funds will not exceed \$4,000. All APS-sponsored symposium speakers and chairs will receive complimentary registration. The symposium organizer will direct the allocation

of speaker travel reimbursement. The organizer may raise additional funds from outside sources. APS does not provide honoraria.

**Featured topics** are similar to *minisymposia* in that they are pre-formed (prior to the mailing of the Call for Papers) oral sessions including a session title, chairperson and not more than two *featured presenters*. Featured presenters, or invited speakers, may present work not represented by a submitted abstract. All other presentations are selected from the submitted abstracts. Abstract authors choose the preferred *featured topic* category from the call for papers as an indication that they are willing to present their research in both an oral and poster format. Either the chairperson of the featured topic or the primary sponsoring section's Joint Program Committee Representative is responsible for selecting which abstracts to include in the featured topic session. NCAR, via APS funding, provides each featured topic organizer \$750 for each featured topic to be used in support of travel or activities related to the featured topic session, including registration and travel expenses.

### **FUTURE CARL LUDWIG DISTINGUISHED LECTURERS**

Each section has a Distinguished Lectureship, which is given each year at the EB meeting. The NCAR Distinguished Lectureship is the Ludwig Distinguished Lecture. This is a major focus of programming for the section. In addition to giving the lecture, the individual who is chosen also is asked to participate in several section activities, including an informal breakfast with students and postdocs. We are very interested in input from members of the section regarding who is chosen. Please contact any steering committee member with your suggestions for this distinguished lecturer for 2003 or future years.

## NEURAL CONTROL AND AUTONOMIC REGULATION SECTION COMMITTEES

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