

# The American Physiological Society

## Membership Services



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## NEWSLETTER

### WATER AND ELECTROLYTE HOMEOSTASIS SECTION

October 2004

#### News from the Chair

*Joey P. Granger, WEH Section Chairman*

The WEH Section of APS has had a busy and productive year preparing for the International Union of Physiological Sciences (IUPS) 2005 meeting in San Diego. The IUPS meeting promises to be an exciting meeting for all WEH members. Although the format of the combined IUPS/EB meeting will be somewhat different than the past EB meetings, the program should be of great interest to all. One noticeable difference in the format of the meeting is the topic categories for abstract submission. Since the categories are different from the past, many of you may not know which categories to choose to attract WEH members. Therefore, I encourage all WEH members to submit abstracts to the following categories:

#### FEATURE TOPIC SESSION CATEGORIES

1023-IUPS	Gender Effects on Arterial Pressure Regulation (Chris Baylis)
1024-IUPS	Genetic Models of Hypertension (Curt Sigmund)
1025-IUPS	IUPS Grand Rounds on Hypertension (John Hall)
1026-IUPS	Role of Renal Mechanism in Long Term Control of Blood Pressure (Roger Dampney and Thomas Lohmeier)

IUPS FEATURED TOPICS CAN BE SCHEDULED AS EARLY AS FRIDAY, APRIL 1, 2005. PLEASED BE PREPARED TO PRESENT YOUR ABSTRACT ON FRIDAY, APRIL 1 IF SELECTED FOR INCLUSION IN AN IUPS FEATURED TOPIC. **All abstracts selected for inclusion in a featured topic will be presented TWICE: once in the oral, featured topic sessions and once as a poster presentation.**

#### PHYSIOLOGY POSTER SESSION CATEGORIES

1162-IUPS	Neural Control of Cardiovascular and Renal Function
1174-IUPS	Neural, Humoral Control of Fluid
1178-IUPS	Renal Hormones, Autocoids and Blood Pressure
1181-IUPS	Volume and Renal Function

The WEH Business meeting and luncheon is scheduled for Sunday, April 3, 2005 (see details below). Dr. Guiseppi Bianchi, our Starling Lecturer, will be attending the business meeting where he will receive his award and meet with students, fellows, and section members. I encourage all members to mark their calendars and plan to attend this important WEH section event.

An important goal of the WEH steering committee is to increase membership in our Section, and we have made some progress in this area. New membership is essential to the continued vitality of our Section. We need your help in recruiting new members to our Section. If you have any suggestions for new members, you may forward them to me and I will do the rest (see Membership Drive below).

Finally, elections for several WEH steering committee positions will be held after the first of the year. If you or one of your colleagues is interested in serving on the WEH steering committee, please email your nominations to me by December 1, 2004. I look forward to seeing you all in San Diego.

## 2005 Ernest H. Starling Distinguished Lectureship

We are honored to have Dr. Guiseppi Bianchi present the 2005 Ernest H. Starling Distinguished Lecture at the IUPS/Experimental Biology meeting. Dr Bianchi is Professor of Renal Medicine and Director of Division of Nephrology, Dialysis and Hypertension of Ospedale San Raffaele, Milan, Italy. Professor Bianchi's research interest has been in the area of cardiovascular and renal diseases. He performed some of the first kidney cross-transplantation studies that demonstrated an important pressor role of the kidney in "genetic" or "primary" forms of hypertension. His most recent work has focused on the molecular mechanisms underlying enhanced tubular reabsorption in hypertension. Utilizing an array of experimental approaches, including isolated kidney, tubular cells, and cell membranes together with cross



immunization experiments, he postulated that an abnormal protein, subsequently identified as *adducin*, could account for the enhanced tubular Na transport in hypertension. Dr. Bianchi's lecture entitled "The genetic control of renal Na handling in primary hypertension" will be on Saturday, April 2, 2005. Dr. Bianchi will also attend our annual business meeting/luncheon on Sunday, April 3 where he will receive his award and meet with students, fellows, and section members.

## WEH Business Meeting in San Diego set for Sunday, April 3, 2005

*Jane Reckelhoff, WEH Secretary/Treasurer*

Please mark your calendars for the Annual WEH Business Luncheon at IUPS/EB 2005 that will take place at the Harbor House in San Diego, on Sunday, April 3, 2005 at 12:15 PM. See the Spring 2005 newsletter for more information regarding tickets, menu and location.

## Nominations for WEH Section Steering Committee Positions: Election set for January/February 2005

A number of WEH section steering committee positions will open next year. If you or one of your colleagues is interested in serving on the WEH steering committee, please email nominations to Joey Granger at [jgranger@physiology.umsmed.edu](mailto:jgranger@physiology.umsmed.edu) by December 1, 2004. We need nominations for the following positions:

- 1) Joint Program Committee WEH Representative
- 2) Committee on Committees WEH Representative
- 3) Secretary/Treasurer
- 4) Councilor

## WEH Section Membership Drive

The WEH Section will pay the first year of membership fees for any individual who wishes to become either a student member or a regular member of APS and designates the WEH Section as their primary affiliation. Simply fill out a membership form and send it to Joey Granger and he will do the rest. While there are many advantages to membership, one especially nice benefit is that all members have access to all APS Online Journals.

## **APS Committee Nominations**

*Michael Brands, WEH Program Representative*

We did well as a section in committee appointments this past year. Congratulations to the following 5 regular members approved by Council for appointment on January 1, 2005: Heather Drummond to Long-Range Planning, Kirk Hamilton to Membership, Fruzsina Johnson to Porter Physiology Development, Jane Reckelhoff to Public Affairs, and Ron Freeman to Senior Physiologists.

What committees to aim for next time? **Awards, Communications, Finance, Publications, Women in Physiology** committees all are, or will be, without section representation, and we should focus on these. We also could be successful with nominees for the Education, Membership, and Ray G. Daggs Award committees.

Please consider nominating yourself for one of these committees, or recommend that a colleague consider being nominated. If they are not a primary member of the W&E section, recruit them; you can change section affiliations from the APS web site. It is best to start the nomination process as soon as possible, but please have them turned in by December 3. You can work directly through APS or send your materials to me via e-mail (mbrands@mcg.edu). If you send them to APS directly, PLEASE e-mail me a copy so that I can coordinate our section's efforts.

All the information about these committees and the forms you need are at: <http://www.the-aps.org/committees/> If you click on "nomination form" you will see a description of the revised nomination procedure, which now requires only 2 forms: a candidate form that you fill out, and an endorsement form filled out by a person you choose to endorse your nomination. If you e-mail me a draft of your nomination form before sending it off to APS, I may be able to offer suggestions for revision that can enhance your nomination.

## **Trainee Advisory Committee**

*Sean D. Stocker, WEH Trainee Representative*

In July 2003, the APS established a Trainee Advisory Committee comprised of one student member of APS, graduate student or postdoctoral fellow, selected by each section of the society. The primary responsibility of this newly formed committee is to investigate the needs of trainees and determine how the society can provide necessary support. At EB2004, the Trainee Committee discussed our plans for the upcoming months and our immediate goals are 1) to distribute a survey investigating the needs of trainees, 2) organize sessions relevant to trainees at future EB meetings, 3) distribute a trainee newsletter, and 4) to develop a trainee website. Our next meeting will be this fall, September 27-28th, in Bethesda. Since this committee was designed for the needs of APS trainee members, we strongly encourage graduate students and postdoctoral fellows for suggestions and ideas but will be happy to receive input from faculty and scientists at all stages. Stay tuned for future updates and please do not hesitate to contact me regarding trainee-related issues.

Please take a look at the APS trainee and mentoring website:

[www.the-aps.org/careers/careers1/mentor/index.htm](http://www.the-aps.org/careers/careers1/mentor/index.htm)

Trainees: Do not forget to apply for trainee-related awards for EB2005:

[www.faseb.org/meetings/eb2005/call/awards.pdf](http://www.faseb.org/meetings/eb2005/call/awards.pdf)

## **Joint Programming Committee**

*Richard Roman, WEH JPC Representative*

The following 2005 IUPS/EB meeting highlights may be of interest to the WEH members:

### **DISTINGUISHED LECTURESHIPS**

*Thursday, March 31, 2005*

The Wallace O. Fenn Lecture

**Peter Agre**

*Friday, April 1, 2005*

Carl W. Gottschalk Distinguished Lectureship of the APS Renal Section

**Soren Nielsen**

*Friday, April 1, 2005*

IUPS President's Lecture

**Allen W. Cowley**

*Saturday, April 2, 2005*

Ernest H. Starling Distinguished Lectureship of the APS Water & Electrolyte Homeostasis Section

**Guiseppi Bianchi**

*Saturday, April 2, 2005*

Physiology in Perspective-The Water B. Cannon Memorial Award Lecture

*Supported by: The Grass Fndn.*

**Gerald E. DiBona**

*Sunday, April 3, 2005*

Carl Ludwig Distinguished Lectureship of the APS Neural Control & Autonomic Regulation Section

**Julian Paton**

*Sunday, April 3, 2005*

Joseph Erlanger Distinguished Lectureship of the APS Central Nervous System Section

**Sten Grillner**

*Tuesday, April 5, 2005*

Robert Pitts Lecture

**Jurgen Schnermann**

### **SYMPOSIA**

Cell Biology of Sodium Transport in Kidney

**Francois Verrey and Rebecca Hughey**

Diagnosis and Treatment Utilizing Natriuretic Peptides

**David L. Vesely**

Imprinting, Development and the Programming of Adult Health

**Kent Thornburg**

Inflammatory Aspects of Hypertension: Insights from the Microcirculation

**Geert W. Schmid-Schonbein**

Integrative Aspects: Ca<sup>2+</sup> Signaling in the Nervous System

**Alex Verkhratsky**

Metabolic Syndrome: From Clinical Insights into New Therapies

**Christine Schnackenberg**

Molecular Mechanisms Linking Sodium Retention to Hypertension

**Mordecai P. Blaustein**

Neural Control of the Circulation in Health and Disease

**Patrice Guyenet**

Neural Regulation of Hydroelectrolytic Homeostasis

**Jose Antunes Rodrigues and Maria Jose Alves da Rocha**

Renal NaCl Reabsorption: Molecular Insights into Human Blood Pressure Control

**Paul A. Welling**

**FEATURED TOPICS, CONTROVERSIES and ABSTRACT-BASED ORAL SESSIONS**

Gender Effects on Arterial Pressure Regulation

**Chris Baylis**

Genetic Models of Hypertension

**Curt Sigmund**

IUPS Grand Rounds on Hypertension

**John Hall**

Reactive Oxygen Species in the Vasculature

**Michael Wolin and Paul Vanhoutte**

Role of Kidney versus Brain in Blood Pressure Control and Hypertension

**Roger Dampney and Thomas Lohmeier**

Sensing Cardiovascular Homeostasis: Novel Molecules as Mechano- and Chemosensors

**Donna H. Wang and Donald L. Gill**

Sex/Gender, Hormones and Cardiovascular Function

**Sue Duckles and Valerie Schini-Kerth**

**APS and Water and Electrolyte Section Awards**

**The New Investigator Award in Regulatory and Integrative Physiology** (\$1,000) was established to encourage young investigators to continue research careers in cardiovascular, renal, and neuroendocrine integration. The award is presented annually at the business luncheon of the Water and Electrolyte Homeostasis Section to a new investigator who has made important contributions to our understanding of the integrative aspects of cardiovascular, renal, and neuroendocrine physiology in health and/or disease. Applicants should not be above the rank of Assistant Professor or a comparable position in a research track at an academic institution or in industry. The recipient of the award will be invited to publish a manuscript on this presentation in the *American Journal of Physiology-Regulatory, Integrative & Comparative Physiology*. Any member of the APS in good standing may apply or be nominated for the award. Applications are reviewed by the Awards Committee of the Water and Electrolyte Homeostasis Section and should include: (1) a curriculum vitae of the nominee; (2) a brief one-page summary and analysis of the research contributions of the nominee; (3) a complete list of publications; and (4) two letters of nomination from members of the APS. Applicants are requested to email information to [jgranger@physiology.umsmed.edu](mailto:jgranger@physiology.umsmed.edu) by January 31, 2004.

**The Water & Electrolyte Homeostasis Section Research Recognition Travel Award** (\$500) provides support for travel expenses for junior investigators to attend the annual 2005 IUPS Congress Meeting. To be eligible, the investigator must be either a pre-doctoral student or within ten years of receiving his/her Ph.D. or M.D. degree. Applicants must be first author on an abstract submitted to an IUPS Water & Electrolyte Homeostasis-related topic category. The Section Steering Committee will judge the abstracts. Applicants are requested to email a copy of their submitted abstract to [jgranger@physiology.umsmed.edu](mailto:jgranger@physiology.umsmed.edu) by November 30, 2004.

**The Caroline tum Suden/Frances A. Hellebrandt Professional Opportunity Award** (provides \$500 and complimentary registration for the meeting) will be granted to as many as thirty-six male or female graduate students or postdoctoral fellows who present a contributed paper at the meeting. To be considered for the award, the candidate must be the first author of an abstract submitted to APS and either the candidate or the abstract sponsor must be a member of APS (please supply name if not on abstract). The candidate must submit the following: a copy of his/her abstract; the Award Certification form which indicates the student status and approximate date the nominee will be available for employment; and a one-page letter written by the candidate stating his/her career goals; his/her research goals, role in the research described in the abstract, and reasons why he/she is deserving of the award. The letter should NOT restate the abstract. Successful abstracts typically include: a clearly stated hypothesis or aim; the technical approach to the study; the pertinent results obtained with quantitative and statistical comparisons, when appropriate; and a clearly stated conclusion, including the significance of the results to the field. Candidates may submit ONE abstract for consideration. Awardees will be notified prior to March 1, 2004 and must be present at the APS Business Meeting to receive their award. Mail copy of abstract submission, Award Certification form, and one-page letter to Melinda Lowy, Education Office, 9650 Rockville Pike, Bethesda, MD 20814. Deadline for application is November 3, 2004.

**The David S. Bruce Awards for Excellence in Undergraduate Research** (provides \$500 award) will be granted to up to four currently enrolled undergraduate students who are presenting a poster at the EB meeting. To be considered for the award, the undergraduate student must be the first author of an abstract submitted to APS and either the candidate or the abstract sponsor must be a member of APS. The student must: 1) be enrolled as an undergraduate student at the time of the application and at the time of the EB meeting; 2) be the first author on a submitted abstract for the EB meeting (students may not submit more than one abstract for the award competition each year); 3) be working with an APS member who attests that the student is deserving of the first authorship; 4) submit a one-page letter that discusses his/her role in the research and his/her career plans; and 5) have not previously won the Bruce Award. Abstracts will be reviewed by the David S. Bruce Award Committee prior to the meeting. The Award Committee will select 12-15 finalists. These students will be notified of their finalist status well in advance of the meeting. Successful abstracts typically include: a clearly stated hypothesis or aim; a technical approach to the study; the pertinent results obtained with quantitative and statistical comparisons, when appropriate; and a clearly stated conclusion, including the significance of the results to the field. At EB, all undergraduate students will be invited to present their research posters not only during their regular scientific session but also at a special poster session. Prior to the poster session, the finalists will be asked to set up their posters and will be interviewed by the Award Committee. Posters will be judged on quality of the poster and oral presentation, quality of graphics used, organization of the poster, creativity used in displaying and describing the research as well as in the development of the research project, novelty of the research project, and the student's display of his/her understanding of the work and its significance. After the interviews, the Committee will decide the final awardees. All finalists will receive certificates. Mail copy of abstract submission, Award Certification form signed by advisor certifying undergraduate status, and one-page letter to Melinda Lowy, Education Office, 9650 Rockville Pike, Bethesda, MD 20814. Deadline for application is November 10, 2004.

### **Dates to Remember IUPS 2005**

**Meeting Dates:** March 31 - April 6, 2005 (IUPS March 31 - April 5. EB April 2 - April 6)

**Abstract Deadline:** November 3, 2004 (\$60 processing fee)

**Advanced Registration Deadline:** February 4, 2004

**Housing Registration Deadline:** February 21, 2004.

**Web site meeting information:** [www.iups2005.org](http://www.iups2005.org)

## Water and Electrolyte Homeostasis Section Steering Committee

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Proposed Committee \_\_\_\_\_  
Nominee's Last Name \_\_\_\_\_  
Section Affiliation \_\_\_\_\_  
Date \_\_\_\_\_

**Nomination Form for  
APS Committee Appointments**  
(Use this form for yourself or another individual)

NAME OF NOMINEE \_\_\_\_\_  
First Middle Last

POSITION/TITLE \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TELEPHONE NO.: \_\_\_\_\_ FAX NO.: \_\_\_\_\_

E-MAIL ADDRESS \_\_\_\_\_

Is the nominee an APS member who actively participates in APS meetings?

Have you personally verified that the nominee is willing to devote the time and effort to carry out the Committee's charge?

What special expertise qualifies the nominee for the Committee specified above?

With which Section is the nominee affiliated?

NOMINATOR (please print) \_\_\_\_\_

NOMINATOR's  
INSTITUTION \_\_\_\_\_

ADDRESS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*Mail completed form to:*  
American Physiological Society  
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\_\_\_\_\_  
Signature