

The American Physiological Society

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NEWSLETTER

WATER AND ELECTROLYTE HOMEOSTASIS SECTION

March 2005

News from the Chair - *Joey Granger*

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. I encourage all members to attend our annual business meeting and luncheon that will be held on Sunday, April 3, 2005 (see details below). The agenda for our business meeting will include committee reports from the WEH steering committee chairs and presentation of WEH section awards. The annual business meeting and luncheon provides an opportunity for students, fellows, and section members to meet the Starling Distinguished Lecturer-Dr. Guiseppe Bianchi, the recipient of the WEH New Investigator Award- Dr. Barbara Alexander, and the APS Recognition awardees- Drs. Rebecca Falin, Norman Taylor, and Minolfa Prieto-Carrasquero. Finally, an election for Chair and Trainee representative of the WEH section will be held after the IUPS meeting. If you or one of your colleagues is interested in serving as Chair or trainee representative of the WEH section, please email your nominations to me at jgranger@physiology.umsmed.edu by May 1, 2005. I look forward to seeing you all in San Diego.

Business Meeting Luncheon Sunday, April 3, 2005 - Harbor House, San Diego

Our annual business meeting and luncheon will be held on Sunday, April 3, 2005, from 12:15-1:45 PM. The Harbor House is located at 831 W. Harbor Drive, in San Diego. The luncheon is an excellent time for our members to interact in an informal atmosphere. It also provides the opportunity for students, fellows, and section members to meet the Distinguished Lecturer, the recipient of the Young Investigator Award, and all other section awardees. During the luncheon, Section awardees will be introduced and presented their awards.



Menu: There will be a choice of two entrées: chinese chicken salad or grilled shrimp. Dessert will be chocolate mousse.

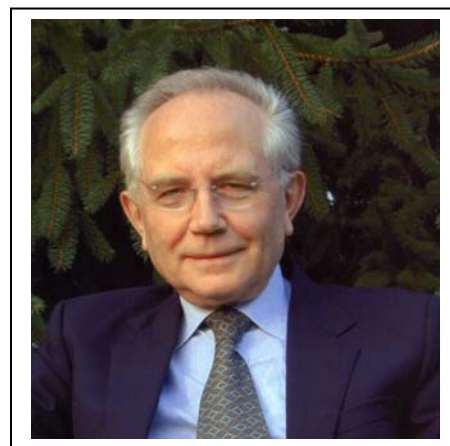
Tickets: \$15.00 per person (\$5.00 for graduate students). Please purchase tickets by March 25, 2005 by sending a check to Jane Reckelhoff (**Checks payable to The American Physiological Society**) and include your **email address and a choice of entrée for each person**, as the tickets for the luncheon will be electronic. One check can be sent for several individuals but the names of each individual must be included. Non-US members can receive a ticket but withhold payment until the meeting by emailing Janie with your firm commitment to attend (jreckelhoff@physiology.umsmed.edu). **Directions:** Go out the back of the San Diego Convention Center, (i.e. board walk side); walk past the Marriott and Hyatt Hotels on the waterfront board walk and the Harbor House is next.

Ernest H. Starling Distinguished Lectureship

Dr. Giuseppe Bianchi will present the Ernest H. Starling Distinguished Lectureship for 2005 on Saturday, April 2, at 10:30 AM, Room 33, at the Convention Center. 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 is entitled: "*The genetic control of renal Na handling in primary hypertension.*" Dr. Bianchi will also attend our annual business meeting/luncheon where he will receive his award.

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

2004 Christopher S. Wilcox, Georgetown University
2003 Friedrich C. Luft, Humboldt University, Berlin
2002 Richard P. Lifton, Yale University
2001 Richard J. Roman, Medical College of Wisconsin
2000 Gerald F. DiBona, University of Iowa
1999 Alan Kim Johnson, University of Iowa
1998 John Hall, University of Mississippi
1997 Jurgen Schnermann, University of Michigan
1996 Allen Cowley, Jr., Medical College of Wisconsin
1995 Pierre Corvol, College de France
1994 John Laragh, Cornell University Medical Center



WEH Section New Investigator Award in Regulatory and Integrative Physiology

The New Investigator Award in Regulatory and Integrative Physiology 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. The 2005 WEH Section New Investigator Awardee is Barbara Alexander, Ph.D., from the University of Mississippi Medical Center, Jackson. Dr. Alexander will present her lecture entitled "*Low birth weight, the kidney and hypertension*" immediately after Ernest H. Starling Distinguished Lecture on Saturday, April 2, in Room 33, at the Convention Center



Water & Electrolyte Homeostasis Section Research Recognition Travel Awardees

The Water & Electrolyte Homeostasis Section Research Recognition Travel Award provides support for travel expenses for junior investigators to attend the 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 recipients of the 2005 WEH Research Recognition Award are:

- 1) Rebecca Falin-Case Western Reserve University
- 2) Norman Taylor- Medical College of Wisconsin
- 3) Minolfa Prieto-Carrasquero- Tulane University

New WEH Section Officers

The WEH Section would like to congratulate our new officers and committee delegates. Dr. Michael Brands will replace Dr. Richard Roman on the Joint Program Committee. Dr. Jane Reckelhoff will replace Dr. Brands on the Committee on Committees. Dr. Jennifer Pollock will replace Dr. Reckelhoff as secretary/treasurer. New Councilors are Drs. Dave Mattson and Thomas Cunningham. We would like to thank Rich, Mike and Janie for their previous service to the WEH section.

The WEH Section New Members Program

The WEH Section will pay the first year registration fee 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 contact Joey Granger at jgranger@physiology.umsmmed.edu 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.

WEH Steering committee

The WEH Steering committee will meet on Saturday, April 2, at 12:00 noon in the Irvine room of the Marriott Hotel and Marina. Lunch will be available beginning at 11:30am in the APS office located in the Warner Center.

APS Committee Nominations -Mike Brands

Thank you to all who put your name in for an APS committee and for those who took the time to fill out endorsement forms. We have excellent nominees for the Awards, Animal Care, Women in Physiology, International, Communications, Daggs Award, and Education committees. Because it is difficult to place all nominees in a given year, it is essential that we have a large list of volunteers like this to help ensure the placement of as many section members as possible on committees. The Committee on Committees votes on these assignments at EB, and then the selections are approved, and sometimes modified, by Council, this Summer. If you do not make it this time, don't despair; it often takes a couple of tries to get on, and repeat applicants generally have an advantage. Thanks again, and I'll have an update at our business lunch at EB.

Highlights in Programming-IUPS-EB 2005 -Richard Roman

Distinguished lectures and awards

WEH Starling Lecture: *"The genetic control of renal Na handling in primary hypertension."* Dr. Giuseppe Bianchi. Saturday, April 2, 10:30 am, Convention Center, Rm 33.

The WEH New Investigator Award Lecture: Dr. Barbara Alexander, *"Low birth weight, the kidney and hypertension."* Saturday, April 2, immediately after the Starling Lecture in Convention Center, Rm 33.
Wallace O. Fenn Lecture: Peter Agre, Thursday, March 31, 6:00 PM, Convention Center Room 20D.

IUPS President's lecture: Dr. Allen Cowley, *"Physiology and genomics-natural partners"* Friday, April 1, 5:45-6:45 PM. Convention Center Room 33.

Walter B. Cannon Lecture: Dr. Gerald DiBona, *"The wisdom of the body: Neural control of the kidney."* Saturday, April 2, 5:45 PM. Convention Center Room 33.

Robert Pitts Lecture; Dr. Jurgen Schnermann, *"Signaling across the JG Apparatus-Message and Messenger"* Tuesday, April 5, 9:00-10:00 AM, Convention Center Room 30 B/C.

Carl Ludwig Lecture: Dr. Julian Paton, *"Genes and proteins in the blood brain barrier affecting arterial pressure regulation: Implications for the etiology of hypertension."* Sunday April 3, 10:30 AM, Convention Center Room 33.

Joseph Erlanger Lecture: Dr. Sten Grillner, *"The selection and intrinsic function of motor programs: From microcircuits to integrative function."* Sunday, April 3, 3:15 PM, Convention Center Room 33.

Carl W. Gottschalk Lecture: Dr. Soren Neilsen, *"Aquaporin water channels in kidney: Physiology and Pathophysiology."*, Friday, April 1, 2:00 PM. Convention Center Room 33.

Featured topics

"Novel mechanisms of central neuro-cardiovascular control. Organizers: Drs. Davisson and Schriehofer, Friday April 1, 8:00-10:00 AM, Convention Center Room 29D.

"Reactive oxygen species in the vasculature." Organizers: Drs. Wolin and Vanhoutte, Friday, April 1, 10:30-12:30 PM, Convention Center Room 28E.

"Gender effects on arterial blood pressure regulation." Organizer: Dr. Chris Baylis. Sunday, April 3, 10:30 AM-12:30 PM, Convention Center, Room 31A.

"Genetic models of hypertension." Organizer: Dr. Curt Sigmund. Sunday, April 3, 3:15-5:15 PM, Convention Center Room 31A

"Controversy: Role of kidney vs. brain in blood pressure control and hypertension". Organizers: Drs. Fink and Lohmeier. Monday, April 4, 10:30 AM-12:30 PM, Convention Center Room 31A.

"Sex/gender, hormones and cardiovascular function." Organizers; Drs. Duckles and Schini-Kerth, Monday, April 4, 10:30 AM -12:30 PM, Convention Center Room 28E.

"Sensing cardiovascular homeostasis: Novel molecules as mechano- and chemosensors." Organizers: Drs. Wang and Gill, Monday, April 4, 10:30 AM-12:30 PM, Convention Center Room 30A.

"IUPS Grand Rounds on Hypertension." Organizer: Dr. Hall, Monday, April 4, 3:15-5:15 PM, Convention Center Room 31A.

"Metabolic syndrome: From clinical insights to new therapies." Organizers: Drs. Schnackenberg and Montrose-Rafizadeh, Monday, April 4, 3:15-5:15 PM, Convention Center Room 30D/E.

Symposia

"Cell biology of sodium transport in kidney." Organizers: Drs. Verrey and Hughey, Friday April 1, 3:15-5:15 PM; Convention Center, Rm 31B/C.

"Renal NaCl reabsorption: Insights into human blood pressure control." Organizer: Dr. Welling, Saturday, April 2, 8-10 AM; Convention Center, Rm 30B/C.

"Molecular mechanisms linking sodium to hypertension." Organizers: Drs. Blaustein and Hamilton, Saturday April 2, 3:15-5:15 PM; Convention Center, Rm 31B/C.

"Comparative genomics of blood pressure control: Genetic maps in humans, rats and mice." Organizers: Drs. Corvol and Kwitek, Sunday, April 3, 8-10 AM; Convention Center, Rm 31B/C.

"Integrative aspects: Ca²⁺ signaling in the nervous system." Organizer: Dr. Vekhratsky, Monday, April 4, 8:00-10:00 AM, Convention Center Room 32.

"Neural control of the circulation in health and disease." Organizer: Dr. Guyenet, Monday, April 4, 10:30 AM-12:30 PM, Convention Center Room 31B/C.

"Imprinting, development and the programming of adult health." Organizer: Dr. Thornburg, Monday, April 4, 3:15-5:15 PM, Convention Center Room 33.

"Inflammatory aspects of hypertension: Insights from the microcirculation." Organizer: Dr. Gert Schmid-Schonbein. Tuesday, April 5, 10:30-12:30; Convention Center, Room 31B/C.

"Inflammatory aspects of hypertension: Insights from the microcirculation. Organizer: Dr. Schmid-Schonbein, Tuesday, April 5, 10:30 AM-12:30 PM, Convention Center Room 31 B/C.

Trainee News *Sean D. Stocker*

This year's EB/IUPS Meeting has numerous sessions/symposiums targeted at graduate students, postdoctoral fellows, and young investigators (see below). A complete outline will be listed in the upcoming APS TRAINEE NEWSLETTER that will be distributed in the middle of March. Additionally, the Water and Electrolyte Section will be looking for a new Trainee Representative to serve on the Steering Committee and the APS Trainee Advisory Committee. Please contact the Steering Committee or myself if you are interested.

Trainee-Related Symposia / Workshops for EB/IUPS 2005

APS Career Symposium: International Collaboration: "Science Knows No Boundaries"

Sunday, April 3rd - 5:45 – 7:45 pm

Convention Center, Room 30B/C

ASPET Women in Pharmacology/APS Women in Physiology Committees Workshop: "Managing a Laboratory"

Monday, April 4 - 8:00 – 10:00 am

Marriott Hotel, Marina D

NIH Grant Writing Workshops <https://ns2.faseb.org/careerutilities/ebnih05.pdf>

Peer Review of NIH Research Grant Applications

Formula for Grant Success

NIH Mock study Section

FASEB Career Development/Mentoring Workshop: "Crafting and Individual Development Plan (IDP) That Works" <http://www.faseb.org/opa/ppp/educ/idp.html>

SATURDAY, April 2 - 3:00 – 6:00 pm

FASEB Career Resources/Placement Service Area, San Diego Convention Center

Pre-registration Required: http://www.faseb.org/opa/idp_2005/IDP_attendance_only_application.pdf

FASEB Career Development Workshops

FASEB holds seminars and workshops related to resume construction, interviewing skills, career development/goals, succeeding in graduate school, and job searching throughout the EB/IUPS meeting.

Below is a full list of workshops. For a more complete description of the workshops, please see

<https://ns2.faseb.org/career/crc/ebcdsw.pdf>

NOTICE FROM IUPS AND A J P- Regulatory, Integrative and Comparative Physiology

In conjunction with the symposium at the XXXVth International Congress of Physiological Sciences and EB2005 on "Molecular Mechanisms Linking Salt to Hypertension" and the publication of the papers presented at the symposium, the *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology* is soliciting the submission of original manuscripts in this exciting and rapidly expanding field. Papers may describe research that relates to any aspect of the molecular mechanisms that underlie salt-dependent hypertension. These include studies of: the renal transport mechanisms that influence salt retention and salt wasting; the humoral links between salt retention and arterial sodium transport; the arterial sodium and calcium transport systems involved in long-term control of arterial tone; the specific neural and endothelial molecular mechanisms that are influenced by salt retention and that, in turn, alter arterial function; and, pharmacological agents that interfere with specific steps in the pathway from salt retention to hypertension. A special section of an issue dedicated to this subject is planned for publication in early 2006. **Manuscripts intended for inclusion should be submitted by June 30, 2005.** The responding authors should indicate in their cover letter that the submitted manuscript is in response to this call for papers. The manuscript will undergo normal peer review. If published, the article will be highlighted together with other studies appearing in response to this call.

If you have any questions or already have a manuscript in this area submitted to the *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology* and would like to have it included for this series, please contact Mordy Blaustein (Phone: 410-706-3345; Fax: 410-706-8341; E-mail: mblauste@umaryland.edu).

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