



## The American Physiological Society Fall 2002 Renal Section Newsletter

### A MESSAGE FROM YOUR RENAL SECTION CHAIR:

We hope to see everyone at the EB 2003 meeting (April 11-15, 2003, in San Diego, CA). It should be an exciting scientific program, particularly since it will be a 7-society meeting. Remember to purchase your ticket to the Renal Dinner prior to the meeting (see information from Jeff Garvin elsewhere in this newsletter, or contact him at: jgarvin1@smtpgw.is.hfh.edu for information or tickets).

At the end of the EB 2002 meeting, **Chris Baylis** retired as Renal Section Program Committee Representative and **Bill Welch** has been elected to replace Chris. **Jeff Garvin** has been elected to replace me as Treasurer. **Sue Mulrone**y retired as Chair of the Student Awards Committee Representative and **Ed Inscho** has been appointed to replace her. **Pam Carmines** retired as the Renal Section Committee on Committees Representative and was replaced by **Roger O'Neil**. Chris, Sue, and Pam have done outstanding jobs during the past 2-3 years and we want to thank them for all their time and hard work. They have contributed greatly towards the success of the meeting over the past 2-3 years.

We want to thank Jeff Sands who has served as Renal Section Chair during the past 3 years. He has contributed a great deal to the Society. It is a great privilege to follow him as Chair of the Renal Section of APS.

*Susan M. Wall*

Chair, APS Renal Section

### 2003 RENAL DINNER

The 2003 Renal Dinner will take place on Monday, April 14, 2003, at Ulysses S. Grant Hotel, 326 Broadway, San Diego, CA. This year's post-dinner program will feature the presentations of the Abbott/Berliner Award, the AstraZeneca Young Investigator Award, and the Aventis Pharmaceuticals Excellence in Renal Research Awards.

We are sure you will want to attend the dinner to enjoy the great food, but also to see old friends and make new ones. **To order your tickets, please send a check (in U.S. dollars) made out to: "APS Renal Section" and a self-addressed stamped envelope to: Jeff Garvin, Division of Hypertension and Vascular Research, E&R 7126, Henry Ford Hospital, 2799 West Grand Blvd., Detroit, MI 48202, U.S.A.** Tickets are available now. The price is \$50 each postmarked before March 24, 2003 and \$25 each for students and post-doctoral fellows. After that, tickets increase to \$60 if available (still \$25 for students and post-docs).

## WHAT'S AHEAD AT EB 2003 IN SAN DIEGO

The Program Committee reports that the Renal Section achieved great success in setting the program for EB 2003. Six of the symposia submitted by the Renal Section were approved: one as a workshop, two as cross sectional sponsored symposia and three Renal Section symposia. The Renal Section will also sponsor the Gottshalk Distinguished Lectureship and the AstraZeneca Young Investigator Lecture. Two other featured topics derived from submitted abstracts were also approved. We would like to thank the membership for organizing new and exciting topics for symposia. Ideas for EB 2004 are welcomed from any Renal Section member. Information about submission of proposed symposia is available on the APS homepage.

### Workshop

Frontiers of Intravital Microscopy (**M.S. Goligorsky**) Friday, April 11

### Cross Sectional Symposia

AT-1 and AT-2 receptors: cellular actions?  
(**C. Sumners, M. Hay**) Tuesday, April 15

Peroxisome proliferator-activated receptors (PPARS)  
(**C. Sigmond, Y. Guan**) Saturday, April 12

### Renal Section Symposia

Molecular Regulation of nitric oxide synthase activity  
(**J. Garvin, J. Pollock**) Saturday, April 12

Role of the Transcription Factor, TonEBP/NFAT5  
(**M. Burg, J. Handler**) Sunday, April 13

New Roles for Ammonia in renal ion transport  
(**I.D. Weiner, L.L. Hamm**) Tuesday, April 15

Gottshalk Distinguished Lecture (**W. Arendshorst**) Saturday, April 12

Young Investigator Lecture (**J. Miner**) Monday, April 14

Other program items of interest to the membership include a symposium on Cardiovascular and Renal dysfunction in Genetically Manipulated Organisms, the Starling lecture by **Fred Luft** on Mechanisms of Hypertension and a session on Translational Physiology focusing on Renal and Cardiovascular physiology.

Our ability to continue this level of contribution to programming is dependent on the number of abstracts submitted by our membership—so let's see everything you've got for 2003 (i.e. LOTS OF ABSTRACTS) !!!!! Remember, when you submit your abstract, be sure to select topic categories that are programmed by the Renal Section. See you in San Diego!

*Matt Breyer and Bill Welch*

Program Committee Representatives

## ***AJP-Renal*: NEWS FROM THE EDITOR**

AJP-Renal is doing great, but we can still do better with your help!

It has been one year since the current team of associate editors--Drs. **Sharon Anderson, Pam Carmines, Douglas Eaton, Tom Kleyman, and Susan Wall**--and I took the helm of the American Journal of Physiology-Renal Physiology. Our goal was to make the best even better. With your help, we believe that AJP-Renal is doing better than ever. We are very pleased that original manuscript submissions to AJP-Renal are up 20% during the first half of 2002. The mean time from manuscript submission to initial decision is down to 28 days, thanks to the hard work and effort of our reviewers, and we suspect that the median time is even shorter than 28 days. We are happy to report that AJP-Renal's 2001 ISI Impact Factor is up to 4.523. This ranks third among all renal journals and is only slightly below the Impact Factor of the second place journal. While the true scientific value of the ISI Impact Factor is dubious, we recognize the importance of this Impact Factor to many APS members located in Europe and Asia, and even to some in the US.

Given this success, how can we improve AJP-Renal? The Associate Editors and I love hard work, and we would be delighted to see AJP-Renal's submissions increase even more. One area where we have seen relatively few submissions is in translational research, despite the ongoing call for papers in this area. Translational Physiology is an area of research that bridges the gap between basic physiology and patient care. Papers in this field may transfer clinical insights into hypotheses that can be tested and validated in the basic research laboratory, or they may transfer knowledge gained from basic research to human physiology or even to improved methods of treating or preventing disease. Some excellent reviews on translational research topics have appeared in AJP-Renal recently, such as Dr. Eddy's review on Plasminogen activator inhibitor-1 and the kidney, and Drs. Whiteside and Dlugosz's review on Mesangial cell protein kinase C isozyme activation in the diabetic milieu, and others will appear in the near future. We encourage you and your colleagues to submit your best translational research work to AJP-Renal. We will strive to provide a timely and rigorous, but fair and collegial review process for these (and all other types of) papers.

We would like to shorten the time from submission to initial decision even more. APS Central permits us to solicit reviewers and give them access to papers with virtually no down-time. However, APS Central cannot alter the time it takes for a reviewer to render a thoughtful review of a manuscript. We can only shorten the review time by asking that potential reviewers respond promptly to requests to review papers and by asking that reviewers do their best to review manuscripts promptly.

We believe that AJP-Renal's Impact Factor can increase even further. We have seen a steady increase in AJP-Renal's Impact Factor by publishing the best original papers and reviews. We will continue to do so, as long as you continue to submit your best work to AJP-Renal and continue to contribute well-written, state-of-the-art reviews. We have always encouraged authors to cite all appropriate literature. The advent of Articles in PresS allows authors access to the newest findings in Renal Physiology, and we encourage authors to cite these papers, thereby ensuring that their manuscript includes the most current findings.

The Associate Editors and I are extremely pleased with the success that AJP-Renal has enjoyed during the past year. Our goal remains making AJP-Renal THE home for the best papers in Renal Physiology, defined in its broadest sense. We encourage you and your colleagues to always submit your best work to AJP-Renal. We look forward to working with each of you during the coming years to continue making the best renal physiology journal even better.

*Jeff M. Sands*

Editor-in-Chief, AJP-Renal

## THE 2002 STUDENT AND FELLOW AWARDS:

The Aventis Pharma Awards for Excellence in Renal Research are presented each year to outstanding presentations by students and post-doctoral fellows at the Experimental Biology meeting. The awardees were selected from a pool of 5 student and 6 post-doctoral finalists, who were judged on their presentations at the meeting.

There were three awardees in the student category this year. The First Place Award was presented to **Keith DiPetrillo** for his work, "Tumor necrosis factor stimulates Na uptake in distal tubule cells through sphingomyelinase activation." Mr. DiPetrillo's mentor is **Dr. Frank Gesek** at Dartmouth University School of Medicine. Second Place went to **Qi Che**, who presented work on, "Afferent arteriolar  $[Ca^{2+}]_i$  responses to angiotensin II involve EGF receptor tyrosine kinase-dependent  $Ca^{2+}$  influx." Ms. Che's mentor is **Dr. Pamela Carmines**, at the University of Nebraska Medical Center. Finally, **Shao-Ling Zhang** was recognized with the Third Place Award for her presentation entitled, "Insulin inhibits dexamethasone effect on angiotensin gene expression and induction of hypertrophy in kidney proximal tubular cells in high glucose." Ms. Zhang works under the direction of **Dr. John Chang** at the University of Montreal.



There were also three awardees in the post-doctoral division. The First Place Awardee was **Dr. Rong Ma** for his work, "Protein kinase Ca mediates activation of store-operated calcium channels (SOC) in cultured human mesangial cells." Dr. Ma was sponsored by **Dr. Steven Sansom** at the University of Nebraska Medical Center. Second Place Award was presented to **Dr Patrick Kudlacek** for his work entitled, "Role of hSlo beta subunits in cGMP-kinase mediation of mesangial BKCa channel." Dr. Kudlacek also works under the direction of **Dr. Steven Sansom** at the University of Nebraska Medical Center. **Dr. Xueying Zhao** was recognized with the Third Place Award for, "Soluble epoxide hydrolase regulates renal microvascular angiotensin II reactivity in hypertension." Dr Zhao works under the direction of **Dr. John Imig** at the Medical College of Georgia.

In addition, Renal Section Young Investigator Travel Awardees were also recognized at the meeting. This year's Awardees are listed below:

|                             |                       |
|-----------------------------|-----------------------|
| <b>Heddwen Brooks, PhD</b>  | University of Arizona |
| <b>Christine Maric, PhD</b> | Georgetown University |
| <b>Craig Woda, PhD</b>      | Mount Sinai           |

Congratulations to all the awardees for their outstanding contributions to kidney research. We look forward to following your careers in the future.

Finally, we'd like to thank the judges who contribute their time and expertise to evaluate the abstracts and presentations. These individuals support these young scientists and the renal section by their efforts both before and during meeting. The success of this years program is a tribute to their commitment. This year's judges were Co-Chair **Ed Inscho**, **Matt Breyer**, **Mike Romero**, **Heddwen Brooks**, and **John Imig**. We would especially like to thank **Dr. Sue Mulrone**y, who is stepping down as Chair of the Renal Awards Committee after a seven year payback period. Sue has made a monumental effort by serving as a judge, Co-chair and finally as the Awards committee chair. The renal section sincerely appreciates her important contribution.



*Ed Inscho*

Awards Chair

## **PROCTER & GAMBLE PROFESSIONAL OPPORTUNITY AWARD**

The Renal Section also sponsors P&G Awards for outstanding pre-doctoral abstracts. The recipient received \$500 and complimentary registration to EB2002. This year's Awardee was **Ahmed Elmarakby** for his abstract titled "Effects of enalapril, omapatrilat, and candesartan on the response to acute ET-1 infusion in male Sprague-Dawley rats." Mr. Elmarakby works under the direction of **Dr. David Pollock** at the Medical College of Georgia. Instructions for applying for this and the other Renal Section awards are provided in the EB 2003 call for abstracts booklet.



## **ATTENTION ASN MEETING ATTENDEES!**

We wanted to bring to your attention a symposium that we believe will be of wide interest to members of the APS Renal Section: "The role of Na/glucose cotransporters in glucose homeostasis" given by **Ernest M. Wright**. It will be held at the American Society of Nephrology Meeting, Saturday, November 2, 2002, 6:30 p.m., Philadelphia Marriott, Grand Ballroom Salon AB, Philadelphia, PA.

With the rapid rise in the incidence of diabetes observed over the past decade there is renewed interest in the prevention and treatment of this disease. Most of the research on glucose homeostasis has focused on the role of facilitated glucose transporters (GLUTs). Little attention has been given to the "other" glucose transporters, the sodium dependent glucose transporters (SGLTs). In this lecture, Ernest M. Wright, D. Sc., Professor of Physiology and Mellinkoff Chair in Medicine, U.C.L.A. School of Medicine, will review what is known about the physiology, molecular genetics and pathophysiology of the glucose transporters in SGLT gene family, and discuss their relevance in diabetes.

## **TREASURER'S REPORT**

I am pleased to report that the budget is doing very well thanks to the generous support of our colleagues in the Pharmaceutical Industry. We are most thankful to Abbott Laboratories for sponsoring the Abbott/Robert W. Berliner Award for Excellence in Renal Physiology and Aventis Pharmaceuticals for sponsoring the Excellence in Renal Research Award for students and post-doctoral fellows. We are very grateful to Astra Zeneca for sponsoring the Young Investigator Award. We also would like to thank Amgen, AstraZeneca, Merck, Parke-Davis, SmithKline Beecham, and Pfizer for making it possible for graduate students and post-doctoral fellows to attend the Renal Dinner at a reduced cost.

*Jeff Garvin*

Treasurer, APS Renal Section

## **CALL FOR NOMINATIONS FOR APS STANDING COMMITTEES**

Send your nominations to fill vacancies on various APS committees to **Roger O'Neil** (roger.g.oneil@uth.tmc.edu). You should also nominate yourself by sending the form, available on the APS website directly to APS headquarters. Nominations are usually due by January 10th of each year. The APS website contains descriptions of the functions of the APS standing committees and current committee members.

Please provide a short paragraph or list special expertise and previous activities that make this person (or yourself) highly qualified for a particular committee. A candidates chance of being nominated by the Committee on Committees is greatly enhanced by letters of support from 4-6 people for each nominee. For additional information or to submit a nomination, contact: The American Physiological Society, 9650 Rockville Pike, Bethesda, MD 20814-3991 (Phone 301-530-7165 or fax 301-571-8305).

## WILLIAM ARENDSHORST TO DELIVER GOTTSCHALK LECTURE AT EB '03

This year's Gottschalk Lecturer is **Dr. William Arendshorst**. Dr. Arendshorst has had a distinguished scientific career. His laboratory has made seminal contributions to our understanding of the mechanisms that control vascular tone in the renal microcirculation. He is now Professor of Cell and Molecular Physiology at the University of North Carolina at Chapel Hill. Bill is also a former fellow of **Dr. Carl Gottschalk**, for whom this award is named.



The Renal Section needs your nominations for the Gottschalk Distinguished Lecturer for the April, 2004 EB meeting. Previous lecturers have been **Peter Agre, Steve Hebert, Mark Knepper, Gabby Navar, Walter Boron, Dennis Brown, Heini Murer, Jim Schafer and Biff Forbush**. The Gottschalk Lecturer should be a trend-setter in the field of renal physiology. Ideally, the Lecturer should be a good speaker with a good story to tell. The nominee does not necessarily need to be an American or an APS member. To make a nomination, please complete the form at the end of this newsletter, or otherwise provide all the necessary information, and **send it to Susan Wall (Susan.M.Wall@uth.tmc.edu) by April 30, 2003.**

## REQUEST FOR NOMINATIONS FOR THE 2004 YOUNG INVESTIGATOR AWARD

The purpose of this award is to recognize an outstanding young investigator working in any area of renal physiology. Nominees for 2004 must be less than 41 years old as of April 1, 2004 or less than 15 years beyond receipt of their first doctoral degree. Research qualifying for consideration for this award would include any area of renal physiology, pathophysiology, or hypertension. Evidence that a nominee is working in renal physiology would be publications by the nominee in the *American Journal of Physiology: Renal Physiology* or similar journals during the preceding 4 years.

The deadline for nominations for the 2004 Young Investigator Award recipient is April 1, 2003. Once an individual is nominated, they will continue to be considered for subsequent years until they are no longer eligible for this award. However, for later consideration, submission of an updated CV would be helpful. **To nominate a candidate, please submit the candidate's CV, a nomination letter, and an optional seconding letter to:**

Jeff Garvin  
Division of Hypertension and Vascular Research  
E&R 7126  
Henry Ford Hospital  
2799 West Grand Blvd.  
Detroit, MI 48202 U.S.A.

For more information I can be contacted by phone at 313-916-2048, by facsimile at 313-916-1479 or by e-mail at [jgarvin1@hfhs.org](mailto:jgarvin1@hfhs.org)

## RECTOR GIVEN 2002 BERLINER/ABBOTT AWARD

The Renal Section was proud to award this year's Robert W. Berliner Award for Excellence in Renal Physiology, sponsored by Abbott Laboratories, to Dr. Floyd Rector of the University of California at San Francisco. This award is given annually to a senior renal physiologist based on his or her lifetime contribution to the field of renal physiology. Dr. Rector has published many seminal papers in renal physiology, particularly in the areas of acid-base physiology and the urinary concentrating mechanism. Dr. Rector has also made important contributions as a clinical investigator by extending his basic research findings to understanding renal pathophysiology in people. Among the other honors that Dr. Rector has received are the Homer Smith Award from the ASN (1982) and the A.N. Richards Award from the ISN (2001). Dr. Rector's award was presented at the Renal Dinner on April 23, 2002, during the EB 2002 meeting in New Orleans, LA.



The Renal Section needs your nominations for the Berliner Award for the April, 2003 meeting. To make a nomination, **please send a nominating letter and a copy of the nominee's CV to Susan Wall** (Susan.M.Wall@uth.tmc.edu) by November 1, 2002. The APS Renal Section's Berliner/Abbott Award Committee, a subcommittee of the Renal Section Steering Committee, included: Susan Wall (Renal Section Chair); Ed Inscho (Renal Section Student Awards Chair); Glenn Reinhart (Abbott Laboratories Representative); and Jeff Sands (Editor, AJP-Renal).

Previous winners of the Berliner/Abbott Award:

|                         |                              |
|-------------------------|------------------------------|
| 1993 – Carl Gottschalk  | 1998 – Bodil Schmidt-Nielsen |
| 1994 – Gerhard Giebisch | 1999 – Erich Windhager       |
| 1995 – Heinz Valtin     | 2000 – Thomas Andreoli       |
| 1996 – Maurice Burg     | 2001 – Joseph Handler        |
| 1997 – Franklyn Knox    | 2002 – Floyd Rector          |

### **Renal Section Steering Committee:**

Chair: **Susan Wall**, 703-500-6868, susan.m.wall@uth.tmc.edu

Treasurer: **Jeff Garvin**, 313-916-2048, jgarvin1@hfhs.org

Secretary/Newsletter Editor: **David Pollock**, 706-721-8517, dpollock@mail.mcg.edu

Program Representatives: **Matt Breyer**, 615-343-9867, mathew.breyer@mcm.vanderbilt.edu

**Bill Welch**, 202-687-4082, welchw@georgetown.edu

### **Ex-officio:**

Awards Committee, Chair: **Ed Inscho**, 706-721-5615, einscho@mail.mcg.edu

Industry Liaison: **Peter Morsing**, 46-31-7762884, peter.morsing@astrazeneca.com

Committee on Committees Rep.: **Roger O'Neil**, 703-500-6316, roger.g.oneil@uth.tmc.edu