



The American Physiological Society

Fall 2003 Renal Section Newsletter

A MESSAGE FROM YOUR RENAL SECTION CHAIR:

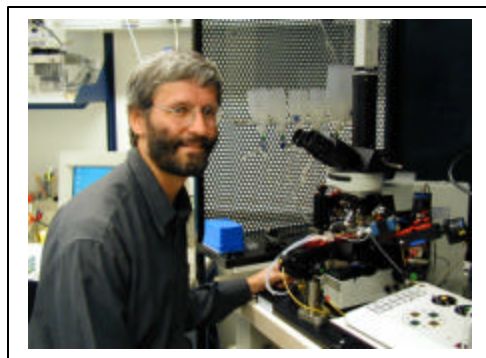
We hope to see everyone at the EB 2004 meeting (April 17-21, in Washington DC). It should be an exciting scientific program, particularly since it will be a 7-society meeting. Remember to purchase your ticket to the Renal Dinner prior to the meeting (see information from Jeff Garvin elsewhere in this newsletter, or contact him at: jgarvin1@smtpgw.is.hfh.edu for information or tickets). The renal dinner will be held at the Old Ebbitt Grill on April 20.

The Renal Section Steering Committee has been doing an excellent job. **Jeffrey Garvin**, Ph.D. from Henry Ford Hospital is now serving as Treasurer. **David Pollock**, Ph.D. from the Medical College of Georgia is Secretary. Program Representatives include **Matthew Breyer**, M.D. from Vanderbilt and **Bill Welch** Ph.D. from Georgetown. The Awards Committee includes **Ed Inscho** Ph.D. From The Medical College of Georgia and **Heddwen Brooks**, Ph.D. from the University of Arizona. **Darwin Bell** Ph.D. from U.A.B. is Sage and **Gabriel Navar**, Ph.D. from Tulane is Senior Physiologist. Renal Section Representative for the Committee on Committees is **Roger O'Neil** Ph.D. from the University of Texas, Houston.

Susan M. Wall
Chair, APS Renal Section

THOMAS JENTSCH TO DELIVER THE GOTTSCHALK LECTURE AT EB '04

This year's Gottschalk Lecturer is **Thomas Jentsch**, M.D., Ph.D. Dr. Jentsch's laboratory has made seminal contributions in our understanding of potassium-chloride cotransporters, as well as chloride and potassium channels. Dr. Jentsch has studied the cell biology, the structure-function relationships, and the physiology of these transport proteins. His work has greatly expanded our understanding of the role of these transporters in human disease. He is now Professor of Molecular Neuropathology at the University of Hamburg.



The Renal Section needs your nominations for the Gottschalk Distinguished Lecturer for the April, 2006 EB meeting. Previous lecturers have been **Peter Agre**, **Steve Hebert**, **Mark Knepper**, **L. Gabriel Navar**, **Walter Boron**, **Dennis Brown**, **Heini Murer**, **Jim Schafer**, **Bliss Forbush III** and **William Arendshorst**. 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. Please send your nominations to **Susan Wall** (smwall@emory.edu) by **April 30, 2005**.

DON MARSH HONORED WITH THE 2003 BERLINER/ABBOTT AWARD

The Renal Section is proud to announce that this year's Robert W. Berliner Award for Excellence in Renal Physiology, sponsored by Abbott Laboratories, was given to **Don Marsh**, M.D. from Brown University. This award is given to a senior renal physiologist based on his or her lifetime contribution to the field of renal physiology. Dr. Marsh has published many seminal papers in renal physiology. His contributions include micropuncture studies and mathematical modeling of the renal medullary concentrating mechanism and renal blood flow and application of chaos theory to renal hemodynamics. Dr. Marsh's award was presented at the Renal Dinner on April 14, 2003, at the EB 2003 meeting in San Diego, CA.



The Renal Section needs your nominations for the Berliner Award for the April, 2004 meeting. To make a nomination, please send a nominating letter and a copy of the nominee's CV to **Susan Wall** (smwall@emory.edu) by **November 1, 2003**.

Previous winners of the Berliner/Abbott Award:

1993 – Carl Gottschalk	1997 – Franklyn Knox	2001 – Joseph Handler
1994 – Gerhard Giebisch	1998 – Bodil Schmidt-Nielsen	2002 – Floyd Rector
1995 – Heinz Valtin	1999 – Erich Windhager	2003 – Don Marsh
1996 – Maurice Burg	2000 – Thomas Andreoli	

2004 RENAL DINNER

The 2004 Renal Dinner will take place on Tuesday, April 20, 2003, at the Old Ebbitt Grill, Washington, D.C.. This year's post-dinner program will feature the presentations of the Abbott/Berliner Award, the AstraZeneca Young Investigator Award, and the Excellence in Renal Research Awards.

To order your tickets, please send a **check drawn on a U.S. bank 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. Those that can't draft a check on a U.S. bank should contact me via e-mail at "jgarvin1@hfhs.org" to make alternative arrangements.

The price is \$50 each postmarked before March 15, 2004 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 2004 IN WASHINGTON

The program for the Renal Section of the APS during the 2004 Experimental Biology meeting promises to be outstanding. Three section-sponsored symposia, two section-initiated cross-sectional sponsored symposia and 4 other oral sessions represent a strong program for renal physiologists. The Renal Section Program subcommittee wants to encourage the Renal Section members to support this outstanding program by submitting abstracts for the upcoming meeting. Currently, the APS assesses the number of symposia allowed for each section and group by the number of abstract submissions. The Renal Section submissions have grown by 29% over the last three years and we want to encourage all members to continue their high level of participation. In addition, we would like to see renal investigators who normally submit their new data to other meetings to focus on the APS/EB meeting. This meeting has undergone an exciting resurgence over the last several years and is now the premiere forum for novel renal physiology research. Please, let's all act now to preserve this exciting meeting for the future.

The Renal Section symposia approved for EB 2004 are:

1. Polycystic Kidney Disease: From Bench to Bedside, organized by **Arlene B. Chapman**.
2. Metalloproteinases and Diabetic Nephropathy, organized by **Suresh C. Tyagi**.
3. Claudin Expression and Function in the Kidney, organized by **Raymond Harris**.

Other Oral Sessions will include:

1. The Carl W. Gottschalk Distinguished Lecture, awarded to **Thomas Jentsch**.
2. The Astra Zeneca Young Investigator Award Lecture, presented by **John Imig**.
3. Two Featured Topic sessions that will be organized from the submitted abstracts.

The Cross-Sectional symposia of interest are:

1. The Heme-Heme Oxygenase-Carbon Monoxide System and the Control of Cardiovascular and Renal Function, organized by **Alberto Nasjletti** and **Nader Abraham**.
2. Intracellular Trafficking of Membrane Proteins in Renal Epithelia, organized by **Paul Welling**.

Other symposia of interest:

1. Arthur C. Guyton: The Man and His Science, organized by **Joey Granger**.
2. Comparative Regulation of Renal and Intestinal Protein Processing and Transport: From Molecules to Environment.
3. Epithelial Na and K Channels.
4. Inflammatory Mediators and Cardio-Renal Pathophysiology, organized by **Jennifer and David Pollock**.

In addition to these, there will also be opportunities to co-sponsor featured topics of interest, space and time permitting. Keep those abstracts coming!

Matt Breyer and Bill Welch
Program Committee Representatives

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

We are very pleased to announce that the Impact Factor for *AJP - Renal* has increased to 5.044, which is the second highest Impact Factor among all journals in the renal/urology category! While we are very happy about this news, we also recognize that Impact Factors must be interpreted with great care, as **Dr. Martin Frank** wrote in his editorial in *The Physiologist* and in the *Journal of the Medical Library Association*. Even though we believe that Impact Factors can be questionable measures of quality, we acknowledge the importance, rightly or wrongly, that some universities place on these numbers, and hence their potential importance to some members of the Renal Physiology community. Therefore, we are pleased with the increase in *AJP - Renal*'s Impact Factor. On the other hand, we want to reassure all authors that we never consider the potential effect of a paper on *AJP - Renal*'s Impact Factor at any time during the review process. Our goal remains simply to publish the best original Renal research and insightful review papers. We thank all *AJP - Renal* authors, reviewers, and readers who have contributed to the success of *AJP - Renal*, and we look forward to receiving your future submissions.

We also want to call your attention to the following special calls for papers:

1. Topic: Aldosterone and ENaC: From Genetics to Physiology Deadline for Submission: November 1, 2003. The American Journal of Physiology: Renal Physiology is looking for manuscripts to be submitted specifically relating to the physiology of epithelial Na channels (ENaCs) and the actions of the steroid hormone, aldosterone. We are especially encouraging manuscripts based on abstracts submitted to the APS Fall Conference entitled •Aldosterone and ENaC: From Genetics to Physiology• (see call for papers at <http://www.the-aps.org/meetings/aps/banff03>). Submitted papers should address the central theme of amiloride-sensitive Na⁺ channels, their regulation, and their involvement in normal and pathophysiological situations, with an emphasis on the role of aldosterone in regulating these processes. Manuscripts on the role of ENaC and aldosterone in controlling total body sodium balance, blood volume, mean blood pressure and the underlying causes of essential hypertension and related renal pathology are acceptable.

2. Topic: How Genes Influence Renal Function and Disease Deadline for Submission: December 1, 2003. The American Journal of Physiology: Renal Physiology is looking for manuscripts to be submitted specifically relating to how genetic differences and genomic technologies aid our understanding of renal physiology. We are especially encouraging manuscripts based on abstracts submitted to the APS Fall Conference entitled •Understanding Renal and Cardiovascular Function through Physiological Genomics• (see call for papers at www.the-aps.org/meetings/aps/augusta). Submitted papers should elucidate the mechanisms of genetic control of renal tubular and hemodynamic physiology and pathophysiology. Manuscripts on any system related to gene expression, proteomics, bioinformatics, functional consequences of gene deletion or insertion, genetic animal and cell system models, and applications to therapeutic targets are acceptable. All papers submitted to either special call for papers will receive expedited review. Please make sure they are labeled for the Special Call. Accepted manuscripts will be published under a distinct heading and will receive special attention and handling. Only those papers not requiring extensive revision will be published under this call. If you currently have a manuscript on this topic that has already been submitted and would like it to be included in the Special Call, please contact Dr. **Jeff Sands**, Editor in Chief. (Phone: 404-712-8844, Fax: 404- 727-3425, E-mail ajprenal@emory.edu).

Jeff M. Sands
Editor-in-Chief, *AJP-Renal*

THE 2003 STUDENT AND FELLOW AWARDS:

The Aventis Pharma Awards for Excellence in Renal Research are presented each year for outstanding presentations by students and post-doctoral fellows at the Experimental Biology meeting. The awardees were selected from a pool of student and 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 **Wendell J. Lu** for his work, "*PPAR gamma ligands activate Na⁺ absorption by the inner medullary collecting duct.*" Mr. Lu's mentor is Dr. **Matthew Breyer** at Vanderbilt University Medical Center. Second Place was awarded to two deserving candidates. One award went to **Carie S. Facemire**, for her presentation entitled, "*Norepinephrine stimulates voltage-dependent and independent calcium entry pathways in renal resistance vessels: Possible role of short transient receptor potential channels.*" Ms. Facemire's mentor is Dr. **William Arendshorst**, at the University of North Carolina at Chapel Hill. A second award went to, **Ahmed A Elmarakby** who presented his work, "*Enalapril attenuates endothelin-1 induced hypertension via increased kinin survival.*" Mr. Elmarakby works under the direction of Dr. **David Pollock** at the Medical College of Georgia.



Predocutorial winners of the Aventis Pharma Awards for Excellence in Renal Research attending the 2003 Renal Dinner in San Diego, CA. From left to right are Ed Inscho (Awards Committee Chair), Carie S. Facemire (Second place winner), Ahmed A. Elmarakby (Second place winner), Wendell J. Lu (First place winner), and Susan Wall (Renal Section Chair).

There were also two awardees in the post-doctoral division. The First Place Awardee was Dr. **Pernille Hansen** for her paper describing the, "*Vasoconstrictor mechanisms of adenosine in isolated perfused afferent arterioles of the mouse.*" Dr. Hansen was sponsored by Dr. **Jurgen Schnermann** at the NIH/NIDDK. The Second Place Award was presented to Dr. **Jing Lu** for her work entitled "*The effect of mutations of K559 and K562, within the KMIK motif of TM5, on the DIDS sensitivity of the electrogenic Na/HCO₃ cotransporter from human kidney (hNBCe1-A)*" Dr. Lu works under the direction of Dr. **Walter F. Boron** at the Department of Cellular and Molecular Physiology at Yale University.



Postdoctoral winners of the Aventis Pharma Awards for Excellence in Renal Research attending the 2003 Renal Dinner in San Diego, CA. From left to right are Heddwen Brooks (Awards Committee Co-Chair), Pernille Hansen (First place winner), Edward Inscho (Awards Committee Chair) Jing Lu (Second place winner) and Susan Wall (Renal Section Chair).

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 the meeting. The success of this year's program is a tribute to their commitment. This year's judges were Co-Chair **Heddwen Brooks**, PhD, **Magdalena Alonso-Galacia**, PhD, **Christine Maric**, PhD, **Janos Peti-Peterdi**, PhD, **Steven Sansom**, PhD.

Finally, the Renal Section and the Renal Awards Committee would like to do whatever is necessary to enhance interest and participation in the activities and programs sponsored by the section. Along that line we are working hard to increase the number of young students and investigators in the awards program. Therefore, in the coming year, we are inviting students and postdoctoral fellows to submit their first author, kidney-related abstracts to the Renal Awards Program, regardless of the Programming topic to which the abstract was submitted. It is hoped that this will increase participation of trainees and their sponsors in the Renal Section Awards program while insuring that the research findings are programmed in the section that most benefits the investigator. We remind all Renal Section members to encourage their students and postdoctoral fellows to apply and participate in the Renal Section Awards Program. Instructions for applying for all Renal Section awards are provided in the EB 2004 call for abstracts booklet and through the APS Renal Section Website.

Ed Inscho
Awards Chair

RENAL SECTION RESEARCH RECOGNITION AWARDS: Call for Applications (Formerly Renal Section Young Investigator Travel Awards)

The Renal Section of the APS is sponsoring Renal Research Travel Awards (\$500) for recognition of meritorious research by young investigators participating in EB2004. The applicants must be junior faculty (no higher than Assistant Professor), and an author on an abstract submitted to the meeting. Post-doctoral fellows are not eligible for this award. The Renal Awards Committee will select the recipients, with notification by February 15, 2004. Investigators can apply or be nominated by another Renal Section member. Applications and abstracts can be sent to Dr. **Ed Inscho**, Medical College of Georgia, Department of Physiology CL-3140, 1120 15th Street, Augusta, GA, 30912-3000, FAX (706) 721-7299, or electronically to einscho@mail.mcg.edu. Deadline for submission is December 31, 2004.



2003 Renal Section Travel Award winners. From left to right are Heddwen Brooks (Awards Committee Co-Chair), Janos Peti-Peterdi, Hantz Hercule and Susan Wall (Renal Section 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 EB2003. This years Awardee was **Wendell J. Lu** from Vanderbilt University Medical Center.

NEWS FROM THE APS LIAISON WITH INDUSTRY COMMITTEE

The LWIC is sponsoring a Workshop entitled "High Content Biology: Multiplexing in Cell Physiology" at EB2004 on Monday, April 19 from 3:15-5:15 pm. This workshop will describe novel methods for simultaneous analysis of multiple endpoints in cells and biochemically. The topics of cell signaling, protein translocation, protein phosphorylation cascade, GPCR signaling as well as genomic mutational analysis will be covered. Look for the full program in the Spring.

The **Novel Disease Model Award** will be granted to a graduate student and a postdoctoral fellow who submit the best abstracts at EB2004 that describe a novel disease model. The model can be in vitro or in vivo but should clearly emphasize the potential utility of the system for future research related to a disease. The award is \$500 for the graduate student and \$800 for the postdoctoral fellow and is sponsored by the LWIC. See the call for abstracts this Fall for application details and in the Spring newsletter.

You're invited! Come meet and eat with your fellow physiologists who are working in the corporate sector. The **4th Annual Liaison With Industry Committee Mixer** is on at EB2004. Look for details in the Spring newsletter.

Peter Morsing
Renal Section Representative
APS Liaison with Industry Committee

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 we are very grateful to Astra Zeneca for sponsoring the Young Investigator Award. We also would like to thank AstraZeneca, 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. However, a number of past corporate sponsors did not continue their support of the Renal Section in 2003. As of September 1, 2003 these included Amgen, Proctor and Gamble and Aventis Pharmaceuticals. The loss of Aventis' support for the Excellence in Renal Research was particularly hard-felt. We are making every effort to re-establish the support these companies have provided in the past.

Jeff Garvin
Treasurer, APS Renal Section



For those of you who just can't avoid typos and misspellings in your emails, take heart:

Acccdrnig to a rscheearch at Cmabrigde Uinervtisy, it deosn't mttae in waht oredr the ltteers in a wrod are, the olny iprmoentn tihng is taht the frist and lsat ltteer be at the rghit pclae. The rset can be a total mses and you can sitll raed it wouthit porbelm. Tihs is bcuseae the huamn mnid deos not raed ervey lteter by istlef, butthe wrod as a wlohe.

Amzanig huh?

CALL FOR NOMINATIONS FOR APS STANDING COMMITTEES

We are at that time again for nominations to APS Committees. We are always looking for good people to represent APS and the Renal Section. APS Committees most in need of Renal Section representation are listed below. A description of the committees, member qualifications, and nomination forms can be found at: <http://www.the-aps.org/committees>. Individuals can nominate themselves, or have others nominate them. Please note that the application process is greatly simplified with only one short nomination form and one short endorsement form, period! This abbreviated procedure was designed to encourage new nominations. The deadline for applying is 15 February 2004, but please get your nominations in early.

APS Committees needing new Renal Section representation (Nominations): Animal Care and Experimentation, Career Opportunities in Physiology, Communications, Education, Finance, International Physiology, Porter Physiology Development, Public Affairs, Publications, Women in Physiology

Roger O'Neil
APS Renal Section Representative
Committee on Committees

REQUEST FOR NOMINATIONS FOR THE 2005 YOUNG INVESTIGATOR AWARD

The purpose of this award is to recognize an outstanding young investigator working in any area of renal physiology. Nominees for 2005 must be less than 41 years old as of April 1, 2005 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 2005 Young Investigator Award recipient is April 1, 2004. In a change from the past, individuals must be nominated every year to continue to be considered. This change was implemented because it was unfair to past nominees to have their C.V.'s which could be 2-3 years old compared to those of new nominees that were up to date. To nominate a candidate, e-mail the candidate's CV, a nomination letter, and a seconding letter in **PDF format ONLY** to: jgarvin1@hfhs.org.

Jeff Garvin
Treasurer, APS Renal Section

Renal Section Steering Committee:

Chair: **Susan Wall**, 404-727-1748, smwall@emory.edu

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

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

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

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

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

Sage: **Darwin Bell**, 205 934-3806, pdbell@uab.edu

Senior Physiologists: **Gabby Navar**, 504 588-5251, navar@tulane.edu