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).

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

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 Wall
Chair, APS Renal Section

ARENDHORST TO DELIVER GOTTSCALK LECTURE AT EB ‘03

This year’s Gottschalk Lecturer is William J. Arendshorst, Ph.D. 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 Professor of Cell and Molecular Physiology at the University of North Carolina at Chapel Hill. It is particularly significant that Dr. Arendshorst is giving this lecture since he is also a former fellow of Dr. Carl Gottschalk, for whom this award is named. His lecture at EB’03 is on Saturday, April 12, 3:15 P.M., Room 4.

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. The Lecturer should be a good speaker with a good story to tell. The nominee does not have 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 (smwall@emory.edu) by April 30, 2003.
APS FALL CONFERENCE FOCUSED ON RENAL PHYSIOLOGY

Everyone is invited to participate in the 2003 APS Conference entitled “Understanding Renal and Cardiovascular Function through Physiological Genomics.” This meeting will take place at the Radisson Riverfront Hotel and Convention Center in Augusta, Georgia, October 1-4, 2003.

The goal of this meeting is to provide an opportunity to learn how the new technologies, tools and applications of genomics can be used by the physiologist to discover how genetic and environmental factors influence renal and cardiovascular function. The focus is on renal physiology so everyone in the renal section in particular is urged to attend.

This meeting will bring together scientists who are responsible for formation of the new discipline of physiological genomics. You say you do not work in this area? Why not come to the meeting and find out what is happening. You may be surprised how this area touches on virtually all aspects of renal research. This is why we need your attendance.

The program will combine presentations from acknowledged authorities in the field with presentations from young investigators to facilitate exchange of the very newest ideas in physiological genomics. There will be a strong emphasis on integrating classic physiology with developments in genomics research. Submitted abstracts will be the basis of several oral sessions and poster presentations. A special career session will have particular appeal to students, fellows and young scientists. Awards will also be given to selected students and fellows who submit abstracts.

For more information, e-mail the APS meetings office at meetings@the-aps.org or check out the APS web site at http://www.the-aps.org/meetings/aps/auga/index.htm. We are depending on your participation to make this meeting a success.

David Pollock
Conference Organizer

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.

To order your tickets, please send a check (drawn on a U.S. bank) 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. There are a limited number of tickets and they are going fast. If you reside outside the U.S., contact me via e-mail to make arrangements for tickets. 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). All requests for tickets must be RECEIVED before April 7th.

Jeff Garvin
Treasurer, APS Renal Section
DON MARSH NAMED 2002 BERLINER/ABBOTT AWARD RECIPIENT

The Renal Section is proud to announce that this year’s Robert W. Berliner Award for Excellence in Renal Physiology, sponsored by Abbott Laboratories, will be given to Donald J. 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. During his 40 year-long career, Dr. Marsh used a creative combination of hypothesis-driven mathematical modeling, systems analysis, and innovative experimental techniques to tackle important problems in renal physiology, including the mechanism of urine concentration, the regulation of renal hemodynamics, and the nonlinear dynamics of the tubuloglomerular feedback system. Dr. Marsh’s award will be 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 EB 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.

Winners of the Berliner/Abbott Award:

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

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). The Renal Section needs your nominations for the Berliner Award for the April, EB 2004 meeting.

2003 ASTRAZENECA YOUNG INVESTIGATOR AWARD

The 2003 AstraZeneca Young Investigator Award winner is Jeffrey Miner, Ph.D. Dr. Miner is from the Renal Division of Washington University School of Medicine in St. Louis. Dr. Miner’s lecture entitled “The Glomerular Podocyte” will be given at 8 a.m. on Monday, April 14th at Experimental Biology ’03 in San Diego.

Nominations for the 2004 AstraZeneca 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. Previous nominees will be considered each year until they are no longer eligible for this award. However, submission of an updated CV for past nominees would be helpful and is
encouraged. 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

Jeff Garvin  
Treasurer, APS Renal Section

NEW PROCEDURES FOR NOMINATIONS TO APS COMMITTEES

We have just completed the application process for nominating Renal Section members for APS committees. Starting this year, the application process has been greatly simplified with only one short nomination form and one short endorsement form, period! We hope this abbreviated procedure will continue to encourage new nominations in the future. The response this year was fairly positive with eight nominations from Renal Section members or from members who hold joint interests in the Renal Section. We would like to extend our thanks to each of the applicants. It is your support that makes the Renal Section a success.

The APS Committee on Committees will meet at EB 2003 to discuss the candidates from all sections and make final appointment recommendations to the APS Council. Thanks to the interests of our members, the Renal Section should continue to have excellent representation on key committees. Please consider nominating yourself for a committee. Log onto the APS web site to see descriptions and functions of APS standing committees as well as instruction for making nominations.

Roger O’Neil  
Renal Section Representative  
APS Committee on Committees

TREASURER’S REPORT

The budget news is mixed. On one hand 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 continued sponsorship of the Abbott/Robert W. Berliner Award for Excellence in Renal Physiology and to AstraZeneca for sponsoring the AstraZeneca Young Investigator Award. We also would like to thank AstraZeneca, GlaxoSmithKline and Pfizer for making it possible for graduate students and post-doctoral fellows to attend the Renal Dinner at a reduced cost. Both Pfizer and GlaxoSmithKline responded positively to my request to significantly increase their support this year. On the other hand, as of March 7th I had not received responses from Proctor and Gamble, Aventis or Amgen.

Jeff Garvin  
Treasurer, APS Renal Section
EB 2003 HIGHLIGHTS

The Renal Section Program Committee has organized three oral sessions and seven poster sessions from the submitted abstracts. In addition, we were able to participate in the programming of six symposia and a workshop.

Oral Sessions:
“Renal Eicosanoids”
Saturday April 12, 8:00-10:00 A.M., Room 8
“Hormonal Control of Renal Arteriolar Tone”
Monday, April 14, 3:15 – 5:15 P.M., Room 5
“Moving Nutrient and Mediators In and Out of Cells”
Saturday, April 12, 3:15 - 5:15 P.M. Room 5

Symposia:
“Molecular Regulation of Nitric Oxide Synthase Activity”
Saturday, April 12, 10:30 A.M. – 12:30 P.M., Room 8.
The Carl Gottschalk Distinguished Lecture, William J. Arendshorst, Ph.D.
Saturday, April 12, 3:15 P.M., Room 4.
“Role of the transcription factor, TonEBP/NFAT 5”
Sunday, April 13 at 10:30 A.M. – 12:30 P.M., Room 9.
“The Glomerular Podocyte”, The Young Investigator Award Symposium
Monday, April 14 at 8:00 – 10:00 A.M., Room 10.
“New Roles for Ammonia in Renal Ion Transport”
Tuesday, April 15 at 8:00 – 10:00 A.M., Room 8.
“AT-1 and AT-2 Receptors: Cellular Action”
Tuesday, April 15 at 8:00 – 10:00 A.M. in Room 9.

Workshop
“Frontiers of Intravital Microscopy: Crossroads of Physiology and Pathology”
Friday, April 11 at 1:00 – 3:00 P.M. in Room 5.

Other symposia of interest to Renal Section members:
“Physiology in Medicine: Renal and Cardiovascular Physiology”
Sunday, April 13 at 3:15 – 5:15 P.M., Room 6B.
“The Renin-Angiotensin System and Development”
Sunday, April 13 at 10:30 A.M. – 12:30 P.M., Room 10.
“Epithelial Anion Channels: Structure Form and Function”
Tuesday, April 15 at 8:00 – 10:30 A.M., Room 11B.
“Insights on Renal Function and Blood Pressure Control From Genetically Manipulated Animals”
Saturday, April 12, 8:00 – 10:30 A.M.

This is an outstanding program for renal physiologists, which is the result of excellent input from the membership of the Renal Section. Please make every effort to attend these sessions. It is important that the Renal Section supports the sponsored sessions to assure our continued success in programming.

The Program committee is currently organizing symposia for both EB 2004 and for the IUPS in 2005. Please contact Bill Welch (welchw@georgetown.edu) or Matt Breyer (Matthew.Breyer@vanderbilt.edu) if you want to organize or learn more about symposia for these meetings.

William Welch and Matthew Breyer
Program Representatives
RENAL SECTION AWARDS

The Renal Section winner of the 2003 Proctor and Gamble Excellence in Research Award is Wendell J. Lu, for his abstract entitled, “PPARgamma ligands activate Na⁺ absorption by the inner medulla collecting duct.” Mr. Lu is a doctoral student Vanderbilt University, under the mentorship of Dr. Matthew Breyer.

The preliminary evaluation of abstracts submitted for the Aventis Pharmaceutical Excellence in Renal Research Awards has been completed. The Post-Doctoral finalists for the Aventis Pharmaceutical Excellence in Research Awards are: Sang Do Lee, Dongun Kim, Peilin Wei, Pernille Hansen and Jing Lu. The Pre-Doctoral finalists are: Carie Facemire, Wendell J. Lu, Ahmed A. Elmarakby and Laura Howard. The Finalists will be given a complimentary ticket to the Renal Dinner, where the winners will be announced. Congratulations to all the applicants, and we look forward to seeing their presentations at EB 2003! We will have the poster numbers and presentation times posted in the aisles each day of the meeting. We encourage everyone to drop by the presentations, and to come to the Renal Dinner to support these young investigators.

The Renal Section is also pleased to provide Young Investigator Travel Awards to Dr. Janos Peti-Peterdi (Univ. of Alabama at Birmingham) and Dr. Hantz Hercule (Texas Southern University). Congratulations to all of the finalists and award recipients!

The Renal Section is proud to have the opportunity to support and honor the careers of young investigators and trainees. To make this program successful, we encourage active participation by all eligible individuals in the awards programs. Mentors should encourage their students and postdocs to apply for these awards. In the current year, the number of eligible abstract presenters significantly outnumbered the number of award applicants. Accordingly, tell your neighbors and your friends that Renal Section Award program is an excellent opportunity to showcase your accomplishments and bring enhanced visibility to our young colleagues and young trainees.

Ed Inscho
Awards Chair

AJP-Renal: NEWS FROM THE EDITOR

AJP-Renal continues to do well. In 2002, submissions were up over 10% to 443 manuscripts. So far, 2003 submissions are paralleling 2002’s pace. AJP-Renal’s impact factor for 2001 increased to 4.523, which is the highest impact factor of any AJP journal and is the third highest of the 43 journals is the renal and urologic field. The time from submission to first decision is still averaging around 28 days. The first installment of the legacy series for AJP-Renal appeared last fall, with the second installment due this summer. The invited reviews on translational research have been appearing on a regular basis, and we plan to continue to include translational topics over the coming years. All of the invited reviews have been well received and provide a valuable contribution to AJP-Renal.

With your help, the Associate Editors and I are committed to publishing the very best original papers reporting major advances in all aspects of renal physiology, including renal cell and molecular biology, integrative physiology, renal hemodynamics, mechanisms of hypertension, transport physiology, physiological genomics, and translational research. Our goal is to make AJP-Renal the home for the best papers in renal physiology. We encourage you to submit your best work to AJP-Renal and ask that you encourage your colleagues to do the same. We look forward to working with each of you during the coming years to make the best renal physiology journal even better.

Jeff Sands
Editor-in-Chief, AJP-Renal
XXXV INTERNATIONAL CONGRESS OF PHYSIOLOGICAL SCIENCES

Mark your calendars now! You are cordially invited to attend the 35th Congress of the International Union of Physiological Sciences (IUPS) in San Diego, CA., March 31 - April 5, 2005. IUPS 2005 is being organized by the six member societies of the U.S. National Committee of the IUPS, the American Physiological Society, the Society for Neuroscience, the Microcirculatory Society, the Society of General Physiologists, the Biomedical Engineering Society, and the Society for Integrative and Comparative Biology, under the auspices of the U.S. National Academy of Sciences.

Throughout the 20th Century, the IUPS Congress has served as an international forum to bring together physiologists from around the world to disseminate new knowledge, renew old relationships, and forge new relationships among physiologists from distant lands. The Congress program will focus on the vibrant new role that physiology is playing in relating the genome to complex functions of many life forms. It will provide us with an opportunity to go “from genomes to functions.” It will also provide an opportunity to focus on physiology’s role in translating genomic discoveries into clinical application.

Please join us in one of America’s great cities for an exciting and educational week with your colleagues from around the world.

INVITATION TO SYMPOSIUM ON RENAL SYSTEM BIOLOGY

All members of the Renal and Fluid and Electrolyte Sections are invited to attend a special one-day symposium on Renal System Biology to be held on April 11 in the Santa Rosa Room of the Gaslamp Hilton Hotel. The symposium is being held to celebrate the research legacy of Donald J. Marsh. It was organized by Don’s students and research collaborators, and is supported by NIDDK, Amgen, The Institute of IBC & ICC, and Brown University School of Medicine. The program is below.

The organizers have arranged to have a free buffet lunch for the attendees (125 Max). If you plan to attend all or part of the symposium and would like to join us for lunch, please respond ASAP by e-mail to: leon.moore@sunysb.edu and you will be sent a lunch ticket.

The Gaslamp Hilton is located just close to the convention center, just across Harbor Drive.
Nephrons and Numbers: The Past and Future of Renal Systems Biology
Friday, April 11, 2003  Gaslamp Hilton Hotel, Santa Rosa Room, San Diego, California
Organizers: Leon C. Moore, Will Cupples & Niels-Henrik Holstein-Rathlou

Leon C. Moore, SUNY, Stony Brook, NY

Session 1.  Epithelial Transport and the Mechanism of Urine Concentration.
Moderators: Tony Wexler and Joe Chou
S. Randall Thomas, INSERM, Paris, France
10:00 am:  Intra-segmental Heterogeneity in Henle’s Loop.
William Dantzler, University of Arizona, Tucson, AZ
10:20 am:  Insights into the Concentrating Mechanism from KO Mice.
Joe Chou, NIH, Bethesda, MD

10:40 am  Coffee Break: 20 min

11:00 am:  New Numerical Methods for the Next Generation of Countercurrent Models.
Anita Layton, University of North Carolina, Chapel Hill, NC
11:20 am:  cDNA Microarrays and Proteomics in the Investigation of Renal Actions of Vasopressin
Mark Knepper, NIH, Bethesda, MD
11:40 am:  Insights from Mathematical Models of Nephron Transport.
Alan Weinstein, Cornell University, NY, NY

Buffet Lunch: Noon -1:00 pm  Terrace of Gaslamp Hilton

Moderators: Leon Moore and Niels Holstein-Rathlou
1:00 pm:  Genetic Models of Autoregulatory Failure.
Will Cupples, St. Catherine Hospital, McGill University, Montreal, Canada
1:25 pm:  Mechanisms of Pressure Natriuresis in Hypertension.
Daniel Yip, University of South Florida, Tampa, FL
1:45 pm:  Systolic Blood Pressure and the Myogenic Response.
Roger Loutzenhiser, SMRC, University of Calgary, Alberta, Canada
2:05 pm:  Autoregulatory Dysfunction and Renal Injury in Hypertension.
Anil Bidani, VAMC, Loyola University, Chicago, IL
Ki Chon, SUNY, Stony Brook, NY

2:45-3:05 Coffee Break

Session 3.  Oscillations Everywhere: Tubuloglomerular Feedback and Nonlinear Dynamics
Moderators: Will Cupples and Daniel Yip
3:05 pm:  Nonlinear Dynamics of the Kidney in Health and Disease.
Niels Holstein-Rathlou, Panim Institute, Copenhagen, Denmark
3:30 pm:  The Potential Physiological Impact of TGF Limit Cycle Oscillations
Harold Layton, Duke University, Durham, NC
3:50 pm:  TGF, Epithelial Work, Renal Hypertrophy, and Diabetic Nephropathy
Scott Thomson, VAMC, UCSD, San Diego, CA
4:10 pm:  TAL Transport and TGF Signal Generation
Leon Moore, SUNY, Stony Brook, NY
4:30 pm:  TGF:  Insights and Issues from Studies in KO Mice
Jurgen Schnermann, NIH, Bethesda, MD
4:50 pm:  Reflections: Don Marsh