Greetings from the Chair,

A new year is already well under way and what a wondrous year it will be! Our society is celebrating its 125th Anniversary. I do not know about you, but for me it seems to be a very respectable age! For this occasion, APS hopes that all active members will be able to join in all the Anniversary festivities this April in San Diego. EB2012 should be well attended as several foreign societies have been invited to join American Physiologists for this very special occasion. General anniversary festivities are organized for the beginning and ending of the meeting, as well as, special anniversary events throughout the course of the meeting.

The Cell and Molecular Physiology section has several exciting events planned. The Hugh Davson Distinguished lectureship Award will be presented to Dr. Mark Knepper, MD, PhD, Chief, Laboratory of Kidney & Electrolyte Metabolism, at the National Heart Lung and Blood Institute, NIH. We have organized a breakfast on Sunday morning for CaMPS trainees (see message from Jennifer Bomberger, our Trainee representative) that will be attended by Dr. Knepper, so the trainees will have a good opportunity to interact with our Distinguished Hugh Davson lecturer. A complete list of all the symposia and featured topics organized by our section can be found in this newsletter. Our society dinner on Monday night will be an opportunity for CaMPS members to celebrate and recognize the efforts and achievements of our students, post-doctoral fellows, and young investigators. A new addition this year is a door prize to one lucky attendee. Our after dinner “light” talk will be given by Dr. Kim Barrett, Professor of Medicine, University of California San Diego, and former Editor in Chief of the American Journal of Physiology Cell Physiology. Finally, congratulations to Roger Worrell (U Cinc) who was elected as our new Vice-Chair; and Sandrine Pierre (U Toledo) who was elected as the new Councilor for Awards. They will begin their terms after EB in San Diego.

April is approaching fast, so if you have not yet registered, please do so promptly and join us in San Diego for EB2012 and the 125th Anniversary of the American Physiological Society.

I look forward in seeing you at the meeting in San Diego.

Eric Delpire, Chair

AJP-Cell Physiology- Update from the Editor:

Paul A. Insel, Editor-in-Chief

It has been said that “the only constant is change”—a notion that applies to AJP-Cell. Our editorial team, Associate Editors (Karyn Esser, John Geibel, Michael Goligorsky, Sophie Lotersztajn, Alicia McDonough and Jason Yuan) and I have sought to improve the appeal and impact of AJP-Cell through a number of initiatives. These include: aiming to minimize review time by assigning reviewers, obtaining reviewers’ opinions and making decisions as quickly as possible (which is every author’s desire), redesigning features on the AJP-Cell web-site to increase the usefulness of the sites; (I encourage you to visit http://ajpcell.physiology.org), including termination of the assignment of articles to “Topic Categories” (especially since so many articles fit into multiple categories), and increasing efforts to supplement the reports of original research with Editorial Focus articles that highlight original studies, Reviews, Methods in Cell Physiology and Historical Perspectives articles as well as reviews organized around a Theme. A major change (instituted for all the AJP’s in January, 2012) has been the termination of the once monthly publication of individual print versions of AJP-Cell. Now, an electronic version of AJP-Cell is published every 2 weeks; a bundled print version of all the AJP’s is published once per month. The Associate Editors and I invite CaMPS members to propose topics and authors for Themes,
Reviews and Historical Perspectives. Please submit such proposals to me (inseloffice@ucsd.edu); the proposal should summarize the rationale and topics of the proposed Review or Theme series and indicate affiliation(s) of the organizer(s), potential contributors and titles of their articles and importantly, why the Theme/Review is well suited for AJP-Cell.

Our shared goal is for AJP-Cell to be at the forefront of cell physiology through the publication of original research, reviews, and other types of articles. Looking ahead, we plan to issue Calls for Papers in areas that we believe will expand the appeal of AJP-Cell. We welcome suggestions for ways to increase the journal’s impact and interest for readers. The Associate Editors and I are very grateful to CaMPS members who have submitted original research studies and for their assistance in reviewing manuscripts. We encourage all CaMPS members to submit manuscripts to AJP-Cell: the Associate Editors and I will do our best to provide rapid and helpful reviews.

EB 2012 PREVIEW:  

Cathy Fuller, senior programming officer

Hugh Davson Distinguished Lectureship, APS Cell and Molecular Physiology Section

Sunday, April 22nd, 2012; 10:30 AM, Ballroom 20A

Mark A. Knepper, M.D., Ph.D.
Laboratory of Kidney and Electrolyte Metabolism, NHLBI, NIH

After the interlude: Cell-level systems biology in the 21st century

Abstract. We will explore applying the systems biology paradigm to cell physiology. The discussion will use Sydney Brenner’s oft quoted comment about reductionism: “In one way, you could say all the genetic and molecular biological work of the last 60 years could be considered a long interlude...We have come full circle—back to the problems left behind unsolved. How does a wounded organism regenerate exactly the same structure it had before? How does the egg form the organism? ... In the next 25 years, we are going to have to teach biologists another language...I don’t know what it’s called yet; nobody knows...” Sydney Brenner

Biography. Dr. Knepper is a native of Toledo, OH. He graduated summa cum laude in Chemical Engineering at the Univ. Michigan-Ann Arbor in 1970. He then completed a PhD in Biomedical Engineering from Case Western Reserve University in 1975 for which he measured and modeled renal urea, Na⁺, Cl⁻ and water transport (a prelude of life to come). Mark earned his MD from CWRU in 1976 while also holding a research position in Biomedical Engineering. From 1976-78 he pursued an Internal Medicine residency and was board certified in Internal Medicine in 1980. In 1978 Mark joined the LKEM at NHLBI as a Staff fellow, then as a Medical Staff Fellow. He has been a Senior Investigator in the NIH Intermural program since 1984. Mark has published almost 400 peer-reviewed papers, mostly having to do with urea, Na⁺, Cl⁻ and water transport. He has been honored with the Carl W. Gottschalk Distinguished Lectureship (APS, 1996), the Homer Smith Award.
Dr. Knepper has won numerous other awards including distinguished alumnus, CWRU School of Medicine (2008) and an honorary doctorate from Aarhus University, Denmark (2009). Even though Mark has spent his career at the NIH, he has served on several NIH grant review study sections as well as internal NIH investigator and program review committees. Dr. Knepper’s most recent contributions to science and Physiology have been his proteomic approach to systems biology and physiology. Mark is a true molecular, cellular, tissue and organismal physiologist.

Call for Nominations: Hugh Davson Lectureship 2013
Send in your nominations to Bonnie Blazer Yost (bblazer@iupui.edu)

APS News - Special 125th Anniversary Events

APS 125th Anniversary at EB2012 - Help us Celebrate! Register for Opening and Closing events!
Saturday, April 21, 7:00 PM - following the Cannon Lecture by L. Gabriel Navar, Tulane University - APS will party on the North Embarcadero with The Mardells, food and drink, and games galore.

Wednesday, April 25, 6:00 PM - following the pm sessions including a lecture by Nobel Laureate Oliver Smithies – the party moves into the Marriott with food and drink, music and dancing to an APS member band – GI Distress! Plan on attending to help celebrate the Society’s founding in 1887!

Help the APS celebrate by contributing to a fund designed to make the forthcoming meeting a truly international event. The Society hopes to raise funds to bring outstanding scientists from around the world to San Diego for the celebration. In order to make that possible, the membership is invited to make a charitable contribution to the 125th Anniversary Fund.

CAMPS BANQUET – MON APRIL 23, 2012; 6:30-10:00 PM
WHERE: The FleetWood (http://thefleetwood.com/) 639 J Street San Diego; (619) 702-7700
WHEN: Monday, April 23, 2012; 6:30-10:00 PM
Mixer: 6:30 – 7:00p
Dinner, Awards, etc: 7:00 – 9:00 (9:00-?? = social time)
After Dinner Speaker: Dr. Kim Barrett, Dean of Graduate Studies, Univ CA, San Diego

THE COST At EB / door
Members / non-member guest $60
Postdoc / fellow $40
Student $25

Since we are charged PER PERSON, they need an accurate head count by the April 4, 2012. Tickets will NOT be sold onsite, but should be available at the APS office during EB! Tickets are sold on a first-come-first-served basis.

Questions: Michael Romero (CaMPS Banquet Organizer): romero.michael@mayo.edu
Catherine Ohnmacht (APS Sections Administrator): cohnmacht@the-aps.org

Symposia: Cross Sectional Symposia

Essential Insights into Protein Interactions in Epithelia
Chair: Roger A. Fenton, Aarhus University
Wednesday, April 25th, 10:30 AM Room 27

CaMPS Symposia

Role of Novel WNK Signaling Pathways in the Regulation of Sodium Channels and Transporters
Chair: Hui Cai, Emory University
Sunday, April 22, 3:30-5:30 PM, Room 25B
Cellular CO$_2$, HCO$_3$-, and pH Sensing
Chair: Jeppe Praetorius, Aarhus University
Co-chair: Dennis Brown, Massachusetts General Hospital/Harvard Medical School
Monday, April 23rd, 3:30-5:30 PM, Room 26

Ion Channels as Macromolecular Complexes
Chair: William Coetzee, New York University
Co-chair: Mario Delmar, New York University
Monday, April 23rd, 8:00-10:00 AM, Room 27

Role of Ion Channels in Cell Migration
Chair: Scott O’Grady, University of Minnesota
Co-chair: Emmanuelle Brochiero, Université de Montréal
Tuesday, April 24th, 3:30-5:30 PM, Room 23

CaMPS Featured Topics

Ion Channels
Chair: Cathy Fuller, University of Alabama at Birmingham
Monday, April 23rd, 10:30 AM-12:30 PM, Room 25C

Ubiquitylation and Deubiquitylation of Ion Channels and Transporters
Chair: Kirk Hamilton, University of Otago
Co-Chair: Corina Balut, University of Pittsburgh
Invited Speaker: Dan Devor, University of Pittsburgh
Tuesday, April 24th, 10:30 AM-12:30 PM, Room 25C

(Abstract-Driven) Featured Topic
Chair: TBN / Tuesday, April 24th, 8:00-10:00 AM Room 25C

Featured Topics
1057-APS Ion channels
1058-APS Ubiquitylation and deubiquitylation of ion channels and transporters

Poster Topics
1059-APS Apoptosis and cell death
1060-APS ATPase-driven ion pumps
1061-APS Cell volume, osmoregulation, and water transport
1062-APS Cellular signaling: second messengers, extracellular matrix, cell-cell interactions, kinases
1063-APS Intracellular pH and acid-base transport
1064-APS Membrane domains, macromolecular complexes, trafficking and cell polarity
1065-APS Oxidative stress biology
1066-APS Stem cells and cell growth, development and differentiation
1068-APS Transporters: transmitters, nutrients, metabolites and drugs

As you can see, we have a full program for EB 2012! CaMPSs sessions are clustered from Sunday through Tuesday. However, there is a full day of sessions on Wednesday, including what promises to be an interesting cross-sectional symposium organized by Roger Fenton on “Essential Insights into Protein Interactions in Epithelia” that is scheduled for Wednesday morning. The San Diego meeting also represents the 125th Anniversary of the APS and several special events are planned to commemorate this momentous occasion. Further details will be forthcoming from APS but do plan to attend the entire meeting if possible. Lastly, it is time to start planning your abstracts for the meeting. The abstract site is currently open and accepting submissions – avoid the last minute rush!!

We look forward to seeing everyone in San Diego!

Cathy Fuller and Neil Bradbury, JPC representatives
CAMPS TRAINEE COMMITTEE UPDATE

Happy 2012, CaMPS Section Members!

This new year brings many exciting opportunities for trainees in the CaMPS section. As the trainee representative for the Cell and Molecular Physiology Section Steering Committee, I work to communicate trainee priorities, needs and concerns to the Steering committee and work with the Steering committee to promote the trainee agenda. Don’t hesitate to contact me with your comments and questions regarding career development or trainee-related issues within the CaMPS section.

I would like to take this chance to notify you and/or your trainees of several exciting opportunities and new developments for trainees in the CaMPS section.

1. Experimental Biology 2011 in sunny San Diego, CA on April 21-25, 2012!!

EB 2012 is now only several months away, so please keep in mind the following important deadlines: February 23, early bird registration and March 23, housing deadline. As the conference date approaches, please check out the EB website for the full program for the meeting (http://experimentalbiology.org). As always, the APS career development track hosts many informative sessions ranging from manuscript writing, to choosing a degree program, to conflict resolution and many more. In addition, the Trainee Advisory Committee (TAC) is also sponsoring a timely symposium geared toward establishing and maintaining a professional online presence, entitled “E-Media Tools for the Professional Scientist”. Details for all the above symposia can be found in the APS career development track in the EB 2012 program.

New for CaMPS trainees at EB 2012: the CaMPS Trainee Breakfast Data Digest with the Hugh Davson Distinguished Lectureship Awardee at 8am on Sunday April 22nd! Please sign-up to share your work with this year’s Hugh Davson awardee, Dr. Mark Knepper, at the CaMPS Trainee Breakfast Data Digest. Each trainee will have two minutes and one slide to publicize your work. This is a great way to share your work with a renowned physiologist while practicing your “elevator pitch” all at once! Please email me (jbomb@pitt.edu), to be signed up to participate.

Last, but definitely not least, please remember to purchase your ticket for the Cell Section dinner at EB 2012 (http://www.the-aps.org/mm/hp/Audiences/Sections/banquets). The section dinner is always a great time and fantastic opportunity to network with prominent physiologists in your field.

2. We need you!

If you are interested in having a voice in CaMPS trainee events and opportunities, consider participating on the Trainee Subcommittee. This is your chance to provide input on CaMPS section trainee events and participate in section activities. I encourage all trainees interested in playing a more active role in the section to please contact me.

3. Connect with us on-line! Visit the CaMPS section Facebook page (http://www.facebook.com/home.php#group.php?gid=214270420610). Email me (jbomb@pitt.edu) or send a friend request via Facebook to get connected. Another great way to stay updated on all CaMPS and TAC opportunities and activities is to join the section list-serves (http://www.the-aps.org/trainees). Please join us!

I hope to see you at EB 2012!

Best wishes,

Jennifer Bomberger, Ph.D. / CaMPS Trainee Representative (jbomb@pitt.edu)
University of Pittsburgh School of Medicine

Trainees, you are invited to the 2012 Meet the Nobel Laureate Reception!!

Mark your calendars for a wine and cheese reception honoring APS Trainees and Dr. Oliver Smithies, 2007 Recipient of the Nobel Prize in Physiology or Medicine and Weatherspoon Eminent Distinguished Professor, University of North Carolina at Chapel Hill.

Wednesday April 25, 2012, immediately following the APS Nobel Prize in Physiology or Medicine Lecture (lecture at 3:30 pm)
EB-2011 Awardees

Michelle N. Sullivan, Colorado State University
"Detection of Unitary TRPV4 Channel Activity in Primary Human Cerebral Artery Microvascular Endothelial Cells Using TIRF Microscopy" MN Sullivan, N Pitts, S Earley

Thuy Nguyen, Vanderbilt University
"X-ray structure-guided analysis of the VU591 binding site in ROMK" T. Nguyen, J. Sheehan, J. Meiler, and J.S. Denton

ROBERT GUNN STUDENT AWARDS

Tiana Curry-McCoy, PhD, Emory Univ.
"Alcohol induced alterations of alveolar macrophage TGFβ1 levels decrease epithelial barrier function" TV Curry-McCoy, DM Guidot, PC Joshi

Clintoria Richards Williams, PhD, Emory Univ.
"PPARγ Activation Attenuates Hyperglycemia-Induced Oxidative Stress by ↓ of NADPH Oxidases in Human Aortic Endothelial Cells" C Richards Williams, TC Murphy, RL Sutliff, CM Hart

RESEARCH RECOGNITION AWARDS (FELLOW)

Amrita Kumar, PhD; Physiology, Emory University
NEW INVESTIGATOR AWARD (JR. FACULTY)
CaMPS Dinner 2011 – **Zola** (Washington, DC)

**CaMPS – 2011**

*See you in San Diego!*
Several NIH institutes will report on their research and policy initiatives during EB 2012 in San Diego. "National Institutes of Health: Programs and Policies Update from Institutes" will be presented from 2-4 PM on Tuesday, April 24 in Room 1A of the San Diego Convention Center. Drs. Susan Shurin of the National Heart, Lung, and Blood Institute (NHLBI); Judith Greenberg of National Institute of General Medical Sciences (NIGMS); Richard Nakamura of the Center for Scientific Review (CSR); and Elizabeth Wilder of the Division of Program Coordination, Planning, and Strategic Initiatives (DPCPSI) will share the latest information about research programs and policy priorities.

The session is jointly sponsored by the American Physiological Society, American Association of Anatomists, American Society for Biochemistry and Molecular Biology, American Society for Investigative Pathology, American Society for Nutrition and the American Society for Pharmacology and Experimental Therapeutics. The session chairs are APS President-elect Susan Barman and APS Science Policy Chair John Chatham.

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Chair and Section Advisory Committee Representative

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