At the time of writing, the Fall semester is well underway and Thanksgiving is coming into view. As a section we have much to be thankful for and much to look forward to in the coming year. Particular thanks first of all to our outgoing officers: Jennifer Uno (secretary), Chaya Gopalan (Committee on Committees), Jeff Kingsbury (Physiologist in Industry Liaison) and Lynn Kam (Guyton Award Committee), who will be completing their service at the upcoming EB meeting. Thanks also to Mike Wyss for his excellent work as chair of the APS Education Committee.

Coming up in 2016 we have three opportunities to attend conferences on teaching and learning. In addition to our usual offerings at Experimental Biology in April, Barb Goodman is leading another summer Institute of Teaching and Learning (ITL), June 20-24 in Madison, WI. The ITL program has been tailored to address the professional development needs of both undergraduate faculty as well as health professions educators. There is a pre-conference workshop on the use of ultrasound to teach physiology; if anyone would like to reserve a place on the ultrasounds workshop please email me at jonathan.kibble@ucf.edu. Barb will be sending out information about venue and registration in the near future. In addition to these conferences, the UK Physiological Society’s annual meeting in Dublin, Ireland from July 29-31 is a joint meeting with APS and will have a significant teaching and learning component.

For those coming to Experimental Biology, please consider applying (or let your junior mentees know about) our Research Recognition awards (abstract-based) or New Investigator award (not abstract based). Check out our section webpage http://www.the-aps.org/mm/awards/sections/teach.aspx to see the criteria and to apply. One new project at EB will be an effort to improve networking among members interested in advancing their scholarship of teaching. We aim to have an additional face-to-face meeting to advance this agenda and will be sending more information about place and time as the conference approaches.

In the meantime, I wish you all a wonderful holiday season and look forward to meeting you in 2016.
Refresher Course: Keep Your Eye on the Ion. Refresher Course on Ionic Homeostasis and Systems Physiology
Date: Saturday, April 2, 2016, 8:00 am – 12:00 pm
Location: Convention Center RM 210 A

For EB2016, the refresher course topic is Integration of Cellular and Systems Physiology and entitled: Keep Your Eye On the Ion - A Refresher Course Ionic Homeostasis and Systems Physiology. We are thrilled to have secured a high-caliber panel of speakers that will cover a broad range of topics including ionic homeostasis/regulation and its role in 1) hypertension and sodium (Dr. John Osborn); 2) Renal disease and Potassium (Dr. Biff Palmer); 3) Acid-base Physiology and Potassium (Dr. L. Lee Hamm) and 4) Cardiac Ischemia: Ionic currents and the ECG (Dr. Richard Klabunde). This refresher course will certainly appeal to a broad audience of APS members and we look forward to continuing the outstanding refresher course tradition.

Organizers: David W. Rodenbaugh, Ph.D.
Karie Scrogin, Ph.D.

Physiology Majors Interest Group Networking Discussion

Monday April 4th from 3:30-5:30 (Room TBD)

Event hosted by P-MIG and the APS Education Office in partnership with APS Education Committee, Teaching Section, and Career Opportunities in Physiology Committee

There has been a recent growth and evolution of physiology as a stand-alone undergraduate major, and these programs are becoming the primary pathways for many students heading into medicine, physical therapy, and other allied health professions. Therefore in April of 2015 we formed a Physiology Majors Interest Group (P-MIG) with the goal of starting a national conversation, build a community of practice among undergraduate programs, and begin sharing of ideas among peer programs. This meeting will be a moderated discussion forum where we can identify key issues for our programs and how to address them. The target audience is members of APS who are currently involved in these programs or may be interested in developing them.

Claude Bernard Distinguished Lectureship

The 2015 Claude Bernard Distinguished Lectureship award is presented to an established investigator with a history of excellence in education who is making outstanding contributions to teaching and learning. This year we are proud to announce that Barbara Goodman Ph.D., as the recipient of the Claude Bernard Distinguished Lectureship award. Professor Goodman is a Professor of at the Univ. of South Dakota Sanford School of Medicine. Dr. Goodman is known as a leading physiology educator both USD’s campus and at the APS. She was the 2011 recipient of the Arthur C. Guyton Physiology Educator of the Year Award and was a leading contributor to the first annual APS Institute on Teaching and Learning. She is an imperative part of the USD Center of Teaching and Learning groups and book clubs that focus on improving education. Dr. Goodman is most deserving of this
prestigious award and on behalf of the APS Teaching Section; we offer our most sincere congratulations.

Nominations for the 2017 are underway. The educator may be an APS member or a non-member nominated by a member. The awardee will give the Claude Bernard Distinguished Lectureship talk at Experimental Biology 2017. The awardee’s talk is expected to further interest and enhancement of educational practices relevant to teachers of physiology. The award consists of a $1000 honorarium, up $2000 travel reimbursement to Experimental Biology, complimentary registration to the meeting, and complimentary tickets to the section differ. Self-nomination is permitted for APS member.

Nominators must upload a nomination letter and nominee’s curriculum vitae by May, 2016. Notification of outcome of this award will be June 2016.

Bruce Award Judge for Undergraduate Posters

The APS Education Committee would like to invite you to serve as a Bruce Award judge for undergraduate posters during Experimental Biology. This year we are expecting around 30 finalists vying for approximately 14 awards. The undergraduate students will be presenting their posters to groups of Education Committee and APS member physiologists on Sunday, April 3, from 9:00 am -12:30 pm in the Sails Pavilion area of the San Diego Convention Center. We understand that we are asking a great deal of you to take the time out of your EB schedule to help judge posters. However, the Education Committee feels that the benefits of encouraging undergraduate research outweigh the time involvement needed.

If you are available on that Sunday from 9:00 am –12:30 pm and can help judge undergraduate posters, please let me know. We will be sending detailed information about the judging once we have all the judges identified.

Best Regards,
Melinda E Lowy
Higher Education Program Coordinator
mlowy@theaps.org

Thank you for your consideration of our request. We hope you can help out this year.

Updates on the 2016 Institute on Teaching and Learning

Planning is underway for the 2016 ITL! The website will be up and running shortly so keep on the look out. The main meeting begins on Monday, June 20 with our opening dinner and ends on Friday, June 24. We look forward to seeing you all there!
Advances in Physiology Education

Advances in Physiology Education welcomes two new broad categories of original research papers. The overview of these categories:

Submissions

Advances in Physiology Education submissions, compared to previous years, have been consistently up (see figure).

Best Practices Series

Advances in Physiology Education has begun its Best Practices series.

Our first submission by Marsha Matyas and Dee Silverthorn (just accepted) summarizes the history and evolution of the community of practice that is passionate about education in science and physiology. Among the resources available to members of this community of practice are the Life Science Teaching Resource Community, which evolved from the Archive of Teaching Resources, and the Sourcebook of Laboratory Activities in Physiology, which grew out of a collection of practical experiments published by the International Union of Physiological Sciences.

Also in review are papers that cover instructional design and learning theories.

In future installments, Best Practices papers will explore

active and student-centered learning,
assessment,
educational research and scholarship,
engaging lectures,
flipped classrooms, and
mentoring.

Collections

We have updated the Advances Collections: the Claude Bernard Lectures, Explorations in Statistics, Historical Perspectives, and Living Histories:

http://advan.physiology.org/collection

Upcoming Award Deadlines

Teaching Section Awards:

Arthur C Guyton Educator of the Year- Due Jan 5

The 2015 Arthur C. Guyton Educator of the Year Award supported by Elsevier ($1,000 cash prize plus reimbursement of the advanced registration fee, a framed, inscribed certificate, up to $750 in travel reimbursement to the Experimental Biology meeting and a complimentary ticket to the Section Dinner) recognizes a full-time faculty member of an accredited college or university and member of the APS who has
The intent of this program is to excite and encourage students to pursue a career as a basic research scientist.

The Teaching of Physiology Section New Investigator Award- Due December 1, 2015
This award recognizes an outstanding investigator in the early stages of his/her career. Candidates should be investigators who have made meritorious contributions to the area represented by the Teaching of Physiology Section. They should not be above the rank of Assistant Professor or a comparable position in a research track at an academic institution or in industry (e.g. Scientist, Sr. Scientist, Research Investigator, etc.). They should receive nominations from at least two regular members of the APS. Candidates will be judged on their publications, how the publications relate to the Teaching of Physiology Section and evidence for independence and promise (grant funding, peer review activities, etc.). Award includes $1,000 plus reimbursement of the advanced registration fee and a complimentary ticket to the Section dinner.

The Teaching of Physiology Section Research Recognition Awards- Due December 1, 2015.
To qualify for this award, the applicant must be first author on the poster, and age 40 or under or within 10 years of receiving the Ph.D. or M.D. Applicants must be APS regular, affiliate, or student members. Abstracts will be reviewed and rated by the Teaching Section Steering Committee. The committee values research work that has not been recognized by this award. Thus, a previous research recognition award recipient may apply if the research work is not substantially related to the research associated with a past award. All poster abstracts must be formally submitted to EB by the abstract deadline. Applicants must upload a copy of the first-authored abstract. Awardees will receive $500 plus reimbursement of the advanced registration fee, and a complimentary ticket to the Section dinner. Awardees must attend the Experimental Biology meeting in order to collect the cash prize. The recipients are also recognized at the Teaching of Physiology Section Business Meeting.

Undergraduate Research Excellence Fellowships program (UREFP)- Due Feb 1
The Undergraduate Research Excellence Fellowships program funds 6 full-time undergraduate students with significant prior laboratory research experience to work for 10 weeks during the summer in the laboratory of an established APS investigator. Each student has his/her own research question to work on during the summer. The intent of this program is to encourage students to pursue a career as a basic research scientist.

Undergraduate Summer Research Fellowship program (USRFP)-Due Feb 1
The Undergraduate Summer Research Fellowship program funds 24 full-time undergraduate students with little or no laboratory research experience to work for 10 weeks during the summer in the laboratory of an established APS investigator. Each student has his/her own research question to work on during the summer. The intent of this program is to excite and encourage students to pursue a career as a basic research scientist.

Teaching Section Experimental Biology Banquet Monday, April 4, 2016

Date/Time: April 4, 7-10 pm
Location: Athens Market Taverna
Cost: Standard ticket $65; student ticket $40
Looking forward to seeing you all there!
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Type</th>
<th>Title</th>
<th>Presenter</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday March 28, 2014</td>
<td>8:00 AM - 12:00 PM</td>
<td>Education Committee</td>
<td>Refresher Course: Keep Your Eye on the Ion.</td>
<td>Scrogin Rodenbaugh</td>
<td>Convention Center RM 24</td>
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<td></td>
<td>12:00-2:00 PM</td>
<td>Teaching Section</td>
<td>Steering Committee Meeting with lunch</td>
<td>Jon Kibble</td>
<td>BCEC, Room 201/202 (MM, MB)</td>
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<td></td>
<td>3:00-5:00 PM</td>
<td>Communications Committee Symposium</td>
<td>Setting the Record Straight for Science: How to Write to Local and National News Outlets</td>
<td>Barb Goodman</td>
<td>Convention Center RM 25C</td>
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<td></td>
<td>5:30-6:30 PM</td>
<td>Physiology in Perspective</td>
<td>The Walter B. Cannon Memorial Award Lecture</td>
<td>Amira Klip</td>
<td>Convention Center 20A</td>
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<tr>
<td>Sunday April 3, 2016</td>
<td>10:30-11:30 AM</td>
<td>Teaching Section</td>
<td>Claude Bernard Distinguished Lectureship: An Evolution in Student-Centered Teaching Sunday</td>
<td>Goodman</td>
<td>Convention Center RM 24</td>
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<td></td>
<td>12:00-1:00 PM</td>
<td>Teaching Section</td>
<td>Box Lunch Round Table</td>
<td>Teaching Section</td>
<td>Convention Center TBD</td>
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<td></td>
<td>12:00-3:30 PM</td>
<td>Experimental Biology</td>
<td>Teaching Section Posters</td>
<td>APS</td>
<td>Convention Center Exhibit Hall A-D</td>
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<td>Monday April 4, 2016</td>
<td>8:00 - 10:00 AM</td>
<td>Teaching Section FT</td>
<td>Innovations in Teaching Featured Topic</td>
<td>Golden</td>
<td>Convention Center RM 25B</td>
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<td></td>
<td>3:15 - 5:15 PM</td>
<td>Teaching Section Symposium</td>
<td>Scientific Foundation for Clinical Practice: More Than a Pile of Facts</td>
<td>M. Lourdes Alarcón Fortepiani</td>
<td>Convention Center RM 25B</td>
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<td></td>
<td>12:00 - 3:30 PM</td>
<td>Experimental Biology</td>
<td>Teaching Section Posters</td>
<td>APS</td>
<td>Convention Center Exhibit Hall A-D</td>
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<td></td>
<td>5:45 - 6:45 PM</td>
<td>Teaching Section</td>
<td>Business Meeting (everyone welcome)</td>
<td>Jon Kibble</td>
<td>TBA</td>
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<td></td>
<td>7:00 - 10:00 PM</td>
<td>Teaching Section</td>
<td>Banquet Dinner</td>
<td>Teaching Section</td>
<td>TBA</td>
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<tr>
<td>Wednesday April 6, 2016</td>
<td>4:45 - 5:45 PM</td>
<td>President's Symposium Series APS</td>
<td>APS Nobel Lecture in Physiology or Medicine</td>
<td>Roger Tsien</td>
<td>Convention Center RM 20A</td>
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