This is my first Newsletter as the Teaching Section Chair. The first thing I want to do is thank Barb Goodman, our previous chair, and acknowledge the terrific job she did. I am inheriting a well-run organization powered by an enthusiastic and talented Steering Committee. A highlight of Barb’s tenure was the successful launch of the Institute for Teaching and Learning this past spring. This event was a great success and Barb will continue to work with the APS Education Office to evolve the program. I also want to give a special mention to two Steering Committee members completing their terms at the coming Experimental Biology meeting. Our Program Chair Lynelle Golden has once again delivered an outstanding program for EB, which features symposia about Flipped Classrooms and the Rise of the Undergraduate Physiology degree. Rob Augustyniak completes his term as Events/Awards/Treasurer and leaves us financially in good shape. Rob also led a small group who organized a new Teaching Section dinner format aiming to maximize our opportunity for networking within the group. Look out for information about buying dinner tickets via the Listserv and APS website.

Since the last EB meeting we were successful in launching the William Galey Scholarship Fund. Under the new matching funds program, the APS will match the first $25,000 we raise. The fund is off to a great start with almost $6000 raised with your generous donations. Proceeds from the fund will be used to support graduate students or a postdoctoral trainee to attend the APS Professional Skills Training Course. Special thanks to Dee Silverthorn for being the main driving force behind establishing the Galey Fund. Bill Galey was a great servant of our section over many years and we will be honoring him at the Section dinner. Donations to the Galey Fund can be made through the APS Online Store or our Section’s page on the APS website.

Like many of you I am involved in developing competency-based and integrated educational programs at present. In this process I have come to appreciate the creativity and energy produced when teams of faculty work together. Experimental Biology is an opportunity for physiology teachers to meet and together strengthen the Teaching Section’s community of scholarship and mentoring. I look forward to seeing you in Boston!
Dear Teaching Section members,

In an effort to increase both participation and discussion amongst colleagues, the steering committee has made some exciting changes to the Teaching Section Banquet dinner for EB2015. These changes include:

- Onsite location at the APS headquarters hotel
- Time built into the evening to meet one another and exchange ideas
- Presentation of the New Investigator, Research Recognition and Guyton Awards
- Remarks from the Guyton Award winner
- Importantly, a tribute to our late friend and colleague Dr. William Galey

Please consider attending this fun-filled evening, as it will be a wonderful opportunity to build stronger relationships amongst our members.

If you have any questions, please do not hesitate to contact me.

Sincerely,
Robert A. Augustyniak, PhD
Treasurer/Special Events coordinator
Email. raugustyniak@carolinas.vcom.edu
Phone. 864-327-9831

**Updates from Advances in Physiology Education**

**Advances in Physiology Education**

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

**How We Teach: Generalizable Education Research**

These studies may arise from physiology and its associated life sciences as well as medical, dental, and allied health education. Studies will be hypothesis driven, with a clear justification grounded in learning theory or published research. Articles should state a central hypothesis and specific aims and will include a succinct review of the relevant background literature.

**How We Teach: Classroom and Laboratory Research Projects**

These studies typically arise from innovations by physiology teachers. The topic of research may cover any aspect of pedagogy, assessment, or curriculum development. Papers that address the use of technology, mathematical modeling, or simulation are particularly encouraged. ... Outcome data should be included to demonstrate the success of the intervention; these data may include student and teacher perceptions as well as quantitative assessment of the activity’s impacts on learning.
The complete descriptions are listed at [http://www.the-aps.org/mm/Publications/Journals/Advances/Article-Types](http://www.the-aps.org/mm/Publications/Journals/Advances/Article-Types).

**New Best Practices Series**

*Advances in Physiology Education* is beginning a series we call *Best Practices*. We hope the series will provide opportunities for faculty development by 1) reviewing the theory and evidence behind current approaches to teaching and learning and 2) providing a practical framework to implement those theories in the classroom or laboratory. Among the topics for which we have commissioned papers are the Archives and Sourcebook, learning theories, assessment, flipped classrooms, instructional design, mentoring, and educational research and scholarship.

### Updates from APS Communications Committee

The APS Communications Committee met in December at APS Headquarters for their Winter Meeting. Major agenda items discussed were:

- APS Social Media Accounts (Facebook, Twitter, LinkedIn)
  - Encouraging use of #ISpyPhysiology to promote the field
- How to best promote and educate lay audiences
  - Use of the physiologyinfo.org site
  - Additional blogging and content

In general, there is concern from the committee about the prominence of physiology as a discipline. A variety of ways in which the APS “brand” can be enhanced were discussed. The committee has committed to working with APS Communications and Marketing to help promote the discipline to the public and integrate the efforts of other APS committees (Education, Policy, etc). The committee will host a symposium at Experimental Biology on Communicating with the Media (Saturday at 3:15pm).

Anne R. Crecelius  
University of Dayton  
APS Communications Committee

### Updates on the 2016 Institute on Teaching and Learning

Planning is continuing on the 2016 Institute on Teaching and Learning. Initial negotiations are occurring with Beloit College in Beloit, WI for June 20-24, 2016. Due to the interest of the physiology course directors group and the Education Committee, the ITL is being designed to have at least two tracks (one for undergraduate faculty and one for faculty from professional schools) in addition to cross-cutting plenaries and workshops. We are working on the proposed program which is due to APS Council in its next draft by mid-January 2015. Please contact Barb Goodman with topic ideas and suggested speakers for the ITL at 605-658-6337 or barb.goodman@usd.edu.

Barb Goodman  
Univ. of South Dakota Sanford School of Medicine  
Teaching Section Past Chair  
ITL Representative

### Introducing PECOP!!

We have launched the new community online communications at LifeSciTRC ([http://blog.lifescitrc.org/pecop/2014/11/17/creating-core-concepts-in-animal-physiology/](http://blog.lifescitrc.org/pecop/2014/11/17/creating-core-concepts-in-animal-physiology/)). We will have
blog posts every other Monday and other discussion forums.

What is PECOP?
PECOP is a community for individuals at any academic level who are excited about physiology education.

PECOP seeks to:
- Expand and support a community of practice of physiology educators committed to evidence-based scientific teaching and scholarship of teaching and learning (SOTL) and discipline based education research (DBER)
- Empower physiology faculty from diverse institutions to become leaders in physiology education reform efforts (evidence-based teaching practices, current issues in physiology education and physiology education research, available leadership roles)
- Catalyze collaboration among physiology professionals in education reform and research to enhance student learning.

PLEASE JOIN AND PARTICIPATE IN PECOP!

Upcoming Award Deadlines

**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 independent evidence of: (1) excellence in classroom teaching over a number of years at the undergraduate, graduate, or professional levels; (2) commitment to the improvement of physiology teaching within the candidate's own institution; and (3) contributions to physiology education at the local community, national or international levels. The awardee is requested to write an essay on his/her philosophy of education for publication in *The Physiologist*.

**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.
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Type</th>
<th>Title</th>
<th>Presenter</th>
<th>Location</th>
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<tbody>
<tr>
<td>Saturday March 28, 2014</td>
<td>8:00 AM - 12:00 PM</td>
<td>Education Committee</td>
<td>Refresher Course: It's All in Your Head: A Refresher Course on the Brain and Systems Control</td>
<td>Young Rodenbaugh</td>
<td>Convention Center RM 210 A</td>
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<tr>
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<td>12:00-2:00 PM</td>
<td>Teaching Section</td>
<td>Steering Committee Meeting with lunch</td>
<td>Jon Kibble</td>
<td>TBA</td>
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<td>3:00-5:00 PM</td>
<td>Communications Committee Symposium</td>
<td>Communicating with the Media (Alan Alda Center for Communicating Science)</td>
<td>Barb Goodman</td>
<td>Convention Center RM 207</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>Yanagisawa</td>
<td>Convention Center RM 210 BC</td>
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<td>Sunday March 29, 2014</td>
<td>8:00 - 10:00 AM</td>
<td>Teaching Section</td>
<td>Innovations in Teaching: Creating Inclusive Classroom Environments</td>
<td>Miller</td>
<td>Convention Center RM 211</td>
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<td>10:30-11:30 AM</td>
<td>Teaching Section</td>
<td>Claude Bernard Distinguished Lectureship</td>
<td>Macknight</td>
<td>Convention Center RM 210A</td>
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<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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<tr>
<td>Monday March 30, 2014</td>
<td>8:00 - 10:00 AM</td>
<td>Teaching Section</td>
<td>Resources and Experiences in Developing Flipped Classrooms for Graduate and Medical Physiology</td>
<td>Wilson</td>
<td>Convention Center RM 211</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>3:15-5:15</td>
<td>Teaching Section</td>
<td>What's Your Major? The Rise of the Undergraduate Physiology Degree</td>
<td>Halliwill &amp; Wehrwein</td>
<td>Convention Center RM 211</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 Ticket Required</td>
<td>TBA</td>
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<tr>
<td>Wednesday April 30, 2014</td>
<td>4:45 - 5:45 PM</td>
<td>President’s Symposium Series</td>
<td>APS Nobel Lecture in Physiology or Medicine</td>
<td>Bruce Beutler</td>
<td>Convention Center RM 20A</td>
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