

The American Physiological Society

Teaching of Physiology

Section Newsletter, September/October 2002



The start of another academic year is upon us. As you pulled together your course materials you undoubtedly reflected on last year's successes in the classroom, areas you aim to improve upon, and experiments and innovations to be tried for the first time. As you read about the Teaching Section's accomplishments during the past year and plans for the upcoming year, would you take a moment to reflect upon items you would like to see in future section newsletters, that is innovations for future editions. Please email your ideas to wreilly@indiana.edu. Best wishes for a wonderful academic year 2002/03.

Whitney Schlegel, secretary

MESSAGE FROM THE CHAIR



I have mixed emotions as I begin chairing the Teaching Section. To be sure, I'm honored and excited (I'm "chuffed", as they say here in Newfoundland). But I also feel a strong sense of humility and am a little daunted because our section includes so many really outstanding physiologists. I hope I'm up to the job of representing you all! I certainly promise to be attentive to your needs and ideas. Please let me know your comments and suggestions – preferably by e-mail at phansen@mun.ca since I'm on sabbatical this year and will be traveling around.

One of the focuses of our section in the next few years will be to co-sponsor a satellite meeting on physiology education in advance of the 2005 IUPS Congress in San Diego. Our partner in this endeavor is the newly-formed IUPS Education Committee, which I co-chair with Ann Sefton of Sydney, Australia. This will require lots of help from Teaching Section members, not least of which will be to find a suitable venue. We need a place within an hour or so of San Diego that can house and feed about 100 people, with a lecture hall large enough for the entire group plus at least four smaller breakout rooms. It must be inexpensive since many of the participants will be from developing countries. We are thinking of a place such as a church camp or a college campus. If you are familiar with the area or have a colleague who is, please put on your thinking caps and send me your ideas before the next EB meeting.

At our section business meeting at EB 2003 we will discuss potential venues, set up planning committees, and ask for volunteers to help. So, please make every effort to come to the business meeting. I look forward to seeing you there. *Penny Hansen, Chair*

LOOKING BACK.....

AWARDS

•EB 2001 Orlando

Guyton Teacher of the Year

Dee Silverthorn, University of Texas, Austin, Texas

Claude Bernard Lecture

Joel Michael, Rush Medical
College, Chicago, Illinois



Young Investigator Awards:



Nancy Pelaez, California State University,
Fullerton, California

Jeannine Matz, University of Osteopathic
Medicine and Health Science, Des
Moines, Iowa

William Cliff used his 2000-2001 year as a **Carnegie Scholar** to understand the impact of case analysis on the learning process. Specifically, he examined the degree to which case study analysis enables students to overcome misconceptions in anatomy and physiology. Bill chaired the EB 2001 symposium, *Incorporating Case Studies in the Physiology Classroom*. To learn more visit, <http://www.carnegiefoundation.org>.

•EB 2002 New Orleans



Guyton Teacher of the Year

John West, University of California, San Diego

Claude Bernard Lecture
Penelope A. Hansen,
Memorial University, Newfoundland,
Canada



Young Investigator Awards:

Nancy Pelaez, California State University, Fullerton, California



Whitney Schlegel, Indiana University,
Bloomington, Indiana



LOOKING FORWARD.....

EB 2003 San Diego Saturday April 11th - Wednesday April 15th
Abstract Deadline: November 8th, 2002

Claude Bernard Lecture

Sunday April 11th, 2002
2:00 PM

John Bransford, Vanderbilt University

EARLY EB 2003 PROGRAM HIGHLIGHTS

QuickTime™ and a
Photo - JPEG decompressor
are needed to see this picture.

John D. Bransford is Centennial Professor of Psychology and Education and Co-Director of the Learning Technology Center at Vanderbilt University. Early work by Bransford and his colleagues in the 1970s included research in the areas of human learning, memory and problem solving, and helped shape the "cognitive revolution" in Psychology. An author of seven books and hundreds of articles and presentations, Bransford is an internationally renowned scholar in the areas of cognition and technology. Bransford is currently co-chair of a National Academy of Science committee on "New Development in the Science of Learning". The goal is to synthesize new findings from research to create a "user friendly" theory of human learning. To learn more about this year's Claude Bernard Lecturer visit his web site:

<http://canvas.ltc.vanderbilt.edu/john/default.htm>

MORE EB 2003 HIGHLIGHTS.....

☞ **APS Refresher Course:** Muscle Physiology
George Ordway and Robert Hester

☞ **Section-Sponsored Symposia and Featured Topics**

- Is it the Physiology, the Students, or is it Me? Reflections on the Classroom. *Harold Modell*
- The Teacher as an Educational Researcher
Joel Michael and Dee Silverthorn

☞ **Physiology In Focus**

- Physiological Implications of Oxidative and Nitrosative Stress
Organized by: Barbara Horwitz

Nominations Deadline: December 7th, 2002

Guyton Teacher Of The Year Award

Presentation at APS Business Meeting

Tuesday April 14th, 2003

5:30 PM

"Physiologists are great teachers!"

(Your chance to reward the best!)

The Teaching Section of the American Physiological Society invites you to take the initiative to nominate a fellow physiology educator for the *Eleventh Annual*

Arthur C. Guyton Physiology Teacher of the Year Award.

Nomination Process for Arthur C. Guyton Physiology Teacher of the Year Award

Nominees must be full-time faculty members of accredited colleges or universities and members of the American Physiological Society. The Selection Committee will look for 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.**

Each nominee must be nominated by a member of APS. The **nominator is responsible** for completing the application materials and forwarding **six (6) copies** of the application materials listed below to the Chairman of the Award Selection committee, postmarked **no later than December 7, 2002**.

1. A letter from the nominator
2. Letters of support from three other colleagues familiar with the nominee's contributions to physiology education. If possible, one letter should be from the nominee's chairperson. One letter must be from a colleague outside of the nominee's institution.
3. Letters of support from up to five current and/or former students
4. Scores on standard student evaluations (with normative data if possible)
5. Details of all teaching honors received (i.e. Golden Apple, Teacher of the Year, etc.)
6. Evidence of education-related activities outside the classroom for which the nominee has received national or international reputation. This could include (but is not limited to):
 - A. publication of teaching innovations or educational research
 - B. development and publication of laboratory exercises
 - C. development and distribution of teaching software
 - D. authoring of textbooks
 - E. presentation and/or publication of educational research
 - F. conducting seminars, workshops, conferences, etc. on physiology education
7. A copy of the nominee's curriculum vitae
8. Any additional documentation that would assist the selection committee in evaluating the nominee's contribution to physiology education

The Arthur C. Guyton Physiology Teacher of the Year will receive a framed, inscribed certificate, an honorarium of \$1,000 and expenses of up to \$600 to attend the meeting. The awardee is requested to write an essay on his/her philosophy of education for publication in The Physiologist.

The **Chairman** of the Guyton Award Selection Committee is Michael Levitzky, Department of Physiology, LSU Health Science Center, 1901 Perdido Street, New Orleans, LA 70112-1393. Phone: (504) 568-6184.
e-mail: Mlevit@lsuhsc.edu

LOOKING AHEAD SOME MORE.....

EB 2004 Washington, D.C.

Suggestions are needed for Featured Topics and Symposia. Program suggestions must be defined by December 2002. Organizers receive \$1000 for Featured Topics sessions and \$4000 for Symposia. Email Joel Michael with your proposals. jmichael@rush.edu

International Congress of Physiological Sciences [IUPS] 2005, San Diego

The 35th Congress will be held March 31-April 5, 2005. The theme for the Congress is "From Genomes to Functions". A satellite meeting on physiology education co-sponsored by the APS Teaching Section and the IUPS Education Committee will be held in advance of the Congress. Approximately 100 physiology teachers from around the world are expected to participate. Help is needed to identify a location in the San Diego area for this event. Please see the chair's message in this Newsletter for more details, and e-mail suggestions for venues to her at phansen@mun.ca.

BRIEF COMMITTEE REPORTS

Education Committee Report

- The Education committee will implement the David Bruce Awards for Undergraduate Research. Beginning in San Diego at EB 2003 there will be 2 awards with an anticipated maximum in 2004 of 4 awards. The total number of awards will not exceed 10% of the abstracts submitted. The Education Committee will establish the criteria for award submission and selection.
- The Bioscienced Network [BEN portal] is a National Digital Library. This is a multiplayer link resource. Barbara Goodman, former Chair Education Committee received the Reynold's Fellowship to assist with the development of this archive. The challenge has been establishing keywords to drive the search of the archive. All societies have agreed upon the format and structure of the archive. APS has taken the lead with this project and Dee Silverthorn's Integrative Themes was the FIRST to be added the Bioscienced Net! Visit the site: <http://www.biosciencednet.org/portal>

Education Committee Report (continued)

- Physiology Archives is a fully searchable database of teaching resources and provides a forum for sharing and discussing teaching materials developed by physiology educators at all levels. The archive is now accepting submissions of all educational resource types. Access to the archive is free and open to all educators. www.apsarchive.org
- Medical Physiology Curriculum Objectives is a systematic presentation of core physiological concepts focused primarily on normal body function. The curriculum can be downloaded from <http://www.the-aps.org/education/MedPhysObj/medcor.htm>

Industry Committee Report

The 2003 Workshop, "Physiology and Risk Assessment: Predicting Adverse Effects of New Chemicals on Critical Organ Functions", directed by Lewis B. Kinter and Alan S. Bass was well attended. The Teaching Section Steering Committee suggestion of an internship website was adopted. If you are interested in assisting with this endeavor please contact Jodi, jklitowi@cc.ysu.edu

Committee on Committees Report

Stephen DiCarlo reported that the number of Teaching Section nominees for committees was low and emphasized the importance of nominating section members for APS Committees.

Careers Committee Report

A new brochure featuring individuals in industry is available. In addition there are 2 powerpoint presentations for recruitment into the discipline.

TEACHING SECTION MEMBERSHIP: 969 members

147 Regular; 53 Affiliate; 769 Secondary/Tertiary

CHANGES MADE TO THE TEACHING SECTION STEERING COMMITTEE

The Treasurer's office duties were merged with those of the Secretary's office and a new office, Events and Awards, was approved. The newly created Events and Awards Officer, Michael Levitzky, will coordinate the Teaching section dinner, Bernard Lecture, Reception, and Breakfast Roundtable. This officer will also manage the Young Investigator Awards and Proctor and Gamble Awards. Bill Galey was elected by the section as Liaison to the Education Committee and will serve ex-officio on the Education Committee and the Teaching Section Steering Committee.

TEACHING SECTION STEERING COMMITTEE 2002

Chair and Section Advisory Committee Representative

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2005

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Liaison to the APS Education Committee

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Committee on Committees Representative

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Liaison with Industry Committee Representative

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2004

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2004

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indefinite

Careers Committee

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2004

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The APS Teaching Career Enhancement Award

Award: Up to \$4,000
Contact: Executive Office
Deadline: April 15 and October 15
<http://www.the-aps.org/awards>

The APS Teaching Career Enhancement Award is designed to enhance the career potential of regular members. The award provides up to \$4,000 to allow an individual to develop innovative and potentially widely applicable programs for teaching and learning physiology. The award can be used to support short-term visits to other schools to consult with experts who can assist with the development project. It can also be used to support attendance at special courses devoted to methodologies appropriate for the educational development project.

LASTLY.....

Teaching Section Travel Awards (\$500) for EB 2003 in San Diego

The **Teaching of Physiology Section** (\$500) will provide two travel awards for outstanding posters presented in the Teaching of Physiology poster-discussion session at Experimental Biology '01. Submission of a poster to this session DOES NOT exclude the simultaneous presentation of a research poster or talk. (See the Teaching Section page of the APS website for additional information about criteria for excellence in poster presentations.) 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 MD. Applicants must also be APS regular, affiliate, or student members. Abstracts will be reviewed and rated by the Teaching Section Steering Committee. All poster abstracts must be formally submitted to EB by the application deadline. To apply for this award, please send a copy of your abstract submission and a completed *APS Award Certification Form* to: Daniel Lemons, Ph.D. Dept. of Biology, City College New York, 138th and Convent Av, Rm J526, New York, NY 10031, fax: 212-650-8549, daniel@harold.sci.cuny.edu
Deadline for receipt of the application is November 8, 2002.