MESSAGE FROM THE CHAIR, Dr. Suzanne Schneider

Happy New Year from the officers of the History of Physiology Group (HPG). As we look forward to the coming year, we encourage anyone with an underlying interest in the history of physiology to send us your suggestions or volunteer for future activities. Our annual Business Meeting will be held on Mon, April 23rd, from 12:01 until 2 pm in the Rancho Las Palmas room of the San Diego Marriott Marquis & Marina Hotel; a buffet lunch will be served. Pick up your lunch at the nearby APS office (Warner Center) before going to the meeting room. At approximately 12:25 p.m., the Business Meeting will begin. One issue we must resolve will be to finalize our program and speakers for the history symposium and business meeting for next year (2013). Please attend this business meeting and bring your students as well. After the business meeting, Dr. Jerome Dempsey of the University of Wisconsin will present an informative and interesting lecture/discussion pertaining to the history of respiratory physiology.

We encourage members to invite non-HPG members and students to attend this luncheon meeting and History Lecture. We ask that members who plan to attend RSVP via e-mail to Dr. Suzanne Schneider (sschneid@unm.edu) on or before February 23, so she can notify APS (who generously provides the food) of the number who will be in attendance. If you can’t attend the luncheon, plan on joining us at 12:25 for Dr. Dempsey’s talk.

The HPG this year has a leading role in celebrating the 125th anniversary of the American Physiological Society. Our History Symposium is planned to highlight the accomplishments of our society and to feature short vignettes from the work of selected eminent physiologists. These few chosen were selected based on invited input from each APS section chair, and the finalists were voted for by the HPG officers. Believe me, this was not an easy task! And, undoubtedly the results will be surprising and hotly debated. Please plan to attend the unveiling of our choices Wednesday April 25th during the History of Physiology Group Symposium from 10:30 until 12:30 in room 23 of the San Diego Convention Center.

JERRY DEMPSEY TO PRESENT THE HISTORY OF PHYSIOLOGY LECTURE

For 2012, our annual luncheon lecture will be presented by Dr. Jerome A. Dempsey, who is the John Robert Sutton Professor of Population Health Sciences and Emeritus Director of the John...
Rankin Laboratory of Pulmonary Medicine at the University of Wisconsin School of Medicine and Public Health. Dr. Dempsey is also the immediate past editor of the Journal of Applied Physiology. The title of his lecture will be “Danish Contributions to Respiratory Physiology: Krogh vs Haldane and the Three Musketeers.” Please join us for what promises to be an illuminating and entertaining talk.

***** HPG SYMPOSIUM *****

The title of this year’s HPG-sponsored symposium is “The American Physiological Society: 125 Years of Progress.” As you know (or should know), 2012 is the 125th anniversary of the founding of APS, and there are a number of special events planned. Our symposium marks the occasion. If you don’t know who the 3 individuals pictured on the masthead are, come and find out (see end of newsletter for answers)! We are also fortunate to have as speakers Dr. Robert G. Carroll from the East Carolina University School of Medicine and Dr. Martin Frank, the Executive Director of APS. Also, your leadership asked each of the sections to provide input as to classic papers in physiology produced by APS members over the past 125 years. Your program committee then winnowed these down to a few that will be presented within the symposium by Charles Tipton. If you don’t agree with our selections, you will have a chance to voice dissent; audience participation will be encouraged and expected. The symposium will be held on Wednesday, 25 April, from 10:30 to 12:30 p.m. in room 23 of the San Diego Convention Center and will be co-chaired by Drs. Charles Tipton and Kathy Ryan.

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<tr>
<th>Presentation Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>10:30 AM</td>
<td>Introduction</td>
<td>Charles M. Tipton</td>
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<tr>
<td>10:33 AM</td>
<td>Reacquaintment with APS heritage</td>
<td>Kathy L. Ryan</td>
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<td>10:50 AM</td>
<td>APS: 125 years of progress in physiology as a scientific discipline and profession</td>
<td>Robert G. Carroll</td>
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<td>11:10 AM</td>
<td>APS: 125 years of progress in advocating and implementing scientific policies and practices at the national and international levels</td>
<td>Martin Frank</td>
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<td>11:30 AM</td>
<td>APS Sections and Group Recommendations: APS members who have performed significant physiological studies during the past 125 years</td>
<td>Charles M. Tipton</td>
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<td>12:05 AM</td>
<td>Counterpoint discussion: Recommendations of APS members who have performed significant physiological studies during the past 125 years</td>
<td>Selected Senior APS Members</td>
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There are a number of symposia that may appeal to the HPG membership. Among these are a Cross-sectional symposium entitled “Recent Advances in Physiology and Disease: The Role of the Circadian Clock in Neural, Cardiovascular and Metabolic Function,” chaired by Michelle L. Gumz and R. Daniel Rudic, to be held Wed, 25 Apr, 8:00-10:00 a.m. Additionally, the Environment and Exercise Physiology Section is sponsoring a symposium chaired by Jose Antonio Lopez Calbet and Jerome Dempsey entitled “Oxygen transport and fatigue in humans: Unravelling the mechanisms” on Wed, 25 Apr, 10:30 a.m.-12:30 p.m.

In terms of Featured Topics, there are at least three that might be of interest to you:

1) Compensatory responses to acute or chronic hypoxia exposure (Chair: William G. Schrage), Mon, 23 Apr, 3:30-5:30 p.m.
2) Thermal physiology: From acute responses to protective adaptation (Chair: Christopher J. Minson), Tues, 24 Apr, 8:00-10:00 a.m.
3) The lethality of trauma: New insights into the physiology of hemorrhage (Chair: Victor A. Convertino), Tues, 24 Apr, 10:30 a.m.-12:30 p.m.

Please check the EB 2012 program book for the location of each of these symposia and featured topics.

*****HPG POSTER SESSION*****

In addition to the above symposia, look for the HPG poster session. This will be held on Wed, 25 Apr, with posters up all day. Authors will be present from 12:45 to 3:00 p.m.

SPECIAL EVENTS PLANNED FOR 125th ANNIVERSARY OF APS FOUNDING

On Wed, 25 Apr, there will be a special symposium featuring Oliver Smithies, winner of the 2007 Nobel Prize in Physiology or Medicine. Dr. Smithies shared in the prize with Mario R. Capecchi and Sir Martin J. Evans “for their discoveries of principles for introducing specific gene modifications in mice by the use of embryonic stem cells.” Following the lecture, APS is throwing a 125th birthday party featuring the band “GI Distress,” made up of APS members. See you there!

EB2011: MINUTES OF APS HISTORY OF PHYSIOLOGY GROUP MEETING (to be voted on by the HPG at EB2012)

On 12:00 p.m. on 12 April 2011, the HPG had its annual Business Meeting at the Renaissance Hotel in Washington, D.C. Approximately 16 individuals attended the business meeting and/or subsequent lecture. In addition to HPG members, Ms. Elizabeth Austin from Wiley Publishing was present and was introduced by Dr. Charles Tipton. Following lunch, Dr. Sue Schneider (Chair of the Group) called the meeting to order. Individuals present then introduced themselves.

Dr. Jay Dean reported the results of the Joint Program Committee (JPC) Meeting. Dr. Dean reported that the proposed symposium “The American Physiological Society: 125 Years of Progress” was received well by the JPC and will be scheduled on Wed, from 10:30 a.m. to 12:30 p.m. at next year’s EB in San Diego. The co-chairs of the symposium will be Drs. Tipton and Kathy Ryan. The symposium will have 4 objectives: 1) to remind the membership of its
heritage; 2) to acknowledge APS achievements as a scientific discipline and profession; 3) to emphasize its national and international accomplishment in promoting scientific policies and practices; 4) to inform members of the selections to APS Sections of eminent physiological studies and to involve the membership in discussion of these studies. Speakers within the symposium are already confirmed and include Drs. Ryan, Robert Carroll, Martin Frank and Tipton. The final symposium proposal must be submitted by 13 May 2011. Dr. Dean also reported that all Section Chairs have been asked to submit a detailed timeline of accomplishments within their Section during the 125 years of the APS.

In discussing ideas for future symposia, Dr. Dean suggested that HPG work more closely with section chairs to develop ideas. He suggested that HPG should pick a section to work with each year, thereby working our way through the sections. It is hoped that this approach will increase HPG membership and interest. It was also suggested that HPG check with Clark Blatteis, who had submitted a symposium proposal on the work of Steven Horvath that was not accepted by the EEP Programming Committee; this might be a possible symposium for 2013.

Ideas were then solicited for a 2012 luncheon speaker. A suggestion was made to have a talk on Scholander, but Dr. Tipton commented that we had had one of these a few years ago. Dr. Michael Sawka stated that the 50th anniversary of the US Army Research Institute for Environmental Medicine is this summer and might provide opportunity for a luncheon talk next year. The suggestion was also made to have Dr. Jerome Dempsey speak on a topic on respiration.

Dr. Tipton reported that he has approached Wiley Publishing about sponsoring a History of Physiology Distinguished Lecture as part of the regular EB program at future EB meetings. APS Council has previously turned down a request for HPG to sponsor and schedule a History of Physiology lecture, so Dr. Tipton is pursuing an approach of seeking sponsorship from an external source such as Wiley Publishing.

Subsequently, Dr. Schneider introduced Dr. John Castellani, who presented a talk entitled “Exercise and Environmental Physiology during the Revolutionary War.” In this talk, Dr. Castellani evaluated environmental conditions at two battles of the American Revolutionary War (Trenton and Cowpens), describing in the context of present knowledge how these conditions affected the performance of the soldiers. The talk was well-received and Dr. Castellani was urged to publish the work in Advances in Physiology Education.

The meeting was adjourned at 1:33 p.m.

**CALL FOR SUGGESTIONS FOR THE EB2013 PROGRAM**

It is time to select the symposium or featured topics programs for the Experimental Biology 2013 meeting. Anyone interested in putting together a symposium or Featured Topic should contact a member of the History Group program committee (see end of this newsletter for contact information) before the April Joint Program Committee meeting 21 Apr 2012. We are also soliciting suggestions for luncheon speakers for next year and beyond. We would like to see some new faces for all of the presentations.
HISTORY OF PHYSIOLOGY PUBLICATIONS...

There were three historical articles published in the latest *Advances in Physiology Education*. The first, by E. J. Henriksen et al., was entitled “The Physiology undergraduate major in the University of Arizona College of Medicine: past, present, and future” and discussed the development of a Bachelor of Science degree program with a major in Physiology as part of the curriculum within a medical school environment. In the second work, entitled “The work by Giulio Ceradini in explaining the mechanism of semilunar cardiac valve function,” Diana Troiani and Ermanno Manni illuminates the contribution of this Italian physiologist in determining the mechanism underlying the mechanism of closure of the semilunar valves. This work was accomplished while Ceradini was working in Carl Ludwig’s laboratory in Leipzig Germany and the principles elucidated remain as valid today as at the time of publication in 1872. Finally, Kent Pandolf et al. presented “United States Army Research Institute of Environmental Medicine: Warfighter research focusing on the past 25 years.” This paper delineates accomplishments of USARIEM and arose from a symposium celebrating the Institute’s 50th anniversary. If you have an interest in physiological history, the HPG leadership urges you to consider developing this into a manuscript for submission to *Advances in Physiology Education*.

For general biomedical science history, I would also recommend “Destiny of the Republic: A Tale of Madness, Medicine and the Murder of a President” by Candice Millard. This is a fascinating and engrossing description of the assassination of President James A. Garfield in 1881. If you’re like me, you probably don’t know much about Garfield, but he was a self-made, highly accomplished individual and Civil War hero who did not actively seek the presidency (strange, considering subsequent evolution of the process). After only a few months in office, he was shot by Charles Guiteau, a man with a history of mental illness. Interestingly, Garfield would have survived the gunshot wound had his doctors not created profound infections because they did not believe in Joseph Lister’s theory of antisepsis. Wrapped around this story is also the story of Alexander Graham Bell, who frantically worked to develop a technology to find the location of the bullet within Garfield’s body before his ultimate demise of septicemia 3 months after the shooting. This book has rightfully been placed on many “Best Book of the Year” lists by top periodicals, as it is fascinating history that is told in a riveting fashion.

...AND THE LIVING HISTORY OF PHYSIOLOGY PROJECT

APS has established the Living History of Physiology Project as a means to capture interviews with senior physiologists in video format. There are currently 30 videos of eminent physiologists available on the web site (http://www.the-aps.org/livinghistory). The most recent additions to this resource are videos of William Hansel and Arnold M. Katz. HPG members are urged to consider interviewing senior physiologists at their institutions so that we might continue to grow this valuable resource for future generations.
KNOW AND CONTACT YOUR LEADERS IN THE HISTORY OF PHYSIOLOGY GROUP

CHAIR
Suzanne Schneider, Ph.D.  
Department of Health, Exercise and Sports Sciences  
University of New Mexico  
MSC 04 2610  
Albuquerque, NM 87131  
Phone: (505) 277-2658  
Fax: (505) 277-6227  
e-mail: sschneid@unm.edu

SECRETARY AND NEWSLETTER EDITOR:
Kathy Ryan, Ph.D.  
US Army Institute of Surgical Research  
3400 Rawley E. Chambers Ave.  
Ft. Sam Houston, TX 78234  
Phone: (210) 916-4366  
Fax: (210) 916-5992  
e-mail: kathy.ryan@amedd.army.mil

REPRESENTATIVE TO THE JOINT PROGRAM COMMITTEE (JPC):
Jay B. Dean, Ph.D.  
Department of Molecular Pharmacology and Physiology  
University of South Florida  
12901 Bruce B. Downs Blvd,  
Tampa, FL 33612-4799  
Phone: (813) 974-1547  
Fax: (813) 974-3079  
e-mail: jdean@health.usf.edu

CHAIR OF THE PROGRAM COMMITTEE
Charles M. Tipton, Ph.D.  
Department of Physiology  
Ina Gittings Building, Room 109  
University of Arizona  
Tucson, AZ 85721  
Phone: (520) 621-6992  
Fax: (520) 621-8170  
e-mail: Tipton@email.arizona.edu

PROGRAM COMMITTEE
Charles Tipton, Ph.D., Chair  
Jay Dean, Ph.D.  
Kathy Ryan, Ph.D.  
Suzanne Schneider, Ph.D.

ANSWERS TO “WHO ARE THESE PHYSIOLOGISTS?”

From L to R: Henry Pickering Bowditch, H. Newell Martin and S. Weir Mitchell. These three gentlemen were the primary founders of APS (Russell H. Chittenden and John G. Curtis played more minor roles). Come to our symposium to find out which could not obtain a chair in physiology and which died of alcoholism at age 48.