



***Association of  
Chairs of  
Departments  
Of Physiology***

***2017 Leadership Retreat***

***November 30 - December 3, 2017***



***Hilton Rose Hill Resort  
Montego Bay, Jamaica***



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Welcome to the 2017 Annual Retreat of the Association of Chairs of Departments of Physiology. I am happy to welcome you to Jamaica, and I trust that we will all have a meeting that is productive, collegial, and fun. We are welcoming several new chairs and interim chairs this year, and our membership continues to grow with a broad representation of chairs of Physiology departments in professional, graduate, and undergraduate schools.

The agenda includes our usual agenda items, including a New Chair Lecture, to be delivered by Toni Pak (Loyola University), as well as talks by our Guyton Awardee (John Solaro, University of Illinois at Chicago), and our Distinguished Service Awardee (Hershel Raff, St. Luke's Hospital and Medical College of Wisconsin). We will also receive a legislative update from Jennifer Zeitzer (FASEB), and I think that you will all agree that this will be of great interest to all of us whose departments depend on federal research support. My theme for discussion this year addresses our core missions: teaching and research. We will have three sessions devoted to better understanding the different models of teaching Physiology at all levels (graduate, professional, and undergraduate), devoted to better understanding of the different models of funding our departments and what we can do to maintain strong departments in times of reduced "hard money", and devoted our definition of Physiology as a discipline and, by extension, what our academic role will likely be in the future.

The ACDP would not exist in its present form without the American Physiological Society. We simply would not be as strong or as cohesive or as influential without the strength and continued support of the APS. The highlight of the meeting will be a celebration of the career of Marty Frank, who is retiring as the Executive Director of the APS in 2018. We are fortunate that Irv Zucker, a longtime chair and member of the ACDP and Marty Frank expert, has agreed to come to Jamaica to help us celebrate Marty.

Thank you for coming! Enjoy the meeting and enjoy beautiful Jamaica.

Sincerely,

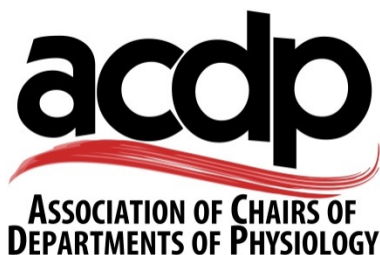
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Professor and Chair  
Department of Physiology and Functional Genomics  
University of Florida College of Medicine

2016-2017

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Janice H. Urban, President-elect  
T. Richard Nichols, Past-President  
Elsa I. Mangiarua, Secretary/Treasurer

V. Gustavo Blanco, Councilor (2019)  
D. Buck Hales, Councilor (2017)  
Christopher Hardin, Councilor (2019)  
Kebreten F. Manaye, Councilor (2017)

Edward E. Morrison, Councilor (2018)  
Marlene A. Wilson, Councilor (2018)  
Nicholas A. Delamere, CFAS Rep. (2018)  
R. Clinton Webb, CFAS Rep. (2017)



ACDP Leadership Retreat  
 November 30 - December 3, 2017  
 Program Book

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**Association of Chairs of Departments of Physiology**  
**Physiology Programs Leadership Retreat Agenda**  
**Hilton Rose Hill Resort**  
**Montego Bay, Jamaica**  
**November 30-December 3, 2017**

Thursday, November 30	
Before 5:00 pm	Arrivals, tours, leisure on your own
1:00 – 3:30 pm	Registration (outside Trelawny Room)
3:30 – 5:00 pm	ACDP Council Meeting (NOTE: for ACDP officers only) (Trelawny Room)
5:00 – 6:00 pm	New Chairs Orientation with ACDP Presidents (Trelawny Room)
6:00 – 7:00 pm	Reception* (Wedding Gazebo)
7:00 – 8:30 pm	Dinner
8:30 – 9:30 pm	<b><i>Distinguished Service Award Lecture:</i></b> <b><i>Basic and Clinical Physiology: A Team Approach</i></b> <b><i>Hershel Raff, Ph.D.</i></b> <i>Medical College of Wisconsin/ Aurora St. Luke's Med. Ctr., Aurora Res. Inst.</i> (Trelawny Room)
Friday, December 1	
7:00 – 8:00 am	Breakfast
8:00 – 8:15 am	<b><i>Welcome and Introductions</i></b> (Trelawny Room)
8:15 – 9:15 am	<b><i>New Chair Lecture: Estrogen Receptor <math>\beta</math> and the Aging Brain: Towards a Molecular Rationale for Hormone Replacement Therapy</i></b> <b><i>Toni Pak, Ph.D., Loyola University Stritch School of Medicine</i></b>
9:15 – 9:45 am	<b><i>Business meeting I</i></b> Financial report, CFAS report, nominations of officers
9:45 – 10:15 am	Coffee Break
10:15 – 11:15 am	<b><i>Washington Update:</i></b> <b><i>Assessing Support for Science Funding in the New Congress</i></b> <b><i>Jennifer Zeitzer, FASEB</i></b>
11:15 am – noon	<b><i>Workshop 1: Funding Physiology – Financial models of basic science departments</i></b>
Noon – 12:15 pm	ACDP Council meeting (NOTE: for ACDP officers only)
12:15 – 1:30 pm	Lunch
1:30 – 8:00 pm	Afternoon and dinner on your own
8:00 – 9:00 pm	<b><i>Guyton Award Lecture:</i></b> <b><i>Sarcomere Signaling and Guyton's Analysis of Cardiac Output Regulation</i></b> <b><i>John Solaro, Ph.D.</i></b> <i>University of Illinois at Chicago</i>
9:00 – 10:00 pm	<b><i>Martin Frank: A Career to Remember...Service to the Discipline of Physiology</i></b> <b><i>Irving Zucker, Ph.D., University of Nebraska Medical Center</i></b>

**\*ACDP-registered attendees and ACDP-registered guests only.**

<b>Saturday, December 2</b>	
7:00 – 8:00 am	Breakfast
8:00 – 8:30 am	<b><i>APS at a Time of Transition</i></b> <b><i>Martin Frank, Ph.D., American Physiological Society</i></b>
8:30 – 9:30 am	<b><i>Workshop 2: Teaching Physiology – Medical, other professional, graduate, and undergraduate teaching formats/goals/efficacy</i></b>
9:30 – 10:00 am	Coffee Break
10:00 – 11:00 am	<b><i>Workshop 3: Defining Physiology: A discussion of discipline</i></b>
11:00 – 11:30 am	<b><i>Workshop 4: Defining the future: A meeting wrap-up discussion of how we might drive the research and teaching agenda at all levels</i></b>
11:30 – noon	<b><i>Business Meeting II</i></b> Election of officers, 2018 meeting information
Noon – 6:00 pm	Lunch and afternoon on your own
5:30 – 6:00 pm	Cocktails* (West Lawn)
6:00 – 8:00 pm	Meeting Banquet* (West Lawn)
<b>Sunday, December 3</b>	
All Day	Tours, leisure, and departures on your own

**\*ACDP-registered attendees and ACDP-registered guests only.**



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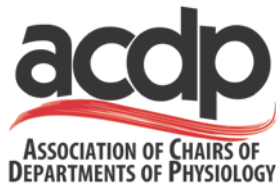
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***Basic and Clinical Physiology: A Team Approach***

*Distinguished Service Award Lecture*

**Hershel Raff, Ph.D., F.A.A.A.S., F.A.P.S.**

Professor of Medicine, Surgery, & Physiology, Medical School  
Medical College of Wisconsin

Professor, Pharmacy School, Medical College of Wisconsin

Director - Endocrine Research Laboratory

Aurora St. Luke's Medical Center, Aurora Research Institute

***Estrogen Receptor  $\beta$  and the Aging Brain:  
Towards a Molecular Rationale for Hormone Replacement Therapy***

New chair - **Toni R. Pak, Ph.D.**

Professor and Interim Chair, Department of Cell and Molecular Physiology  
Loyola University Stritch School of Medicine

***Washington Update: Assessing Support for Science Funding  
in the New Congress***

**Jennifer Zeitzer**

Deputy Director, Office of Public Affairs

Director of Legislative Relations

Federation of American Societies for Experimental Biology (FASEB)

***Sarcomere Signaling  
and Guyton's Analysis of Cardiac Output Regulation***

*Arthur C. Guyton Distinguished Lectureship Award Lecture*

**R. John Solaro, Ph.D.**

Distinguished University Professor  
Director, Center for Cardiovascular Research  
Department of Physiology and Biophysics  
University of Illinois at Chicago

***Martin Frank: A Career to Remember...Service to the Discipline of  
Physiology***

**Irving H. Zucker, Ph.D., F.A.H.A., F.A.P.S..**

Theodore F. Hubbard Professor of Cardiovascular Research  
Chairman, Cellular and Integrative Physiology  
University of Nebraska Medical Center

***APS at a Time of Transition***

**Martin Frank, Ph.D.**

Executive Director  
American Physiological Society



***2017 Distinguished Service Awardee***

**Hershel Raff, Ph.D., F.A.A.A.S., F.A.P.S.**

Professor of Medicine, Surgery, & Physiology,  
Medical School  
Medical College of Wisconsin  
Professor, Pharmacy School  
Medical College of Wisconsin  
Director - Endocrine Research Laboratory  
Aurora St. Luke's Medical Center,  
Aurora Research Institute

**Hershel Raff** received a BA from Union College in Schenectady NY where he majored in Music (but took a lot of science courses). He received a PhD in Environmental Physiology in the laboratory of Robert Fitzgerald at the Bloomberg School of Public Health at the Johns Hopkins University studying the endocrine adaptations to hypoxia. He did post-doctoral training at UCSF in the laboratory of Mary Dallman where he continued studies of the endocrine adaptations to hypoxia. He moved to the Medical College of Wisconsin and Aurora St. Luke's Medical Center/Aurora Research Institute in 1983.

He is currently Professor of Medicine, Surgery, and Physiology in the Medical School and Professor in the Pharmacy School at MCW and Director of the Endocrine Research Laboratory at Aurora St. Luke's Medical Center/Aurora Research Institute. His research focuses on the development of the endocrine responses to environmental stressors and on the diagnosis and differential diagnosis of pituitary-adrenal diseases.

He has been in leadership positions in the American Physiological Society where he was Chair of the Publications Committee and the Endocrine Society where he served as Secretary-Treasurer and Council member.

He teaches endocrine physiology to the first year medical, graduate and pharmacy students, and is course director of the integrated Endocrinology/Reproduction Course for the second year medical students.

He was an inaugural inductee in the MCW Society of Teaching Scholars and received the MCW Beckman Basic Science Teaching Award four times. He is a co-author of three textbooks: *Vander's Human Physiology* (15<sup>th</sup> Edition in preparation), *Physiology Secrets*, and *Medical Physiology: A Systems Approach*.





## ACDP Speaker Biosketches

### *2017 Arthur C. Guyton Distinguished Lecturer*



#### **R. John Solaro, Ph.D.**

Distinguished University Professor  
Director, Center for Cardiovascular Research  
Department of Physiology and Biophysics  
University of Illinois at Chicago

**R. John Solaro** was Head of the Department of Physiology and Biophysics at University of Illinois at Chicago (UIC) from 1988 to 2015. He is currently Director of the UIC Center for Cardiovascular Research. He moved to UIC from the University of Cincinnati College of Medicine.

He received the PhD in the Department of Physiology, at University of Pittsburgh School of Medicine in 1971 at which time he immediately moved on to a faculty position at the Medical College of Virginia. His undergraduate degree in Pharmacy was from the University of Cincinnati. In 1975-76 he was a Fellow of the American and British Heart Associations working with Professor S. V. Perry in Birmingham, England. In 1987 he was a Fogarty Fellow working with Professor David Allen at University College London. Solaro was appointed Distinguished University Professor in the University of Illinois System in 1998.

At UIC, Solaro received the University Scholar Award, the Faculty of the Year Award, the Mentor of the Year Award, and the Distinguished Service Award. Solaro was a member of the NIH Physiology study section, and is past Chair of the Skeletal Muscle and Exercise Physiology and the Cardiovascular Sciences study sections. He currently serves as

Editor-in-Chief of the Journal of Molecular and Cellular Cardiology. He is past Associate Editor of the American Journal of Physiology (Heart) and served on the editorial boards of *Circulation Research*, the *Journal of Clinical Investigation*, and the *Journal of Biological Chemistry*.

The data from the Solaro lab provided seminal information on the now accepted idea that signals to and from sarcomeric proteins are significantly involved in the control of cardiac dynamics and output. The idea that sarcomere length and strain provide a source of mechano-transduction is a dominant theme in the laboratory. Linkage of common cardiomyopathies to mutations in sarcomere proteins provided a strong underpinning for the further investigation of how a specific change at the level of the sarcomeres can induce adaptive and maladaptive cardiac remodeling. Current translational studies focus on prevention and reversal of familial cardiomyopathies by therapeutic approaches involving modification of sarcomere mechano-signaling via biased ligands at the AT1R, sphingolipid signaling, and by agents directly affecting sarcomere activation and de-activation. Dr. Solaro has published over 380 peer reviewed papers, and his work has been continually funded by the National Institutes of Health since 1977.

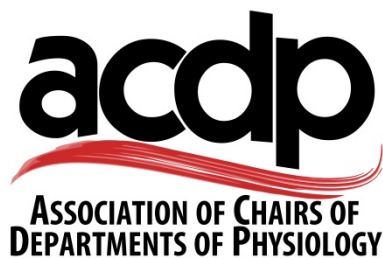


**Toni R. Pak, Ph.D.**

Professor and Interim Chair  
Department of Cell and Molecular  
Physiology  
Loyola University Stritch School of  
Medicine

**Toni R. Pak** received a Master's degree in secondary science Education (1997) and a PhD in Neuroscience (2002) from the University of Colorado at Boulder. Her graduate studies were directed by Drs. Pei-San Tsai and G. Robert Lynch, where she investigated the role of estrogens in male pubertal development. In 2003, she joined the laboratory of Dr. Robert Handa as a postdoctoral fellow. In Dr. Handa's lab, she received an individual NIH NRSA F32 fellowship to study the molecular signaling pathways of estrogen receptor beta (ER $\beta$ ) splice variants in the adolescent brain. In January 2007, Dr. Pak joined Loyola University Chicago, Stritch School of Medicine as an Assistant Professor. She was promoted to Associate Professor with tenure after 4 years and currently holds the rank of Professor and acting Chair of the Department of Cell and Molecular Physiology.

Her work has been continuously funded by NIH to study the molecular basis for changes in nuclear receptor signaling patterns in the brain that are observed under varying cellular microenvironments throughout the lifespan. Specifically, her research has elucidated molecular mechanisms mediating nuclear receptor signaling pathways during pubertal development and menopause in both the reproductive (HPG) and stress (HPA) neuroendocrine axes.



## ACDP Speaker Biosketches



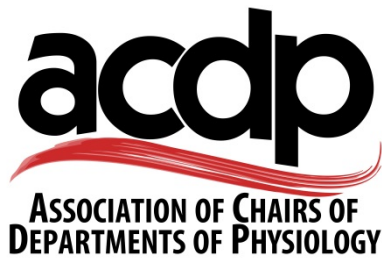
### Jennifer Zeitzer

Deputy Director, Office of Public Affairs  
Director of Legislative Relations  
Federation of American Societies  
for Experimental Biology (FASEB)

**Jennifer Zeitzer** has served as the Director of Legislative Relations at the Federation of American Societies for Experimental Biology (FASEB) since October 2008, and was recently appointed the Deputy Director of FASEB's Office of Public Affairs. In this role, she directs the FASEB Capitol Hill Office, represents FASEB on Capitol Hill, manages FASEB's communications with the U.S. Congress, and develops legislative strategies related to issues involving funding for the National Institutes of Health and other federal science agencies. She also coordinates FASEB's advocacy efforts with other partners in the biomedical and scientific research community and organizes the annual FASEB Capitol Hill Day.

Ms. Zeitzer served two terms on the Coalition for Health Funding Board of Directors from 2011-2015. She is also a member of the Executive Committee of the Friends of VA Medical Care and Health Research (FOVA) Coalition and serves on the Steering Committee of the Ad Hoc Group for Medical Research. Her areas of expertise include the federal budget and appropriations process, IRS regulations concerning lobbying by non-profit organizations, and grassroots advocacy for non-profits.

Prior to joining FASEB, Jennifer was at the Alzheimer's Association for 13 years where she served in various capacities, including as the Director of Congressional Relations. While at the Alzheimer's Association, Jennifer led the organization's efforts in support of federal funding for biomedical research. In addition, Jennifer served as chair of the National Health Council Government Relations Affinity Group from October 2005 – October 2006. Jennifer is a member of the National Academy of Social Insurance and has a bachelor's degree in Political Science from the Pennsylvania State University.



## ACDP Speaker Biosketches



### Irving H. Zucker, Ph.D., F.A.H.A., F.A.P.S.

Theodore F. Hubbard Professor  
of Cardiovascular Research  
Chairman, Cellular & Integrative Physiology  
University of Nebraska Medical Center

**Irving Zucker** is the Theodore F. Hubbard Professor of Cardiovascular Research and Chairman of the Department of Cellular and Integrative Physiology at the University of Nebraska Medical Center in Omaha, Nebraska. He has been Chairman since 1989.

Dr. Zucker received his Ph.D. from New York Medical College in 1972. He continued his post doctoral training at the University of Nebraska Medical Center where he became a faculty member in 1973.

Dr. Zucker has been involved in studies related to the neural regulation of cardiovascular function over the past 41 years. His studies have revolved around cardiovascular reflex control of sympathetic nerve activity in animal models of chronic heart failure. These investigations focus on the role of central mediators of sympathetic nerve activity such as angiotensin II, nitric oxide and oxidative stress. Dr. Zucker has published over 230 papers in this field and this work has been continuously funded by the National Institutes of Health and the American Heart Association. He is the PI of a Program Project currently in its 18<sup>th</sup> year of funding.

He has been the recipient of a MERIT Award from the NHLBI, an Established Investigatorship from the American Heart Association, the Wiggers Award from the Cardiovascular Section of the American Physiological Society and the Carl Ludwig Award from the Neural Control and Autonomic Regulation Section of the American Physiological Society. In 1993, he received the Outstanding Research and Creative Activity Award from the University of Nebraska. He serves on the editorial boards of 9 journals.

In addition to his research, Dr. Zucker has been and is currently active in administrative activities for the American Physiological Society and the American Heart Association. He was a member of the National Research Committee of the American Heart Association. He is currently Editor-In-Chief of the *American Journal of Physiology: Heart and Circulatory Physiology*. He is a Past-President of the Association of Chairs of Departments of Physiology and a Past-President of the American Physiological Society.



**Martin Frank, Ph.D.**

Executive Director

The American Physiological Society

**Martin Frank** received his Ph.D. in Physiology and Biophysics from the University of Illinois, Urbana, in 1973 working under Dr. William W. Sleator. He served as a research associate in the Cellular Physiology Laboratory, Michigan Cancer Foundation, Detroit, and in the Department of Pharmacology and Toxicology, Michigan State University, East Lansing. In 1975, he joined the Department of Physiology, George Washington University School of Medicine, Washington, DC, as an assistant professor. From 1978-1985, he served as the Executive Secretary, Physiology Study Section, Division of Research Grants, National Institutes of Health, Bethesda, MD. While at NIH he set up his own personal professional development program, working with various directors in the NIH institutes. From 1983-1985, he was a member of the Senior Executive Service Candidate Development Program, Department of Health and Human Services, Washington, D.C. As part of the program, he served as a policy analyst in the Office of the Assistant Secretary of Health, DHHS. In 1985, Frank accepted his current position as the Executive Director of the American Physiological Society, Bethesda, MD.

The American Physiological Society is a not-for-profit association devoted to fostering education, scientific research, and dissemination of information in the physiological sciences through its meetings and publications. The Society was founded in 1887 with 28 members and now has over 10,500 members. Frank manages a staff of 82 with an annual budget of \$20 million.

In 2004, Frank accepted a Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring on behalf of the Society for its extensive programs to increase the diversity of the discipline. Frank was also the recipient of the 2001 Distinguished Alumni Award from his academic department at the University of Illinois, Urbana. In 2004,

he helped found the Washington DC Principles Coalition for Free Access to Science, a Coalition that represents approximately 70 not-for-profit society and university press publishers.



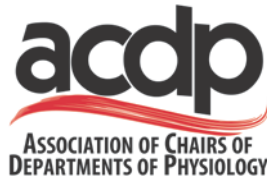


**AGENDA**  
**ACDP Business Meeting I**

**(General membership)**

**December 1, 2017**

- I. Call to order**
- II. Approval of 2016 draft meeting minutes**
- III. Call for names for 2018 Guyton Award Lectureship**  
Submit nominations to Gustavo Blanco, Chris Hardin or Janice Urban
- IV. Call for names for 2018 Distinguished Service Awardee**  
Submit nominations to Janice Urban
- V. Call for nominations for officer positions (President, Councilors, CFAS Representative)**
- VI. Treasurer's Report (Mangiarua)**
- VII. CFAS Update (Webb/Delamere)**
- VIII. 2017 David S. Bruce Awards for Excellence in Undergraduate Research – supported in part by ACDP (3-year agreement for 2016-2018)**
- IX. New Business**



**Association of Chairs of Departments of Physiology  
Leadership Retreat  
Cabo San Lucas, Mexico  
December 5 – 11, 2016**

**ACDP Business Meeting I  
Minutes**

**I. Call to Order**

The Business Meeting was convened by President T. Richard Nichols at 8:56 am on December 9, 2016.

**II. Approval of 2015 Draft Meeting Minutes**

The minutes from the 2015 Business Meetings were unanimously approved as submitted.

**III. Call for names for 2017 Guyton Award Lectureship**

Nichols requested nominations from the membership for the 2017 Arthur C. Guyton, Jr. Distinguished Award Lectureship. Any nominations should be sent to President-elect Charles Wood or second-year Councilors Edward Morrison and Marlene Wilson for consideration.

**IV. Call for names for 2017 Distinguished Service Awardee**

Nichols also requested that any nominations for the 2017 ACDP Distinguished Service Award be submitted to Wood for his consideration.

**V. Call for Nominations for Officer Positions**

A call was made for nominations for President-elect, Secretary-Treasurer and two open Councilor position. The membership was reminded that the nominees for President need to have previously served on Council as either Councilors or Secretary-Treasurer. The deadline for nominations is Saturday by 10:00 am.

**VI. Financial Report**

The financial report was presented by Secretary-Treasurer Elsa Mangiarua, which compared the 2016 year-to-date budget numbers (as of 9/30/16) compared with 2015 at the same point in time. Mangiarua noted that ACDP remains in good shape financially. At this point in the year, the budget is showing a loss of \$2,800. Meeting costs again are not included yet because the travel agency was used. Membership dues are down by \$6,000 but several payments have come in since the report so that number will be less. Nothing was done differently this year other than using the new ACDP Connect to send out the first two notices. This year it will only be used to send the first

and direct email will be used for the rest. Travel expenses were down as the President-elect did not do a site visit for the 2017 meeting location. However, he has been encouraged to do so and has agreed to visit in the new year. Under Professional Fees, there is a charge of almost \$3,000 which was not charged at this point in time in 2015. That is for Lowy's salary, which is invoiced monthly. Previously it was funds for APS services, which was processed only once per year, at the end of the year. So it will be equaled out at the end-of-year budget. Therefore, all things considered, the budget shows no change or a slight increase in funds.

## **VII. CFAS Update**

R. Clinton Webb and Nick Delamere are the current ACDP representatives to the Council of Faculty and Academic Societies (CFAS). Gary Sieck is one of the two APS representatives, along with Mike Levitzky. Webb reminded the group that CFAS was created in July 2013 and was formerly known as the Council of Academic Societies until it was opened to include two representatives from each of the 150 medical schools as appointed by the Deans. This was to ensure that faculty would be represented directly as initially envisioned. One of the faculty representatives is supposed to be a senior faculty member (professor, chair) and the second a newer faculty member within 10 years of appointment. Most societies, ACDP included, remain concerned about the dilution of the societies' voices. The other two Councils are the Councils of Deans and of Administrators.

Information on this year's spring meeting was distributed in the Leadership Retreat program. Both Webb and Delamere attended that meeting as it's a smaller meeting with less of a clinical focus. None of the three attended the large general fall meeting. Webb reported that the meeting included interest groups for the first half-day, such as research, departmental issues, etc. Unfortunately, it appears that graduate and post-graduate programs are not well represented in the CFAS compared with residence programs. There was quite a focus on mentoring and residencies in the program. It appears as though most Deans continue to appoint clinical people to the faculty slots. Webb encouraged everyone to see if their institution has representatives and if not, consider volunteering themselves or someone from their department to ensure basic science representation.

The next CFAS meeting is scheduled for spring 2017. Information on that meeting will be reported to the ACDP membership via email and at the ACDP meeting scheduled for Experimental Biology.

## **VIII. David S. Bruce Awards for Excellence in Undergraduate Research**

Lowy reminded the members that last year ACDP approved providing support for the APS David Bruce Undergraduate Awards at a sum of \$2,000 for another 3 years (2016-2018). This support began in 2012. Because of that support, additional awards were given in 2016. A total of 30 Outstanding Abstract Awards were given and from those, 15 Excellence in Undergraduate Research Awards were awarded based on poster

presentations at EB. The Undergraduate Poster session then featured those awardees and about 100 other undergraduates presenting their research. ACDP members were urged to remind any faculty attending EB to attend that session and support the undergraduates. This year's awardees and host researchers are listed in the meeting program book.

**IX. New Business**

There was no new business.

The meeting was adjourned until the following day at 11:30 am.

**ACDP Business Meeting II  
Minutes**

**I. Call to re-convene**

Nichols reconvened the business meeting at 11:20 pm on December 10, 2016.

**II. Election of Officers**

The slate of nominees for President-elect, Secretary-Treasurer and Councilors was announced and the membership voted by secret ballot. Janice H. Urban (Rosalind Franklin University of Medicine and Science, Chicago Medical School) was elected President-elect. Elsa I. Mangiarua (JCE School of Medicine, Marshall University) was re-elected as Secretary-Treasurer for another 3-year term. V. Gustavo Blanco (Kansas University Medical Center) and Christopher Hardin (University of Missouri) were elected Councilors with terms ending in 2019.

**III. 2017 ACDP Meeting**

Charlie Wood, ACDP President-elect, announced that the 2017 ACDP meeting will be held November 30-December 3, 2017 at the Hilton Rose Hall Resort and Spa in Montego Bay, Jamaica. He gave a slide presentation about the meeting site. He plans to conduct a site visit in January 2017.

**IV. Adjournment**

The meeting was adjourned at 11:50 am.

Respectfully submitted,

Elsa Mangiarua  
Secretary-Treasurer



**Association of Chairs of Departments of Physiology**  
**Arthur C. Guyton Distinguished Lectureship Award**

The Arthur C. Guyton Distinguished Lectureship Award was instituted in 2006 to recognize outstanding and cutting edge research in physiology or related areas. Awardees are invited to attend the ACDP fall meeting and present a seminar on their research.

Awardees are selected by the President in conjunction with members of Council based on membership recommendations. They receive travel, hotel, food, complimentary registration and an honorarium of \$1,000.

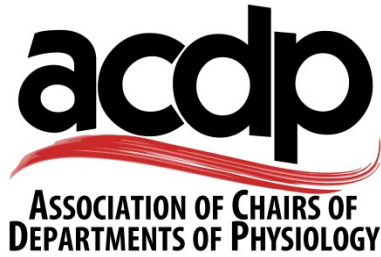
The Award was named for the late Arthur C. Guyton, University of Mississippi, a well-known researcher, educator, author, and long-time department chair. He was the only person to be awarded both the ACDP Outstanding Teaching Award and the ACDP Distinguished Service Award.

**Awardees:**

- 2017 R. John Solaro, Ph.D.**  
University of Illinois at Chicago
- 2016 Monika R. Fleshner, Ph.D.**  
University of Colorado at Boulder
- 2015 Leslie Leinwand, Ph.D.**  
University of Colorado at Boulder
- 2014 Gordon S. Mitchell, Ph.D.**  
University of Florida (formerly University of Wisconsin, Madison)
- 2013 José Jalife, M.D.**  
University of Michigan
- 2012 Irena Levitan, Ph.D.**  
University of Illinois at Chicago
- 2011 Paul A. Welling, M.D.**  
University of Maryland
- 2010 Ferid Murad, M.D., Ph.D.**  
University of Texas, Houston
- 2009 Helen H. Hobbs, M.D.**  
University of Texas Southwestern Medical Center

**2008 Eric Olson, Ph.D.**  
University of Texas Southwestern Medical Center

**2007 H. Lee Sweeney, Ph.D.**  
University of Pennsylvania



**Association of Chairs of Departments of Physiology**  
**Distinguished Service Award**

The ACDP Distinguished Service Award is presented annually to someone who has given long and illustrious service to ACDP, physiology as a discipline, and/or the field of science in general.

The awardee is selected by the President in consultation with ACDP Council. Awardees receive all-expenses paid trip to the annual ACDP meeting.

The award was formally known as the Outstanding Teaching Award but in 1978 its focus and name were expanded to the current Distinguished Service Award.

**Distinguished Service Awardees:**

- 2017 Hershel Raff, Ph.D.**  
Medical College of Wisconsin/Aurora St. Luke's Medical Center
- 2016 Susan Barman, Ph.D.**  
Michigan State University
- 2015 John E. Hall, Ph.D.**  
University of Mississippi Medical Center
- 2014 Michael J. Joyner, M.D.**  
Mayo Clinic
- 2013 Allen W. Cowley, Jr., Ph.D.**  
Medical College of Wisconsin
- 2012 Ernest M. Wright, Ph.D., D.Sc.**  
University of California, Los Angeles
- 2011 R. John Solaro, Ph.D.**  
University of Illinois, Chicago
- 2010 John A. Williams, M.D., Ph.D.**  
University of Michigan
- 2009 Phyllis M. Wise, Ph.D.**  
University of Washington
- 2008 Irving H. Zucker, Ph.D.**  
University of Nebraska Medical Center

- 2007 William H. Dantzler, M.D., Ph.D.**  
University of Arizona
- 2006 Antonio Scarpa, M.D., Ph.D.**  
National Institutes of Health
- 2005 No awardee** – joint meeting with AAMC
- 2004 Daniel C. Tosteson, M.D.**  
Harvard Medical School
- 2003 L. Gabriel Navar, Ph.D.**  
Tulane University
- 2002 Gabor Kaley, Ph.D.**  
New York Medical College
- 2001 Mordecai P. Blaustein, M.D.**  
University of Maryland School of Medicine
- 2000 Paul C. Johnson, Ph.D.**  
University of Arizona School of Medicine
- 1999 F. Norman Briggs, Ph.D.**  
Medical College of Virginia
- 1998 Norman R. Alpert, Ph.D.**  
University of Vermont College of Medicine
- 1997 Carlton C. Hunt, M.D.**  
Washington University School of Medicine
- 1996 Arthur C. Guyton, M.D.**  
University of Mississippi Medical Center
- 1995 Aubrey E. Taylor, Ph.D.**  
University of South Alabama College of Medicine
- 1994 Stanley G. Schultz, M.D.**  
University of Texas, Houston Medical School
- 1993 Edward J. Masoro, Ph.D.**  
University of Texas Health Science Center at San Antonio
- 1992 Gerhard H. Giebisch, M.D.**  
Yale University
- 1991 None**
- 1990 John T. Shepherd, M.D.**  
Mayo Clinic & Foundation
- 1989 Walter C. Randall, Ph.D.**  
Loyola University Stritch School of Medicine



- 1988 William F. Ganong, M.D.**  
University of California, San Francisco
- 1987 Howard E. Morgan, M.D.**  
Pennsylvania State University Milton S. Hershey Medical Center
- 1986 Horace Davenport, Ph.D., Sc.D.**  
University of Michigan Medical School
- 1985 A. Clifford Barger, M.D.**  
Harvard University Medical School
- 1984 Harry D. Patton, M.D., Ph.D.**  
University of Washington School of Medicine
- 1983 Ernst Knobil, Ph.D.**  
University of Texas Medical School
- 1982 Hermann Rahn, Ph.D.**  
University of Buffalo
- 1981 Robert Berliner, M.D.**  
Yale University School of Medicine
- 1980 George Sayers, Ph.D.**  
Case Western Reserve University
- 1979 Ewald E. Seikurt, Ph.D.**  
Indiana University School of Medicine
- 1978 William F. Ganong, M.D.**  
University of California, San Francisco

### **Outstanding Teaching Awardees**

- 1977 C. Ladd Prosser, Ph.D.**  
University of Illinois, Urbana
- 1976 Robert M. Berne, M.D.**  
Western Reserve University
- 1975 Arthur C. Guyton, M.D.**  
University of Mississippi Medical Center
- 1974 Julius H. Comroe, M.D.**  
University of California, San Francisco
- 1973 Maurice Visscher, M.D., Ph.D.**  
University of Minnesota
- 1972 Robert F. Pitts, M.D., Ph.D.**  
Cornell University

*Association of Chairs of Departments of Physiology  
Revenue and Expenses and Changes in Net Assets  
Year to Date as of September 30, 2017*

	<b>2017 YTD</b>			<b>Totals at 9/30/16</b>	<b>Incr/(Decr)</b>
	<b>Annual Meeting</b>	<b>General</b>	<b>Totals at 9/30/17</b>		
<b>Revenue:</b>					
Dues Income	\$ -	\$ 21,250	\$ 21,250	\$ 20,500	\$ 750
Contributions	-	1,000	1,000	-	1,000
Interest Income	-	20	20	26	(6)
<b>Total Revenue</b>	-	22,270	22,270	20,526	1,744
<b>Expenses:</b>					
Professional Fees	-	2,917	2,917	2,950	(33)
Supplies	-	40	40	212	(172)
Telephone	-	140	140	280	(140)
Credit Card Processing Fees	-	499	499	471	28
Travel	-	8,166	8,166	4,495	3,671
Dues Expense - Associations	-	550	550	540	10
Awards	-	4,000	4,000	2,100	1,900
<b>Total Expenses</b>	-	16,312	16,312	11,048	5,264
<b>Net Revenue/(Expenses)</b>	-	5,958	5,958	9,478	(3,520)
<b>Net Assets, Beginning of Year</b>			80,982	75,260	5,722
<b>Net Assets, End of Period</b>			<u>\$ 86,939</u>	<u>\$ 84,738</u>	<u>\$ 2,201</u>

## **2017 Council of Faculty and Academic Societies (CFAS) Spring Meeting, March 9 – 11, Orlando FL**

### **ACDP representatives: Clinton Webb and Nick Delamere**

The CFAS Spring Meeting was co-convened with the Organization of Resident representatives. The tone of the meeting was informed by an opening plenary session Faculty of Tomorrow's Academic Medical Center. The premise was pressure being placed on faculty from all directions and the importance of individuals not being distracted from their primary role. A plenary session later in the meeting, Academic Health Center Finance 101, included presentation of different funds flow models. It included an interesting look at the how and why Vanderbilt University Medical Center introduced a novel organizational structure that separates out the financial operations of basic science departments and aligns them with main campus procedures.

The program included useful sessions on (A) The Role of Discovery Science in the Biomedical Research Center (B) The Place for PhDs in Medical Schools of Tomorrow, and (C) Communicating The Value of Discover Research: How and Why We Do It. Much of the conversation centered on today's challenging funding climate causing increased need for effective promotion of your research, and the critical importance of explaining findings in terms the layperson can understand. Addressing the teaching opportunities for Ph.D, faculty, the group discussed the continuing impact of the team-taught medical curriculum and the trend toward shortening the pre-clinical part of the curriculum. To respond to these trends basic science faculty were encouraged to explore new opportunities for teaching undergraduate and graduate students. The conference program included a session on How to Understand, Navigate, & Be Part of Your Academic Medical Center's Governance. Basically, this was a rallying cry to get involved in decision-making or someone else will. There also was a well-attended session on the dilemma of opioids, a situation that is having an increasing impact at multiple levels.

From AAMC:

### **Learn Serve Lead 2017 Recap and Plenary Session Videos Are Now Available!**

The AAMC shared live coverage of many aspects of Learn Serve Lead 2017 via *AAMCNews*. [Click here](#) to read more.

Videos of the plenary sessions are now available [online](#). Recordings of the following plenaries are only available to Learn Serve Lead 2017 attendees and AAMC constituents. If you don't have a AAMC login, [you can create one here](#). Questions? Contact [learnservelead@aamc.org](mailto:learnservelead@aamc.org).

- The Road to Character, David Brooks
- The Future of Medicine in Three Vignettes, Siddhartha Mukherjee, MD

- Trading Places, Anna Quindlen with Lucky Jain, MD, Sherry Wren, MD, David Carbone, MD and Feranmi Okanlami, MD
- Leadership Plenary with Darrell G. Kirch, MD and Marsha D. Rappley, MD (does not require log in and is publicly available).

Take a look at our [Facebook photo gallery](#) from the meeting. The gallery includes the AAMC Awards Dinner.

# CFAS Rep Update March 2017

## 2017 CFAS-ORR Spring Meeting

The Role of CFAS Societies in Appointing Reps to ORR

CFAS Rep Profiles: Paul Aravich, PhD, and Alison Holmes, MD, MPH

CFAS-Member Society Profile: American Association of Anatomists (AAA)

CFAS Rep Paul Gordon's Bike Ride Listening Tour of Americans' Views on the ACA

How to Use Your Free Subscription to Academic Medicine

Faculty Salary Data

Our Guiding Principles

NIH Communication Plan

## 2017 CFAS-ORR Spring Meeting



This year's CFAS-ORR Joint Professional Development Conference was our most ambitious in terms of the content, the number of sessions, and the number of speakers. Attendees had robust discussions about topics ranging from wellness and well-being to the best ways to tackle the opioid epidemic to how to navigate your institution's governance to a breakfast table topic conversation on writing letters to Congress. We also spent a lot of time in plenary and breakout sessions discussing the role of basic science in today's academic health center. A [summary PPT](#) of the meeting is available. Slides from the breakout sessions are accessible through the AAMC meetings app and from the meetings page on [aamc.org](http://aamc.org). To access presentations from the meeting, visit <https://www.aamc.org/meetings>, click on "View presentations" under the heading, "Past Meeting and Presentations" on the left side of the page, and click the title of the meeting. Once on the meeting page, hover the mouse over the "Participants List and Presentations" tab on the far right and click on the drop down, "Participants List and Presentations." If you

see a link at the bottom of the page that says, "Already Registered?" click on it and follow the instructions to retrieve your registration confirmation number. After you are signed in using the confirmation number, hover back over the "Participants List and Presentations" tab and click on the "Presentations" drop down. A special thank you to all who attended and contributed to the meeting's success! We hope to see you again next year.

### **The Role of CFAS Societies in Appointing Reps to ORR**

CFAS-member department chair or program director societies that represent the 24 ABMS recognized general specialties are able to appoint resident representatives to the AAMC's Organization of Resident Representatives. Each eligible CFAS society appoints two residents for a staggered two-year term, and the residents are selected democratically by their peers when feasible. The residents must be actively enrolled in a residency or fellowship program at the time of appointment or reappointment, and no two residents appointed by the same society may come from the same residency training program. The presidents of eligible CFAS-member societies receive an ORR appointment solicitation from the AAMC in late spring each year. ORR terms run from July 1 – June 30.

**Barbara A. Horwitz and John M. Horowitz Outstanding Undergraduate Abstract Awards**

<b>Student/Student Institution</b>	<b>Host/Institution</b>	<b>Abstract Title</b>
Jad Aboulhosn University of California, Merced	Rudy M. Ortiz University of California, Merced	Extracting Noise from Electrocardiograms in Real-time to Predict the Onset of Cardiac Arrest
Craig Ballard Colby College	Lisa Joss-Moore University of Utah	Postnatal Growth Restriction Alters Lung Function and Structure in Juvenile Rats
Paige Beuparlant University of Missouri-Columbia	Lakshmi Pulakat University of Missouri-Columbia	Cardiovascular Protective Effects of AT2R Activation by Peptide Drug NP-6A4
Melissa Brix University of Wisconsin-Madison	Marlowe Eldridge University of Wisconsin-Madison	Adolescent Children Born Preterm Have Altered Cardiac Regulation During and Immediately Following Maximal Exercise
Kendal Carter East Carolina University	Ethan Anderson University of Iowa	Kinetics of Neurotransmitter Metabolism by Monoamine Oxidase in Porcine Heart Differs by Location and Is Increased with Obesity/Metabolic Syndrome
Ryan Centanni University of Wisconsin-Madison	Marlowe Eldridge University of Wisconsin-Madison	Aerobic Capacity Limitation in Adolescent Children Born Premature Is Driven by Blunted Cardiac Output Rather Than Activity Level or Strength
Raphael Crum University of Dayton	Carissa Krane University of Dayton	Pravastatin Prevents Venous Shear Stress Dependent Induction of Aquaporin 1 Protein Expression in Human Umbilical Vein Endothelial Cells in vitro
Janine DeBlasi University of South Florida	Dominic P. D'Agostino University of South Florida	Anti-Cancer Effects of Ascorbic Acid and Hyperbaric Oxygen Therapy [ <i>in Vitro</i> ]
Elizabeth Escobar University of Notre Dame	Xiaonan Wang Emory University	The Impact of MicroRNA 23/27 on Muscle Atrophy in Diabetic Mice
Kyle Godwin Drake University	Kimberly Huey Drake University	AICAR Treatment Does Not Prevent Increases in Exercise Capacity or Muscle Heat Shock Protein 25 with Treadmill Training in Mice
Jessica Hampton Dickinson College	R. Alberto Travagli Penn State College of Medicine	Alterations of a Nigro-Vagal Pathway in a Rodent Model of Parkinson's Disease
Drayton Harvey Dartmouth College	Aihua Li Dartmouth Geisel School of Medicine	Impact of Gestational Chronic Intermittent Hypoxia and Hypertension on the Serotonergic System and Autoresuscitation in the Developmental Rat
Kylie Heitman Albion College	Bradley Rabquer Albion College	The Use of Equine Lavender Aromatherapy to Suppress Stress
Joseph Herald University of Kentucky	Analia Loria University of Kentucky	Obesity-Induced Hypertension Is Associated with Increases in Adipose Tissue-Derived Angiotensinogen in Female Mice Exposed to Early Life Stress (ELS)
Pablo Juarez University of California Merced	Rudy M. Ortiz University of California, Merced	Adrenocorticotropin Infusion Stimulates Glucocorticoid-Receptor Mediated Lipolysis in Northern Elephant Seal Pups
Grace Lee Washington University in St. Louis	Sarah K. England Washington University in St. Louis	Novel Genetic Variants in the Oxytocin Receptor Predict Oxytocin Non-Responsiveness in Pregnant Women

Cheyenne Moffatt Beloit College	Kathryn Johnson Beloit College	Insulin Resistance in Horses Varies Throughout the Year and Among Breeds
Stephanie Njemanze University of Mississippi Medical Center	Damian G. Romero University of Mississippi Medical Center	MicroRNA-21 Ablation Exacerbates Aldosterone-Mediated Renal Injury
Matthew Peters University of Iowa	Melissa Bates University of Iowa	Arterial Pulse Wave Velocity Is Increased in Prematurely Born Adults and Rats Given Neonatal Supplemental Oxygen
Nicholas Randall Brigham Young University	Thomas P. Olson Mayo Clinic	The Postexercise Pressor Reflex Is Influenced by Pedal Frequency During Low Intensity Ergometry in Normotensive Healthy Adults
William Reis Emory University	Mitsi Blount Emory University School of Medicine	Inhibition of PDE7 Reduces Inflammatory Response Following Renal Ischemia/Reperfusion Injury
Jessica Resnick Mercer University	Clay E. Pandorf Mercer University	Characterization of Novel lncRNAs Transcribed Near Contractile Protein-Coding Genes During Skeletal Muscle Unloading
Stephanie Simko Hope College	Christopher C. Barney Hope College	Exposure to Homocysteic Acid Early in Postnatal Development Leads to a Mixed Depressive/Manic Behavioral Phenotype and Changes in NMDA Receptor Expression
Hafsa Sirajuddin Benedictine University	Jayashree Sarathy Benedictine University	Reactive Oxygen Species (ROS) Play a Key Role in Bile Acid (BA)-Induced Barrier Dysfunction and Alters the Leak Function of Tight Junctions (TJ) in Human Colon Carcinoma T84 Cells
Lauren Vildberg University of Wisconsin-Madison	Marlowe Eldridge University of Wisconsin-Madison	Sex Differences in Global and Regional Cardiac Function in Response to Acute Hypoxia
Courtney Vishy Washington University in St. Louis	Deborah Rubin Washington University School of Medicine	Epimorphin Regulates the Mouse Intestinal Stem Cell Niche via the Stromal Microenvironment
Marcus Wagner Ursinus College	Beth A. Bailey Ursinus College	Cardiac Hypertrophy and Myocyte Remodeling Are Exacerbated with Multiple Pregnancies
Samuel Wittman University of Pittsburgh	Bill J. Yates University of Pittsburgh	The Role of the Vestibular Nucleus in the Multimodal Coordination of Balance
Kara Ye Emory University	Jeanie Park Emory University	ESRD Patients Have Altered Pattern of Heart Rate Variability Responses to Graded Lower Body Negative Pressure
Hannah Yoder University of Wisconsin-Madison	Marlowe Eldridge University of Wisconsin-Madison	Increased Activation of M2 Macrophages in 1 Year-Old Rat Lungs Following Neonatal Hyperoxia Exposure



### David S. Bruce Excellence in Undergraduate Research Awards

Student/Student Institution	Host/Institution	Abstract Title
Melissa Brix University of Wisconsin-Madison	Marlowe Eldridge University of Wisconsin-Madison	Adolescent Children Born Preterm Have Altered Cardiac Regulation During and Immediately Following Maximal Exercise
Kendal Carter East Carolina University	Ethan Anderson University of Iowa	Kinetics of Neurotransmitter Metabolism by Monoamine Oxidase in Porcine Heart Differs by Location and Is Increased with Obesity/Metabolic Syndrome
Ryan Centanni University of Wisconsin-Madison	Marlowe Eldridge University of Wisconsin-Madison	Aerobic Capacity Limitation in Adolescent Children Born Premature Is Driven by Blunted Cardiac Output Rather Than Activity Level or Strength
Raphael Crum University of Dayton	Carissa Krane University of Dayton	Pravastatin Prevents Venous Shear Stress Dependent Induction of Aquaporin 1 Protein Expression in Human Umbilical Vein Endothelial Cells in vitro
Janine DeBlasi University of South Florida	Dominic P. D'Agostino University of South Florida	Anti-Cancer Effects of Ascorbic Acid and Hyperbaric Oxygen Therapy [ <i>in Vitro</i> ]
Jessica Hampton Dickinson College	R. Alberto Travagli Penn State College of Medicine	Alterations of a Nigro-Vagal Pathway in a Rodent Model of Parkinson's Disease
Drayton Harvey Dartmouth College	Aihua Li Dartmouth Geisel School of Medicine	Impact of Gestational Chronic Intermittent Hypoxia and Hypertension on the Serotonergic System and Autoresuscitation in the Developmental Rat
Pablo Juarez University of California Merced	Rudy M. Ortiz University of California, Merced	Adrenocorticotropin Infusion Stimulates Glucocorticoid-Receptor Mediated Lipolysis in Northern Elephant Seal Pups
Grace Lee Washington University in St. Louis	Sarah K. England Washington University in St. Louis	Novel Genetic Variants in the Oxytocin Receptor Predict Oxytocin Non-Responsiveness in Pregnant Women
William Reis Emory University	Mitsi Blount Emory University School of Medicine	Inhibition of PDE7 Reduces Inflammatory Response Following Renal Ischemia/Reperfusion Injury
Hafsa Sirajuddin Benedictine University	Jayashree Sarathy Benedictine University	Reactive Oxygen Species (ROS) Play a Key Role in Bile Acid (BA)-Induced Barrier Dysfunction and Alters the Leak Function of Tight Junctions (TJ) in Human Colon Carcinoma T84 Cells
Marcus Wagner Ursinus College	Beth A. Bailey Ursinus College	Cardiac Hypertrophy and Myocyte Remodeling Are Exacerbated with Multiple Pregnancies
Samuel Wittman University of Pittsburgh	Bill J. Yates University of Pittsburgh	The Role of the Vestibular Nucleus in the Multimodal Coordination of Balance
Hannah Yoder University of Wisconsin-Madison	Marlowe Eldridge University of Wisconsin-Madison	Increased Activation of M2 Macrophages in 1 Year-Old Rat Lungs Following Neonatal Hyperoxia Exposure



**AGENDA**  
**ACDP Business Meeting II**

**(General membership)**

**December 2, 2017**

- I. Call to re-convene**
- II. Election of 2016-2017 Officers**
- III. 2017 ACDP Meeting Plans (Janice Urban)**
- IV. Adjournment**



(12/14/16)

## ACDP 2016-2017 Officers

### **President (Term ends 2017)**

Charles E. Wood, Ph.D.  
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### **Past President (Term ends 2017)**

T. Richard Nichols, Ph.D.  
School of Biological Sciences  
Georgia Institute of Technology  
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Email: [trn@gatech.edu](mailto:trn@gatech.edu)

### **Councilor (Term ends 2019)**

V. Gustavo Blanco, M.D., Ph.D.  
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Kansas City, KS 66061  
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Email: [gblanco@kumc.edu](mailto:gblanco@kumc.edu)  
Dept. web site: [kumc.edu/physiology/](http://kumc.edu/physiology/)

### **President-elect (Term ends 2017)**

Janice H. Urban, Ph.D.  
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Rosalind Franklin Univ. of Med. & Sci.  
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### **Secretary-Treasurer (Term ends 2019)**

Elsa I. Mangiarua, Ph.D.  
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### **Councilor (Term ends 2017)**

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## **ACDP Officers (Cont'd)**

### **Councilor (Term ends 2019)**

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### **Councilor (Term ends 2018)**

Edward E. Morrison, Ph.D.  
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& Pharmacology  
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### **CAS Representative (Term ends 2017)**

R. Clinton Webb, Ph.D.  
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### **Executive Assistant**

Melinda E. Lowy  
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### **Councilor (Term ends 2017)**

Kebreten F. Manaye, M.D.  
Dept. of Physiology and Biophysics  
Howard Univ. College of Medicine  
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Washington, DC 20059  
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### **Councilor (Term ends 2018)**

Marlene A. Wilson, Ph.D.  
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Columbia, SC 29208  
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### **CAS Representative (Term ends 2018)**

Nicholas A. Delamere, Ph.D.  
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## Past Officers of ACDP

### ACDP Presidents

**3-yr term: President-elect, President, Past President**

Year	Name	Institution	Early Term Ending
2017-18	Janice H. Urban, Ph.D.	Rosalind Franklin Univ. of Med. & Sci./Chicago Medical School	
2016-17	Charles E. Wood, Ph.D.	Univ. of Florida Coll. of Med.	
2015-16	T. Richard Nichols, Ph.D.	Georgia Institute of Technology	
2014-15	Michael Sturek, Ph.D.	Indiana Univ.	
2013-14	Nicholas A. Delamere, Ph.D.	Univ. of Arizona	
2013-14	Michael B. Reid, Ph.D.	Univ. of Kentucky	Resigned as President-elect, took position as Dean
2012-13	Muthu Periasamy, Ph.D.	Ohio State Univ.	
2011-12	Marshall (Chip) Montrose, Ph.D.	Univ. of Cincinnati	
2010-11	Gary C. Sieck, Ph.D.	Mayo Med. Sch.	
2009-10	R. Clinton Webb, Ph.D.	Med. Coll. of Georgia	
2008-09	Meredith Bond, Ph.D.	Univ. of Maryland, Baltimore	
2007-08	Nicola C. Partridge, Ph.D.	UMDNJ-RW Johnson Med. Sch.	
2006-07	William S. Spielman, Ph.D.	Michigan State Univ.	
2005-06	Richard N. Bergman, Ph.D.	Univ. of Southern California	
2003-05	Peter M. Cala, Ph.D.	Univ. of California, Davis	
2002-03	Irving H. Zucker, Ph.D.	Univ. of Nebraska	
2001-02	Irving G. Joshua, Ph.D.	Univ. of Louisville	
2001-02	Phyllis M. Wise, Ph.D.	Univ. of Kentucky	Resigned as President-elect, took position as Dean
2000-01	Donald M. Bers, Ph.D.	Loyola Univ.	
1999-2000	William H. Dantzler, M.D., Ph.D.	Univ. of Arizona	
1998-99	R. John Solaro, Ph.D.	Univ. of Illinois at Chicago	
1997-98	Mordecai P. Blaustein, M.D.	Univ. of Maryland	
1996-97	Paul De Weer, M.D., Ph.D.	Univ. of Pennsylvania	
1995-96	L. Gabriel Navar, Ph.D.	Tulane Univ.	
1995-96	Robert D. Foreman, Ph.D.	Univ. of Oklahoma	
1994-95	Antonio Scarpa, M.D., Ph.D.	Case Western Reserve Univ.	
1993-94	Wayne E. Crill, M.D.	Univ. of Washington	
1992-93	Harel Weinstein, D.Sc.	Mount Sinai Sch. of Med.	
1991-92	Donald J. Marsh, M.D.	Brown Univ	
1990-91	Allen W. Cowley, Jr., Ph.D.	Med. Coll. of Wisconsin	
1989-90	Robert B. Gunn, M.D.	Emory Univ.	
1988-89	Donald T. Frazier, Ph.D.	Univ. of Kentucky	
1987-88	M. Ian Phillips, Ph.D., D.Sc.	Univ. of Florida	
1986-87	Stephen H. White, Ph.D.	Univ. of California, Irvine	
1985-86	Stanley G. Schultz, M.D.	Univ. of Texas, Houston, Med. Sch.	
1984-85	George A. Hedge, Ph.D.	West Virginia Univ. Sch. of Med.	Replaced Stephen White who was unable to serve as President

1983-84	Edward J. Masoro, Ph.D.	Univ. of Texas HSC, San Antonio	
1982-83	F. Norman Briggs, Ph.D.	Med. Coll. of Virginia	
1981-82	Franklyn G. Knox, M.D.	Mayo Clinic	
1980-81	Paul C. Johnson, Ph.D.	Univ. of Arizona Sch. of Med,	
1979-80	Jack L. Kostyo, Ph.D.	Univ. of Michigan Med. Sch.	
1978-79	Leonard Share, Ph.D.	Univ. of Tennessee Coll. Med.	
1977-78	Charles R. Park, M.D.	Vanderbilt Univ. Sch. of Med.	
1976-77	W. Francis Ganong, M.D.	Univ. of California, San Francisco	
1975-76	Howard E. Morgan, M.D.	Pennsylvania State Univ.	
1974-75	Norman R. Alpert, Ph.D.	Univ. of Vermont Coll. of Med.	
1973-74	James B. Preston, M.D.	SUNY Upstate Med. Ctr.	Replaced James O. Davis who resigned as President-elect
1972-73	E. B. Brown, Jr., Ph.D.	Univ. of Kansas Med. Ctr.	
1971-72	Ewald E. Selkurt, Ph.D.	Indiana Univ. Sch. of Med.	
1970-71	Robert M. Berne, M.D.	Western Reserve Univ.	
1969-70	Ernst Knobil, Ph.D.	Univ. of Texas Med. Sch.	

**ACDP Secretary-Treasurers**  
**3-yr term; renewable terms**

<b>Year</b>	<b>Name</b>	<b>Institution</b>	<b>Early Term Ending</b>
2013-19	Elsa I. Mangiarua, Ph.D.	Marshall Univ. Sch. of Med.	
2010-13	Susan DeMesquita, Ph.D.	American Univ. of the Caribbean	
2007-10	Chris Cheeseman, Ph.D.	Univ. of Alberta	
2004-07	Richard L. Moss, Ph.D.	Univ. of Wisconsin Sch. of Med.	
2002-04	Philip M. Best, Ph.D.	Univ. of Illinois	
1997-2001	Aubrey E. Taylor, Ph.D.	Univ. of South Alabama	
1994-97	R. John Solaro, Ph.D.	Univ. of Illinois at Chicago	
1991-94	Robert D. Foreman, Ph.D.	Univ. of Oklahoma	
1989-91	Douglas G. Stuart, Ph.D.	Univ. of Arizona Coll. of Med.	
1988-89	Allen W. Cowley, Jr., Ph.D.	Med. Coll. of Wisconsin	Elected President-elect
1985-87	Donald T. Frazier, Ph.D.	Univ. of Kentucky	Replacing L. Stone
1984	H. Lowell Stone, Ph.D.	Univ. of Oklahoma Hlth. Sci. Ctr.	Deceased
1981-84	George A. Hedge, Ph.D.	West Virginia Univ. Sch. of Med.	
1980-81	F. Norman Briggs, Ph.D.	Med. Coll. of Virginia	
1976-80	Franklyn G. Knox, M.D.	Mayo Clinic	
1974-76	Leonard Share, Ph.D.	Univ. of Tennessee Coll. of Med.	
1971-74	Howard E. Morgan, M.D.	Pennsylvania State Univ.	
1970-71	E. B. Brown, Jr.	Univ. of Kansas Med. Ctr.	Elected President-elect

## Councillors

**3-yr term; 6 Councillors total; 2 rotate off each year**

<b>Year</b>	<b>Name</b>	<b>Institution</b>	<b>Early Term Ending</b>
2016-19	V. Gustavo Blanco, M.D., Ph.D.	Kansas Univ. Medical Center	
2016-19	Christopher Hardin, Ph.D.	University of Missouri	
2015-18	Edward E. Morrison, Ph.D.	Auburn Univ.	
2015-18	Marlene A. Wilson, Ph.D.	Univ. of South Carolina Sch. of Med.	
2014-17	Kebreten F. Manaye, M.D.	Howard Univ. Coll. of Med.	
2014-17	D. Buck Hales, Ph.D.	Southern Illinois Univ. Sch. of Med.	
2013-16	Janice H. Urban, Ph.D.	Rosalind Franklin Univ. of Med. & Sci./ Chicago Med. Sch.	
2013-16	Pieter P. de Tombe, Ph.D.	Loyola Univ. Chicago Med. Sch.	
2012-15	Chris Cheeseman, Ph.D.	Univ. of Alberta	
2012-15	Joseph M. Metzger, Ph.D.	Univ. of Minnesota	
2011-14	Charles E. Wood, Ph.D.	Univ. of Florida Coll. of Med.	
2010-13	Michael Sturek, Ph.D.	Indiana Univ.	
2010-14	Bishr Omary, M.D., Ph.D.	Univ. of Michigan Med. Sch.	Finishing M. Montrose's term; re-elected to full term
2009-12	Patricia E. Molina, M.D., Ph.D.	Louisiana State Univ. Health Sci. Ctr.	
2009-12	Michael B. Reid, Ph.D.	Univ. of Kentucky	
2008-11	Nicholas A. Delamere, Ph.D.	Univ. of Arizona	
2008-10	Marshall H. Montrose, Ph.D.	Univ. of Cincinnati	Elected President-elect
2008-13	T. Richard Nichols, Ph.D.	Georgia Tech Univ.	Finishing G. Sieck's term; re-elected to full term
2007-10	Steven R. Houser, Ph.D.	Temple Univ. Sch. of Med.	
2007-09	Gary C. Sieck, Ph.D.	Mayo Med. Sch.	Elected President-elect
2006-09	Raymond A. Frizzell, Ph.D.	Univ. of Pittsburgh	
2006-09	Muthu Periasamy, Ph.D.	Ohio State Univ.	
2005-08	Susan L. Hamilton, Ph.D.	Baylor Coll. of Med.	
2005-08	R. Clinton Webb, Ph.D.	Med. Coll. of Georgia	
2004-07	Kenneth D. Philipson, Ph.D.	Univ. of California, Los Angeles	
2004-07	Michael L. Jennings, Ph.D.	Univ. of Arkansas for Med. Science	
2004-05	Meredith Bond, Ph.D.	Univ. of Maryland Sch. of Med.	New Councillor position
2003-06	William S. Spielman, Ph.D.	Michigan State Univ.	
2003-06	Joseph C. Dunbar, Ph.D.	Wayne State Univ. Sch. of Med.	
2002-05	D. Neil Granger, Ph.D.	Louisiana State Univ. Med. Ctr.	
2002-03	Nicola C. Partridge, Ph.D.	UMDNJ-RW Johnson Med. Sch.	Finishing P. Cala's term
2002-04	David C. Dawson, Ph.D.	Oregon Health Sciences Univ.	
2001-02	Peter M. Cala, Ph.D.	Univ. of California, Davis	Elected President-elect
2001-03	Michael L. Jennings, Ph.D.	Univ. of Arkansas for Med. Science	New Councillor position
2001-02	Nicola C. Partridge, Ph.D.	UMDNJ-RW Johnson Med. Sch.	Finishing I. Zucker's term
2001-02	Richard N. Bergman, Ph.D.	Univ. of Southern California	Finishing I. Joshua's term
2000-03	Irving H. Zucker, Ph.D.	Univ. of Nebraska Med. Ctr.	Elected President-elect
1999-2002	Irving G. Joshua, Ph.D.	Univ. of Louisville	Elected President in place of P. Wise
1999-2001	Robert E. Fellows, M.D., Ph.D.	Univ. of Iowa	Finishing D. Bers' term
1998-99	Donald M. Bers, Ph.D.	Loyola Univ.	Elected President-elect
1998-99	Irving G. Joshua, Ph.D.	Univ. of Louisville	Finishing W. Dantzer's term

1997-2000	Phyllis M. Wise, Ph.D.	Univ. of Kentucky	Elected President-elect
1997-98	Donald M. Bers, Ph.D.	Loyola Univ.	Finishing A. Taylor's term
1996-98	William H. Dantzler, M.D., Ph.D.	Univ. of Arizona	Elected President-elect
1995-97	Aubrey E. Taylor, Ph.D.	Univ. of South Alabama	Elected Secretary-Treasurer
1994-97	Kenton M. Sanders, Ph.D.	Univ. of Nevada Sch. of Med.	
1994-95	Sandra Sabatini, M.D., Ph.D.	Texas Tech Univ. Hlth. Sci. Ctr.	Finishing L.G. Navar's term
1993-96	James G. Townsel, Ph.D.	Meharry Med. Coll.	
1993-94	Paul De Weer, M.D., Ph.D.	Univ. of Pennsylvania	Finishing A. Scarpa's term
1992-94	L. Gabriel Navar, Ph.D.	Tulane Univ.	Elected President-elect
1991-93	Antonio Scarpa, M.D., Ph.D.	Case Western Reserve Univ.	Elected President-elect
1992-93	James G. Townsel, Ph.D.	Meharry Med. Coll.	Finishing R. Foreman/W. Crill's term
1991-92	Wayne E. Crill, M.D.	Univ. of Washington	Finishing R. Foreman's term; elected President-elect
1990-91	Robert D. Foreman, Ph.D.	Univ. of Oklahoma	Elected Secretary-Treasurer
1989-91	Harel Weinstein, D.Sc.	Mount Sinai Sch. of Med.	Elected President-elect
1988-91	Robert E. Thurber, Ph.D.	East Carolina Univ.	
1988-89	Benjamin Kaminer, M.D.	Boston Univ. Sch. of Med.	Finishing R. Gunn's term
1987-90	Donald J. Marsh, M.D.	Brown Univ.	
1986-88	Robert B. Gunn, M.D.	Emory Univ.	Elected President-elect
1985-88	John J. Spitzer, M.D.	Louisiana State Univ. Health Sci. Ctr.	
1985-87	Allen W. Cowley, Jr., Ph.D.	Med. Coll. of Wisconsin	Finishing D. Frazier's term
1984-85	Donald T. Frazier, Ph.D.	Univ. of Kentucky	Elected Secretary-Treasurer
1983-86	M. Ian Phillips, Ph.D., D.Sc.	Univ. of Florida	
1984-85	Allen W. Cowley, Jr., Ph.D.	Med. Coll. of Wisconsin	Finishing S. Schultz's term
1982-84	Stanley G. Schultz, M.D.	Univ. of Texas, Houston Med. Sch.	Elected President-elect
1981-84	Jimmy D. Neill, Ph.D.	Univ. of Alabama, Birmingham	
1982-83	Stephen H. White, Ph.D.	Univ. of California, Irvine	Finishing E. Masoro's term
1980-82	Edward J. Masoro, Ph.D.	Univ. of Texas HSC at San Antonio	Elected President-elect
1979-82	Joseph P. Gilmore, Ph.D.	Univ. of Nebraska Med. Ctr.	
1978-81	Paul Horowicz, Ph.D.	Univ. of Rochester Med. Sch.	
1977-80	William Van der Kloot, Ph.D.	SUNY Stony Brook	
1976-79	Paul C. Johnson, Ph.D.	Univ. of Arizona	
1975-78	Jack L. Kostyo, Ph.D.	Univ. of Michigan Med. Sch.	
1974-75	W. Francis Ganong, M.D.	Univ. of California, San Francisco	Finishing H. Patton's term
1974-77	Harold G. Hempling, Ph.D.	Med. Univ. of South Carolina	
1973-76	Charles R. Park, M.D.	Vanderbilt Univ. Sch. of Med.	Elected President-elect
1972-74	Harry D. Patton, M.D., Ph.D.	Univ. of Washington	
1973-74	Norman R. Alpert, Ph.D.	Univ. of Vermont Coll. of Med.	Finishing J. Davis' term
1971-73	James O. Davis, M.D., Ph.D.	Missouri Univ.	Elected President-elect
1970-73	Gerhard H. Giebisch, M.D.	Yale Univ.	
1969-72	James B. Preston, M.D.	SUNY Upstate Med. Ctr.	
1968-71	Howard E. Morgan, M.D.	Pennsylvania State Univ.	



**Council of Faculty and Academic Societies (CFAS) (formerly Council of Academic Societies)**

**3-yr term; 2 Representatives; renewable terms**

<b>Year</b>	<b>Name</b>	<b>Institution</b>	<b>Early Term Ending</b>
2015-18	Nicholas A. Delamere, Ph.D.	Univ. of Arizona	
2014-15	Elsa I. Mangiarua, Ph.D.	Marshall Univ. Sch. of Med.	Finishing M. Montrose's term
2012-15	Marshall H. Montrose, Ph.D.	Univ. of Cincinnati	Resigned, became Dean
2011-17	R. Clinton Webb, Ph.D.	Georgia Regents Univ.	
2010-11	Meredith Bond, Ph.D.	Univ. of Maryland Sch. of Med.	Became Dean
2007-10	William S. Spielman, Ph.D.	Michigan State Univ.	
2006-07	Meredith Bond, Ph.D.	Univ. of Maryland Sch. of Med.	Elected President-elect
1997-2012	L. Gabriel Navar, Ph.D.	Tulane Univ.	
1995-2005	Antonio Scarpa, M.D., Ph.D.	Case Western Reserve Univ.	Finishing A. Cowley's term
1991-97	M. Ian Phillips, Ph.D., D.Sc.	Univ. of Florida	
1992-95	Allen W. Cowley, Jr., Ph.D.	Med. Coll. of Wisconsin	Finishing D. Frazier's term plus additional term
1989-92	Donald T. Frazier, Ph.D.	Univ. of Kentucky	
1988-89	Stanley G. Schultz, M.D.	Univ. of Texas, Houston Med. Sch.	Finishing L. Share's term
1987-91	Mordecai P. Blaustein, M.D.	Univ. of Maryland	
1985-87	Leonard Share, Ph.D.	Univ. of Tennessee Coll. of Med.	
1982-85	Howard E. Morgan, M.D.	Pennsylvania State Univ.	
1980-87	W. Francis Ganong, M.D.	Univ. of California, San Francisco	
1980-82	Stephen H. White, Ph.D.	Univ. of California, Irvine	
1980-81	H. Maurice Goodman, Ph.D.	Univ. of Massachusetts Med. Sch.	
1970-71	Daniel C. Tosteson, M.D.	Harvard Med. Sch.	

**Public Affairs**

**3-yr term; renewable terms**

<b>Year</b>	<b>Name</b>	<b>Institution</b>	<b>Early Term Ending</b>
1994-96	Mordecai P. Blaustein, M.D.	Univ. of Maryland	
1993-94	Leonard S. Jefferson, Ph.D.	Pennsylvania State Univ. Hershey Med. Ctr.	
1989-93	Charles D. Barnes, Ph.D.	Washington State Univ.	
1981-89	Norman R. Alpert, Ph.D.	Univ. of Vermont Coll. of Med	

**Association of Chairmen of Departments of Physiology**

Revised 11/9/88



**ASSOCIATION OF CHAIRMEN OF DEPARTMENTS OF  
PHYSIOLOGY**

**CONSTITUTION**  
(As amended April 15, 1968)

**ARTICLE I**

- Section 1. The name of this organization shall be the Association of Chairmen of Departments of Physiology

**ARTICLE II**

**PURPOSES AND OBJECTIVES**

- Section 1. The purpose and objective of this Association shall be to promote discussion of problems of interest and concern to chairmen of departments of physiology.

**ARTICLE III**

**MEMBERSHIP**

- Section 1. The membership of the Association shall include the chairmen of departments of physiology in accredited schools of medicine in the United States, Puerto Rico, Canada, and Mexico.
- Section 2. Upon approval by the Council, membership will also be open to individuals in other types of institutions who have similar responsibilities.
- Section 3. Upon approval of the Council, in colleges of medicine lacking a Department of Physiology, the administrative officer of an academic unit responsible for the discipline of physiology can be admitted to membership.

## **ARTICLE IV**

### **OFFICERS AND COUNCIL**

- Section 1. The officers of the Association shall consist of a President, a President-Elect and a Secretary-Treasurer. The President and President-Elect shall serve for terms of one year. The Secretary-Treasurer shall serve for three years.
- Section 2. The council shall consist of Officers, three Councilors and the past President. Each Councilor shall ordinarily serve a term of three years. One new Councilor shall be elected each year.

## **ARTICLE V**

### **MEETINGS**

- Section 1. The time and place of the annual meeting and all called meetings shall be determined by the Council.
- Section 2. Notice of time and place of all meetings shall be mailed to all members at least thirty days prior to such meeting.

## **ARTICLE VI**

### **QUORUM**

- Section 1. A quorum for any regular or called meeting shall consist of 20% of the members.

## **ARTICLE VII**

### **CHARTER MEMBERS**

- Section 1. All of those present at the first meeting, August 25, 1967, or who qualify under Article III, Section 1 are automatically charter members, unless they decline.

## **ARTICLE VIII**

### **AMENDMENTS**

- Section 1. Amendments to this Constitution may be effected by two-thirds of the voting members at a regular or called meeting provided that such an amendment has been submitted in writing to all members at least thirty days prior to such meeting.

# ASSOCIATION OF CHAIRS OF DEPARTMENTS OF PHYSIOLOGY, INC.

## BY-LAWS

### ARTICLE I

#### Office

**SECTION 1. Principal Office.** The principal office of the Corporation shall be at the American Physiological Society, 9650 Rockville Pike, Bethesda, MD 20814.

**SECTION 2. Other Offices.** The Corporation may also have an office or offices in such other places as the business of the Corporation may require and the Board of Directors may from time to time appoint.

### ARTICLE II

#### Members

**SECTION 1. Applications for Membership.** Membership shall include the chairs of Departments of Physiology in accredited schools of medicine in the United States, Puerto Rico, Canada and Mexico. Upon approval of the Board of Directors, membership will also be open to

- a. individuals in other types of institutions who have similar responsibilities, and
- b. the administrative officer of an academic unit responsible for the discipline of physiology in colleges of medicine lacking a department of physiology.

Emeritus Membership status is granted to former chairs that have held membership in ACDP for a total of 5 or more years. Emeritus members are invited to attend the annual meeting. Emeritus members can neither vote on Association business nor hold office.

**SECTION 2. Procedure.** Membership eligibility shall be automatic upon appointment to a chair of a Department of Physiology, notification of the Secretary/Treasurer by the new member and payment of dues by the member.

**SECTION 3. Dues.** The Board of Directors shall determine the annual dues for the members.

**SECTION 4. Attendance.** Attendance at meeting shall be limited to members or guests invited with the approval of the Board of Directors.

**SECTION 5. Annual Meeting.** The annual meeting of the members of the Corporation shall be held on a day duly designated by the Board of Directors either within or without the United States if not a legal holiday, and if a legal holiday then the next succeeding day not a legal holiday, for the transaction of such corporate business as may come before the meeting.

**SECTION 6. Special Meetings.** Special meetings of the members may be called at any time for any purpose or purposes by the Chair of the Board, by the President, by the President-elect, or by a majority of the Board of Directors, and shall be called forthwith by the Chair of the Board, the President, the President-elect, the Secretary-Treasurer or any director of the Corporation upon the request in writing of a majority of all the members entitled to vote on the business to be transacted at such meeting. Such request shall state the purpose or purposes of the meeting. Business transacted at all special meetings of members shall be confined to the purpose or purposes stated in the notice of the meeting.

**SECTION 7. Place of Holding Meetings.** All meetings of members shall be held within or without the United States at a place designated by the Board of Directors.

**SECTION 8. Notice of Meetings.** Written notice of each meeting of the members shall be mailed, postage prepaid by the Secretary/Treasurer, or sent by e-mail over the Internet or similar electronic communications equipment by the Secretary/Treasurer, to each member of record entitled to vote thereat at his/her post office address or e-mail address, as it appears upon the books of the Corporation, at least thirty (30) days before the meeting. Each such notice shall state the place, day, and hour at which the meeting is to be held and, in the case of any special meeting, shall state briefly the purpose or purposes thereof.

**SECTION 9. Quorum.** The presence in person or by proxy of twenty percent (20%) of the members of the Corporation shall constitute a quorum at all meetings of the members except as otherwise provided by law, by the Articles of Incorporation or by these By-Laws. If less than a quorum shall be in attendance at the time for which the meeting shall have been called, the meeting may be adjourned from time to time by a majority vote of the members present or represented, without any notice other than by announcement at the meeting, until a quorum shall attend. At any adjourned meeting at which a quorum shall attend, any business may be transacted which might have been transacted if the meeting had been held as originally called.

**SECTION 10. Conduct of Meetings.** Meetings of members shall be presided over by the President or the Corporation or, if the President is not present, by the President-elect, or, if none of said officers is present, by a chair to be elected at the meeting. The Secretary/Treasurer of the Corporation shall act as secretary of such meetings, in the absence of the Secretary-Treasurer the presiding officer may appoint a person to act as Secretary of the meeting.

**SECTION 11. Voting.** At all meetings of members, every member entitled to vote thereat shall have one (1) vote. Such vote may be either in person or by proxy appointed by an instrument in writing subscribed by such member or the member's duly authorized attorney, bearing a date not more than three (3) months prior to said meeting, unless said instrument provides for a longer period. Such proxy shall be dated, but need not be sealed, witnessed or acknowledged. All elections shall be held and all questions shall be decided by a majority of the votes cast at a duly constituted meeting, except as otherwise provided by law, in the Certificate of Incorporation or by these By-Laws. If the chair of the meeting shall so determine, a vote by ballot may be taken upon any election or matter, and the vote shall be so taken upon the request of ten percent (10%) or more of all the members entitled to vote on such election or matter. In either of such events, the proxies and ballots shall be received and be taken in charge and all questions touching the

qualification of voters and the validity of proxies and the acceptance or rejection of votes, shall be decided by members appointed by the chair of the said meeting.

## **ARTICLE III**

### **Board of Directors**

**SECTION 1. General Powers.** The property and business of the Corporation shall be managed under the direction of the Board of Directors of the Corporation. The Board shall be the policy making and administrative body of the corporation during the interval between the regular annual meetings and shall be empowered to enter into contracts and to authorize such expenditures as may be necessary to carry on the affairs of the Corporation.

**SECTION 2. Number and Term of Office.** The number of Directors shall be either (8) or such other number, but not less than three (3) nor more than nine (9), as may be designated from time to time by resolution of a majority of the entire board of Directors. Directors shall be members of the Corporation.

**SECTION 3. Filling of Vacancies.** In the case of any vacancy in the Board of Directors through death, resignation, disqualification, removal, or other cause, the office shall be left vacant unless filled by a vote of the members at a special meeting.

**SECTION 4. Place of Meeting.** The Board of Directors may hold their meetings and have one or more offices, and keep the books of the Corporation, either within or outside the State of Maryland, at such place or places as they may from time to time determine by resolution or by, written consent of all the directors. The Board of Directors may hold their meetings by conference telephone, e-mail over the Internet or other similar electronic communications equipment if everyone can hear everyone else in accordance with the provisions of the General Corporation Law of the State of Maryland.

**SECTION 5. Regular Meetings.** Regular meetings of the Board of Directors may be held without notice at such time and place as shall from time to time be determined by resolution of the Board, provided that written notice of each meeting of the Board of Directors shall be mailed, postage prepaid by the Secretary or sent by e-mail over the Internet or similar electronic communications equipment by the Secretary, to each member of record entitled to vote thereat at his/her post office address or e-mail address, as it appears upon the books of the Corporation, at least ten (10) days before the meeting. The annual meeting of the Board of Directors shall be held immediately following the annual meeting of members. Any business may be transacted at any regular meeting of the Board.

**SECTION 6. Special Meetings.** Special meetings of the Board of Directors shall be held whenever called by any member of the Board of Directors. The Secretary shall give notice of each special meeting of the Board of Directors, by mailing the same at least three (3) days prior to the meeting or by e-mailing over the Internet the same at least two (2) days before the meeting, to each Director, but such notice may be waived by any Director. Unless otherwise

indicated in the notice thereof, any and all business may be transacted at any special meetings. At any meeting at which every Director shall be present, even though without notice, any business may be transacted and any Director may in writing waive notice of the time, place and objectives of any special meeting.

**SECTION 7. Quorum.** A majority of the whole number of Directors shall constitute a quorum for the transaction of business at all meetings of the Board of Directors, but, if at any meeting less than a quorum shall be present, a majority of those present may adjourn the meeting from time to time, and the act of a majority of the Directors present at any meeting at which there is a quorum shall be the act of the Board of Directors, except as may be specifically provided, by law, or by the Articles of Incorporation or by these By-Laws.

**SECTION 8. Required Vote.** An affirmative vote of a majority of those present shall be necessary for the passage of any resolution. All proceedings at the meeting of the Board of Directors or of any committee appointed by the Board shall be governed by Roberts Rules of Order, Revised, except where otherwise provided in these By-Laws.

**SECTION 9. Compensation of Directors.** Directors shall not receive any stated salary for their services as such, but each director shall be entitled to receive from the Corporation reimbursement of the expenses incurred by the Director attending any regular or special meeting of the Board, and, by resolution of the Board of Directors a fixed sum may also be allowed for attendance at each regular or special meeting of the Board and such reimbursement and compensation shall be payable whether or not a meeting is adjourned because of the absence of a quorum. Nothing herein contained shall be construed to preclude any Director from serving the Corporation in any other capacity, and receiving compensation there for.

**SECTION 10. Standing Committees.** The Board of Directors shall:

- a. Elect two members of the Corporation to represent the corporation at the Council of Academic Societies ("CAS") of the Association of American Medical colleges ("AAMC"). The CAS representatives shall attend Board meetings and make periodic reports to the Board and to the members of the Corporation. The term of appointment shall be for four (4) years, renewable once.
- b. Elect a member of the Board to serve a three year term as Director of Public Affairs.

**SECTION 11. Other Committees.** The Board of Directors may, by resolution passed by a majority of the whole Board, designate one or more other committees, each committee to consist of two or more of the directors of the Corporation, which, to the extent provided in the resolution, shall have and may exercise the powers of the Board of Directors, and may authorize the seal of the Corporation to be affixed to all papers which may require it. Such committee or committees shall have such names as may be determined from time to time by resolution adopted by the Board of Directors.

**SECTION 12.** The Board of Directors shall allow Chairs in good standing to designate a member of the faculty of his or her Department to attend annual meetings in their absence as a

non-voting representative of the Department. Non-voting representatives shall not count toward the number of members needed to constitute a quorum.

## **ARTICLE IV**

### **Officers**

**SECTION 1. Election, Tenure and Compensation.** The officers of the Corporation shall be a President, a President-elect, and a Secretary/Treasurer, and also such other officers including a Chair of the Board as the Board of Directors from time to time may consider necessary for the proper conduct of the business of the Corporation. The President and President-elect shall be elected annually by the members at the annual meeting of the members. The Secretary/Treasurer shall be elected every three years by the members at the annual meeting of members. All officers of the Corporation shall be directors. The Secretary and Treasurer offices may be held by the same person, but no officer shall execute, acknowledge or verify any instrument in more than one capacity if such instrument is required by law or by these By-Laws to be executed, acknowledged or verified by any two or more officers.

The procedures for nominating and balloting will be determined at the time of the meeting of members. A majority of the members voting at a duly authorized meeting shall be necessary to elect the nominees.

In the event that any office other than an office required by law, shall not be filled by the members, or, once filled, subsequently becomes vacant, then such office and all references thereto in these By-Laws shall be deemed inoperative unless and until such office is filled in accordance with the provisions of these By-Laws.

All officers and agents of the Corporation shall be subject to removal at any time by the affirmative vote of a majority of the members voting at a duly authorized meeting of members, and any officers, agents, and employees, shall hold office at the discretion of the members.

**SECTION 2. Powers and Duties of the Chair of the Board.** The Chair of the Board shall preside at all meetings of the Board of Directors unless the Board of Directors shall by a majority vote of a quorum thereof elect a chair other than the Chair of the Board to preside at meetings of the Board of Directors. The Chair of the Board may sign and execute all authorized bonds, contracts, or other obligations in the name of the Corporation, and he/she shall be ex-officio a member of all standing committees.

**SECTION 3. Powers and Duties of the President.** The President shall be the chief executive officer of the Corporation and shall have general charge and control of all its business affairs and properties. The President shall preside at all meetings of the members.

The President may sign and execute all authorized bonds, contracts or other obligations in the name of the Corporation. The President shall have signature power to sign checks under his/her signature in amounts below \$1,000. The President shall have the general powers and



duties of supervision and management usually vested in the office of president of a corporation. The President shall be ex-officio a member of all the standing committees. The President shall do and perform such other duties as may, from time to time, be assigned to him/her by the Board of Directors.

In the event that the Board of Directors does not take affirmative action to fill the office of Chair of the Board, the President shall assume and perform all powers and duties given to the Chair of the Board by these By-Laws.

**SECTION 4. Powers and Duties of the President-elect.** The Board of Directors shall appoint a President-elect and the Board of Directors may appoint a Vice President. The President-elect (unless otherwise provided by resolution of the Board of Directors) may sign and execute all authorized bonds, contracts, or other obligations in the name of the Corporation. The President-elect shall have such other powers and shall perform such other duties as may be assigned to him/her by the Board of Directors or by the President. In case of the absence or disability of the President, the duties of that office shall be performed by the President-elect, and the taking of any action by the President-elect in place of the President shall be conclusive evidence of the absence or disability of the President.

**SECTION 5. Secretary/Treasurer.**

- a. The Secretary shall handle all voting matters, whether at actual meetings, telephonic meetings or meetings held on the Internet or other electronic media; he/she shall give, or cause to be given, notice of all meetings of members and directors and all other notices required by law or by these By-Laws, and in case of his/her absence or refusal or neglect to do so, any such notice may be given by any person thereunto directed by the President, or by the directors or members upon whose written request the meeting is called as provided in these By-Laws. The Secretary shall record all proceedings of the meetings of the members and of the directors in books provided for that purpose, and shall perform such other duties as may be assigned to him/her by the directors or the President. The Secretary shall have custody of the seal of the Corporation and shall affix the same to all instruments requiring it, when authorized by the Board of Directors or the President, and attest the same. In general, the Secretary shall perform all the duties generally incident to the office of Secretary, subject to the control of the Board of Directors and the President.
- b. Treasurer. The Treasurer shall have custody of all the funds and securities of the Corporation, and he/she shall keep full and accurate account of receipts and disbursements in books belonging to the Corporation. The Treasurer shall deposit all moneys and other valuables in the name and to the credit of the Corporation in such depository or depositories as may be designated by the Board of Directors. The Treasurer shall have the power to sign checks under his/her signature in amounts up to \$1,000. All checks for amounts over \$1,000 shall require the signatures of two officers.

The Treasurer shall disburse the funds of the Corporation as may be ordered by the Board of Directors, taking proper vouchers for such disbursements. He/she shall render to the President and the Board of Directors, whenever either of them so requests, an account of all his/her transactions as Treasurer and of the financial condition of the Corporation.

The Treasurer shall give the Corporation a bond, if required by the Board of Directors, in a sum, and with one or more sureties, satisfactory to the Board of Directors, for the faithful performance of the duties of his/her office and for the restoration to the Corporation in case of his/her death, resignation, retirement, or removal from office of all books, papers, vouchers, moneys, and other properties of whatever kind in his possession or under his control belonging to the Corporation.

The Treasurer shall perform all the duties generally incident to the office of the Treasurer, subject to the control of the Board of Directors and the President.

**SECTION 6. Assistant Secretary.** The Board of Directors may appoint an Assistant Secretary or more than one Assistant Secretary. Each Assistant Secretary shall (except as otherwise provided by resolution of the Board of Directors) have power to perform all duties of the Secretary in the absence or disability of the Secretary and shall have such other powers and shall perform such other duties as may be assigned to him/her by the Board of Directors or the President. In case of the absence or disability of the Secretary, the duties of the office shall be performed by any such Assistant Secretary, and the taking of any action by any such Assistant Secretary in place of the Secretary shall be conclusive evidence of the absence or disability of the Secretary.

**SECTION 7. Assistant Treasurer.** The Board of Directors may appoint an Assistant Treasurer or more than one Assistant Treasurer. Each Assistant Treasurer shall (except as otherwise provided by resolution of the Board of Directors) have power to perform all duties of the Treasurer in the absence or disability of the Treasurer and shall have such other powers and shall perform such other duties as may be assigned to him/her by the Board of Directors or the President. In case of the absence or disability of the Treasurer, the duties of the office shall be performed by any Assistant Treasurer, and the taking of any action by any such Assistant Treasurer in place of the Treasurer shall be conclusive evidence of the absence or disability of the Treasurer.

## **ARTICLE V**

### **Corporate Seal**

**SECTION 1. Seal.** In the event that the President shall direct the Secretary to obtain a corporate seal, the corporate seal shall be circular in form and shall have inscribed thereon the name of the Corporation, the year of its organization and the word "Maryland". Duplicate copies of the corporate seal may be provided for use in the different offices of the Corporation but each copy thereof shall be in the custody of the Secretary of the Corporation or of an Assistant Secretary of the Corporation nominated by the Secretary.

## **ARTICLE VI**

### **Bank Accounts and Loans**

**SECTION 1. Bank Accounts.** Such officers or agents of the Corporation as from time to time shall be designated by the Board of Directors shall have authority to deposit any funds of the Corporation in such banks or trust companies as shall from time to time be designated by the Board of Directors, and such officers or agents as from time to time shall be authorized by the Board of Directors may withdraw any or all of the funds of the Corporation so deposited in any such bank or trust company, upon checks, drafts, or other instruments or orders for the payment of money, drawn against the account or in the name or behalf of this Corporation, and made or signed by such officers or agents; and each bank or trust company with which funds of the Corporation are so deposited is authorized to accept, honor, cash and pay, without limit as to amount, all checks, drafts or other instruments or orders for the payment of money, when drawn, made or signed by officers or agents so designated by the Board of Directors until written notice of the revocation of the authority of such officers or agents by the Board of Directors shall have been received by such bank or trust company. There shall from time to time be certified to the banks or trust companies in which funds of the Corporation are deposited, the signature of the officers or agents of the Corporation so authorized to draw against the same. In the event that the Board of Directors shall fail to designate the persons by whom checks, drafts and other instruments or orders for the payment of money shall be signed, as hereinabove provided in this Section, all of such checks, drafts and other instruments or orders for the payment of money shall be signed by the President or President-elect and countersigned by the Secretary/Treasurer or an Assistant Secretary or an Assistant Treasurer of the Corporation.

**SECTION 2. Loans.** Such officers or agents of this Corporation as from time to time shall be designated by the Board of Directors shall have authority to effect loans, advances or other forms of credit at any time or times for the Corporation from such banks, trust companies, institutions, corporations, firms or persons as the Board of Directors, shall from time to time designate, and as security for the repayment of such loans, advances, or other forms of credit to assign, transfer, endorse and deliver, either originally or in addition or substitution, any or all stocks, bonds, rights and interests of any kind in or to stocks or bonds, certificates of such rights or interests, deposits, accounts, documents covering merchandise, deposits and accounts receivable and other commercial paper and evidences of debt at any time held by the Corporation, and for such loans, advances or other forms of credit to make, execute and deliver one or more notes, acceptances or written obligations of the Corporation on such terms, and with such provisions as to the security or sale or disposition thereof as such officers or agents shall deem proper; and also to sell to, or discount or rediscount with, such banks, trust companies, institutions, corporations, firms or persons any and all commercial paper, bills receivable, acceptances and other instruments and evidences of debt at any time held by the Corporation, and to that end to endorse, transfer and deliver the same. There shall from time to time be certified to each bank, trust company, institution, corporation, firm or person so designated the signatures of the officers or agents so authorized; and each such bank, trust company, institution, corporation, firm or person is authorized to reply upon such certification until written notice of the revocation by the Board of Directors of the authority of such officers or agents shall be delivered to such bank, trust company, institution, corporation, firm or person.

## **ARTICLE VII**

### **Reimbursements**

**SECTION 1. Reimbursements.** Any payments made to an officer or other employee of the Corporation, such as salary, commission, interest or rent, or entertainment expense incurred by him/her, which shall be disallowed in whole or in part as a deductible expense by the Internal Revenue Service, shall be reimbursed by such officer or other employee of the Corporation to the full extent of such disallowance. It shall be the duty of the Directors, as a Board, to enforce payment of each such amount disallowed. In lieu of payment by the officer or other employee, subject to the determination of the Board of Directors, proportionate amounts may be withheld from his/her future compensation payments until the amount owed to the Corporation has been recovered.

## **ARTICLE VIII**

### **Miscellaneous Provisions**

**SECTION 1. Fiscal Year.** The fiscal year of the Corporation shall end on the last day of December.

**SECTION 2. Notices.** Whenever, under the provisions of these By-Laws, notice is required to be given to any Director, officer or member it shall not be construed to mean personal notice, but such notice shall be given in writing, by email over the Internet, by mail, by depositing the same in a post office or letter box, in a postpaid sealed wrapper, addressed to each member officer or director at such address as appears on the books of the Corporation, or in default of any other address, to such director, officer or member at the general post office in the City of Rockville, Maryland, and such notice shall be deemed to be given at the time the same shall be thus mailed. Any member, Director or officer may waive any notice required to be given under these By-Laws.

**SECTION 3. Waiver, Consent.** Any notice required to be given under these By-Laws or otherwise may be waived by the Director, officer or member to whom such notice is required to be given and the presence of any person at a meeting shall constitute waiver of notice thereof as to such person. Any action which may be taken at a meeting of the Directors, officers or members may be taken without a meeting if a consent in writing, setting forth the action so taken, shall be signed by all of the Directors, officers or members entitled to vote with respect to the subject matter thereof. Such consent shall have the same force and effect as an unanimous vote of the Directors, officers or members, as the case may be.

## **ARTICLE IX**

### **Amendments**

**SECTION 1. Amendment of By-Laws.** Any member can propose an amendment of the By-Laws by submitting the change to the President. If a majority of the Members adopt the amendment it shall be adopted provided that such amendment has been submitted in writing to all Members by mail at least thirty days prior to such meeting. Without prior notification, amendment of the By-Laws may be accomplished by the unanimous consent of the members voting at an annual or special meeting of the members.

## **ARTICLE X**

### **Indemnification**

**SECTION 1. Definitions.** As used in this Article X, any word or words that are defined in Section 2-418 of the Corporations and Associations Article of the Annotated Code of Maryland, as amended from time to time, (the "Indemnification Section") shall have the same meaning as provided in the Indemnification Section.

**SECTION 2. Indemnification of Directors and Officers.** The Corporation shall indemnify and advance expenses to a Director or officer of the Corporation in connection with a proceeding to the fullest extent permitted by and in accordance with the Indemnification Section.

**SECTION 3. Indemnification of Employees and Agents.** With respect to an employee or agent, other than a Director or officer, of the Corporation, the Corporation may, as determined by the Board of Directors of the Corporation, indemnify and advance expenses to such employee or agent in connection with a proceeding to the extent permitted by and in accordance with the Indemnification Section.

Amended 12/2006