

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



***2022 Leadership Retreat
December 1-4, 2022***

Isla Bella Resort, Marathon Key, FL



Welcome to the Conch Republic!



https://en.wikipedia.org/wiki/Conch_Republic

Welcome to the Florida Keys and Isla Bella Resort. Whether your journey to Isla Bella Resort was through vibrant Miami (116 miles away), or quirky Key West (45 miles away), you will be enjoying a relaxed vibe from the southernmost part of the continental US. Isla Bella is a new resort located at the base of the well-known seven mile bridge. It is so new that Google maps still shows it as a construction site. Marathon Key is known for world class scuba diving, snorkeling and sport fishing, with a marina providing these activities adjacent to the resort. Other key attractions (pun intended) are the Turtle Hospital (<https://www.turtlehospital.org/>), and the old seven mile bridge which recently re-opened for access by train, biking or walking access to Pigeon Key (<https://pigeonkey.net/>).

As President of ACDP I welcome you to the Keys and to Isla Bella Resort for the 2022 ACDP Annual Leadership Retreat. Isla Bella Resort is a small (99 room) resort with all rooms having an ocean view and easy beach and pool access.

We have an engaging program with a theme reflecting some of the current challenges our members face: “Building and Maintaining a Positive Culture in a Continuous Storm”. The combination of the strains placed on our universities by the Covid pandemic, the financial and political pressures on academic units and faculty and the withering of tenure have all made building and maintaining a positive culture challenging. Whether you are a highly seasoned chair or new to the position, I hope you will find some kernels of wisdom and thought-provoking ideas from our speakers. We bring the honest perspective of a junior faculty at the tail end of her tenure track years (Dr. Jackie Limberg) to give a “do and don’t” perspective to chairs, and an innovating Associate Dean for Professional Development (Dr. Anne Robertson) to talk about her proven mentoring and faculty development program. The executive director of The American Physiological Society (APS) will provide an update as well as engage in discussions of how ACDP and APS can collaborate more in the future to meet the needs of physiology chairs. Finally, our cutting-edge science talk will be given by Dr. Bob Balaban (Scientific Director for the National Heart Lung and Blood Institute of NIH).

2021-2022

Christopher Hardin, President
Kebreten F. Manaye, President-elect
Dale Buck Hales, Past-President
V. Gustavo Blanco, Secretary/Treasurer

Nancy Carrasco, Councilor (2024)
C. Lee Cox, Councilor (2022)
Bina Joe, Councilor (2024)
Merry L. Lindsey, Councilor (2023)

Toni R. Pak, Councilor (2022)
YS Prakash, Councilor (2023)
Nicholas A. Delamere, CFAS Rep. (2022)
Patricia E. Molina, CFAS Rep. (2024)

It is my privilege to announce the ACDP Distinguished Service Award will be given to Patricia Molina for her years of extensive service to APS and ACDP, including being a former president of both organizations. The most prestigious award given by ACDP is the Arthur Guyton Distinguished Lectureship Award which will be presented to Bina Joe in recognition of her pioneering work on the physiological genomics of blood pressure regulation.

We also welcome a large number of new chairs to ACDP and we will provide a platform for these new chairs to briefly introduce their research program and departments in a series of short (7-8 minute) overviews early in the program. We hope these brief introductions will facilitate many welcoming and helpful conversations among the membership. In addition, we extend a welcome to a number of first-time attendees, although not new chairs.

We have arranged an optional snorkeling tour or sport fishing expedition on Friday afternoon. For those fishing, at the adjacent Sunset Grill (with sunsets across the seven mile bridge) they will cook your freshly caught fish for a fee for dinner on Friday. On Saturday, the Turtle Hospital or Pigeon Key will make a relaxing afternoon excursion before the closing banquet.

I hope you enjoy the program, the comradery and the vibe of ACDP in the Conch Republic.

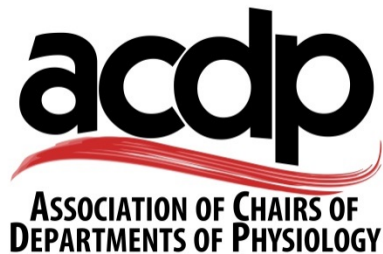
Chris Hardin
President, ACDP

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ACDP Leadership Retreat
 December 1-4, 2022
 Isla Bella Resort
 Marathon Key, FL
 Program Book

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Association of Chairs of Departments of Physiology
Physiology Programs Leadership Retreat Agenda
Isla Bella Resort
Marathon Key, Florida
December 1-4, 2022

2022 ACDP Leadership Retreat Theme:

Building and Maintaining a Positive Culture in a Continuous Storm

Thursday, December 1	
Before 6:00 pm	Arrivals, tours, leisure on your own
1:00 – 3:00 pm	Registration (Lobby)
3:00 – 5:00 pm	ACDP Council Meeting (NOTE: for ACDP officers only (Hibiscus A))
5:00-6:00 pm	<i>Unchoreographed Evolution of a Research Trajectory; An Amalgam of Experiences Distinguished Service Award Lecture</i> (Hibiscus A and B) <i>Patricia Molina, MD, PhD</i> <i>Louisiana State University Health Sciences Center, New Orleans</i>
6:00 – 7:00 pm	Opening Reception* (The Dunes) Margaritaville Theme
7:00 pm	Dinner on your own (on site or Sunset Grill recommended)

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

Friday, December 2	
7:00 – 8:00 am	Breakfast on your own
8:00-8:30 am	<i>New Chair Brief Talks (Lang, Brooks, Judd)</i> (Hibiscus A and B)
8:30 – 9:30 am	<i>The Metabolic Design of Striated Muscle Cutting Edge Science Talk</i> <i>Robert S. Balaban, PhD</i> <i>National Heart, Lung & Blood Institute, NIH</i>
9:30 – 10:30 am	<i>Building Culture – A Junior Faculty Perspective</i> <i>Jackie Limberg, PhD</i> <i>Assistant Professor</i> <i>University of Missouri</i>
10:30 – 10:40 am	Coffee Break (Hibiscus Foyer)
10:40 – 11:30 am	<i>New Chair Brief Talks (Gundry, Pierce, Segara, Kanagy, Grider)</i>
11:30 am – Noon	<i>Business Meeting I</i> <ul style="list-style-type: none"> • Financial Report (V. Gustavo Blanco, MD, PhD) • CFAS Report (Patricia Molina, MD, PhD) • Update on core concepts for undergraduate physiology education (Richard Nichols, PhD) • Nominations of Officers

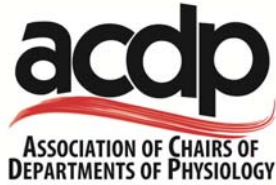
Friday, December 2 (Continued)	
Noon – 12:10 pm	ACDP Council Meeting (NOTE: for ACDP officers only)
12:10 pm	Lunch on your own, Marketplace grab n go recommended for boats
12:30 – 6:30 pm	Afternoon on your own: deep sea fishing, snorkeling trip, Turtle Hospital recommended
6:30 – 7:30 pm	<i>Joe's Odyssey: Physiology Research, Executive Leadership and the Pursuit of Happiness</i> <i>Arthur Guyton Award Lecture</i> <i>Bina Joe, PhD</i> <i>University of Toledo</i>
7:30– 9:30 pm	Dinner on your own (on site or Sunset Grill recommended)

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

Saturday, December 3	
7:30 – 8:30 am	Breakfast on your own
8:00 – 8:30 am	<i>New Chair Brief Talks (as needed)</i> (Hibiscus A and B)
8:30 – 9:30 am	<i>Leveraging Your Village to Mentor Junior Faculty to Success</i> <i>Anne M. Robertson, PhD</i> <i>Associate Dean for Faculty Development</i> <i>University of Pittsburgh</i>
9:30 – 10:15 am	<i>APS: Evolving to Meet the Changing Needs of Our Members and the Discipline</i> <i>Scott Steen, CAE, FASAE</i> <i>Executive Director, American Physiological Society</i>
10:15 –10:30 am	Coffee Break
10:30 – 11:30 am	<i>Mentoring Roundtable</i> <i>Anne Robertson, PhD</i> <i>Chair Advocacy – Tools to Promote a Positive Culture</i> <i>Anne Robertson, PhD</i> <i>Panel: Toni Pak, PhD; Kerry McDonald, PhD; Gaylen Edwards DVM, PhD</i>
11:30 – noon	<i>Business Meeting II</i> <ul style="list-style-type: none"> • Election of Officers • 2023 Meeting Information (Kebreten Manaye, MD)
12:00 – 6:30 pm	Lunch and afternoon on your own
6:30 – 7:00 pm	Cocktails* (Pelican Point)
7:00 – 9:00 pm	Meeting Banquet* (Pelican Point) Cuban Cuisine and Band

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

Sunday, December 4	
All Day	Tours, leisure, and departures on your own



Association of Chairs of Departments of Physiology Physiology Programs Leadership Retreat Agenda

Isla Bella Resort

Marathon, FL

December 1-4, 2022



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**ACDP 2022 Annual Leadership Retreat
Speakers**

***Unchoreographed Evolution of a Research Trajectory;
An Amalgam of Experiences***
Distinguished Service Award Lecture

Patricia Molina, M.D., Ph.D., FAPS

Richard Ashman, Ph.D. Professor and Head Department of Physiology
Director, Alcohol and Drug Abuse Center of Excellence (ADACE)
Louisiana State University Health Sciences Center New Orleans

***Joe's Odyssey: Physiology Research, Executive Leadership
and the Pursuit of Happiness***

Arthur C. Guyton Distinguished Lectureship Award Lecture

Bina Joe, Ph.D., FAHA, FAPS, ISHF

Distinguished University Professor
Chairwoman of the Department of Physiology and Pharmacology
Frederick-Hiss Endowed Professor
Founding Director of the Center for Hypertension and Precision Medicine
University of Toledo, College of Medicine and Life Sciences

The Metabolic Design of Striated Muscle

Robert S. Balaban, Ph.D.

Scientific Director
Division of Intramural Research
National Heart, Lung, and Blood Institute
National Institutes of Health

Building Culture – A Junior Faculty Perspective

Jacqueline (Jackie) Limberg, Ph.D.

Assistant Professor
Department of Nutrition and Exercise Physiology
University of Missouri

Leveraging Your Village to Mentor Junior Faculty to Success

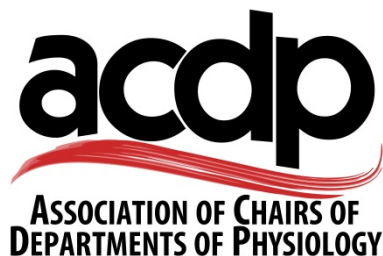
Anne M. Robertson, Ph.D.

Associate Dean for Faculty Development
University of Pittsburgh

APS: Evolving to Meet the Changing Needs of Our Members and the Discipline

Scott Steen, CAE, FASAE

Executive Director
American Physiological Society



ACDP Speaker Biosketches

2022 Distinguished Service Awardee



Patricia Molina, M.D., Ph.D., FAPS

Richard Ashman, Ph.D. Professor and Head
Department of Physiology
Director, Alcohol and Drug Abuse Center of Excellence
(ADACE)
Louisiana State University Health Sciences Center
New Orleans

Patricia Molina is a tenured professor at Louisiana State University Health Sciences Center (LSUHSC) New Orleans. Molina completed her medical training at the Universidad Francisco Marroquin in Guatemala, Central America and her doctorate in physiology at LSUHSC. Following a post-doctoral fellowship at Vanderbilt University, she was recruited to be an assistant professor of surgery and physiology at the State University of New York, Stony Brook. Subsequently she became the Director of Surgical Research at North Shore University Hospital, while holding a guest appointment at Brookhaven National Laboratory. She then joined the department of physiology at LSUHSC as an associate professor where she obtained tenured and promotion to the rank of professor prior to being appointed as Chair of Physiology and Director for the ADACE in 2008.

Her research focuses on the biomedical consequences of unhealthy alcohol use, particularly as they impact HIV disease pathogenesis. As Principal Investigator of the P60 Comprehensive Alcohol Research Center on HIV, she leads a multidisciplinary team of investigators that uses a bidirectional translational approach that integrates clinical and non-human primates in examining the impact of alcohol, environmental factors, and behaviors on risk of comorbid conditions that accelerate the frailty syndrome in persons living with HIV. Molina is the Director of the Alcohol and Drug Abuse Center of Excellence at LSUHSC, and currently serves as the Co-chair for the National Hispanic Science Network on Drug Abuse.

Molina has been an actively engaged member of APS and ACDP. She has been a member of the Endocrine and Metabolism Section steering committee, Editorial Board of the *American Journal of Physiology: Endocrine and Metabolism* Journal, member and Chairs of the Porter Committee and the International Committee, and Treasurer for the International Union of Physiological Sciences (IUPS). She was recognized for her mentoring of underrepresented individuals in biomedical science

with the A. Clifford Barger Underrepresented Minority Mentorship Award. Molina was the first Hispanic female and the 88th President to the American Physiological Society. She served as Councilor and later as President for ACDP and currently is an ACDP CFAS representative. Molina more recently served as President of the Research Society on Alcoholism from 2020-2021 and will be recognized with the 2023 Solomon A. Berson Distinguished Lectureship of the APS Endocrinology and Metabolism Section.



Bina Joe, Ph.D., FAHA, FAPS, ISHF

Distinguished University Professor

Chairwoman of the Department of Physiology
and Pharmacology

Frederick-Hiss Endowed Professor

Founding Director of the Center for Hypertension
and Precision Medicine

University of Toledo, College of Medicine
and Life Sciences

Bina Joe is a member of the executive cabinet of the Dean, Distinguished University Professor, Chairwoman of the Department of Physiology and Pharmacology, Frederick-Hiss Endowed Professor and the founding Director of the Center for Hypertension and Precision Medicine at the University of Toledo, College of Medicine and Life Sciences. Dr. Joe received her Ph.D. from the University of Mysore in India. After a brief postdoctoral fellowship at the Indian Institute of Science in Bangalore, she moved to the Pharmaceutical Industry working for AstraZeneca India and subsequently immigrated to the United States in 1997 as an International Fogarty Scholar to conduct Molecular Genetics research on Arthritis in the Intramural Research Division of the National Institutes of Health, Bethesda, MD. Her work in Hypertension began in 2001 when she accepted a faculty position at her current Institution, the University of Toledo College of Medicine (erstwhile known as the Medical College of Ohio). In 2011, she founded the Center for Hypertension and Precision Medicine, which is a University Research Council approved Center. Since 2015, she has assumed the position of Department Chairwoman.

For the past two decades, she has been instrumental in leading Hypertension Research, which is now recognized as a Spotlight research area of unique distinction in the University of Toledo. Dr. Joe is an internationally recognized leader in hypertension research who has been continually funded with >\$22 million by the US Government over the past 17 years. She has published over 150 peer-reviewed articles, many documenting pioneering discoveries and 6 book chapters. Her research work is published in several top-tier journals including *PNAS*, *Cell*, *Cell Reports* and *Nature Communications*. Her laboratory was the first to use CRISPR-Cas9 gene editing to positionally clone

non-coding variants causing hypertension. More recent pioneering recent innovative discoveries of her laboratory include (1) the identification of gut microbiota as causal factors for blood pressure regulation, (2) the ketone body betahydroxybutyrate as an antihypertensive metabolite, (3) the link between energy metabolism and hypertension and (4) the association between diurnal rhythms of gut microbiota with hypertension.

She is the first Asian-American recipient of several research awards in hypertension research including the International Harriet Dustan Award for women in science as well as the Lewis K. Dahl Memorial Lecture Award from the American Heart Association, the Ernest Starling Distinguished Lectureship Award from the American Physiological Society and the Young Scholar Award from the American Society of Hypertension. She has been invited for presentations in several countries including UK, US, Greece, China, Australia, Cuba and Canada and at congresses as a keynote speaker in the U.S.

Dr. Joe has mentored several Research Assistant Professors, postdoctoral fellows and graduate students, many of whom have attained independent academic careers. Dr. Joe is the Ex-Editor-in-Chief of *Physiological Genomics*, a Journal of the American Physiological Society and the current Editor-in-Chief of a new journal affiliated with the European Endocrine Society titled *Microbiota and Host*. She continues to serve on multiple NIH and other international review panels, is the Scientific Organizer of several International Conferences in USA and UK. She is currently engaged in various executive leadership activities to promote research locally, nationally, and internationally. Besides being an internationally recognized Researcher, she has taken on multiple leadership positions within the American Physiological Society, the American Heart Association and the International Society of Hypertension.

Besides her scientific pursuits, Dr. Joe is an artist in Classical Indian Dance and has graduated many students in this art. She is active in Philanthropy as a Board of Trustees member of the Greater Toledo Community Foundation, as well as an active member of the Women in Philanthropy organization in Toledo, OH. Dr. Joe is married to Dr. Venkatesha Basrur, a faculty member of the University of Michigan and is the proud mother of two, Basrur Abhijith (26) and Megan Sharada Basrur (16).



Robert S. Balaban, Ph.D.

Scientific Director
Division of Intramural Research
National Heart, Lung, and Blood Institute
National Institutes of Health

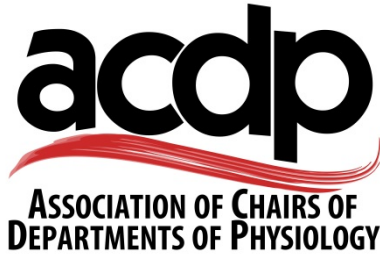
Robert Stephen Balaban is currently the Scientific Director of the National Heart, Lung, and Blood Institute (NHLBI) and the Chief of the Laboratory of Cardiac Energetics, Division of Intramural Research, NHLBI. Dr. Balaban received his BS from the University of Miami in 1971 in Biology and Chemistry and his Ph.D. from Duke University in 1980 in Physiology and

Pharmacology. Dr. Balaban was awarded a NATO Fellowship to the Department of Biochemistry at the University of Oxford in 1981. He joined the NHLBI in 1982 as a staff fellow in the Laboratory of Kidney and Electrolyte Metabolism. In 1988 he was named the Chief of the newly formed Laboratory of Cardiac Energetics. He was appointed to Scientific Director of the Laboratory Research Program in 1999. He became the overall Scientific Director of the NHLBI intramural program in 2004. In this capacity Dr. Balaban oversees the ~62 basic and clinical laboratories in the intramural research program at the Bethesda campus of the NIH.

Dr. Balaban's current research is in the areas of energy metabolism of the heart, liver and skeletal muscle with the use of optical imaging and spectroscopy, MRI/MRS, 3D high resolution EM and classical biochemical methods. With a focus on in vivo and clinically applicable methods when possible.

Dr. Balaban is the author of over 335 peer reviewed manuscripts and 8 US patent applications.

Dr. Balaban's has been a Trustee and President of the Society for Magnetic Resonance in Medicine/ International Society for Magnetic Resonance in Medicine, 1994-1996; and Trustee and President of the Society for Cardiovascular Magnetic Resonance 1999-2001. He has also a member of The American Physiological Society, The American Society for Cell Biology, The Society of General Physiologist and The Biophysical Society.



ACDP Speaker Biosketches



Jacqueline (Jackie) Limberg, Ph.D.

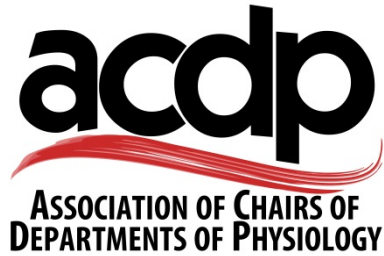
Assistant Professor
Department of Nutrition and Exercise Physiology
University of Missouri

Jacqueline Limberg (Jackie) is in her 6th year as an Assistant Professor of Nutrition & Exercise Physiology at the University of Missouri. Prior to the University of Missouri, Jackie completed her PhD at the University of Wisconsin and postdoctoral training at the Mayo Clinic in Rochester, Minnesota.

Dr. Limberg has broad-based interests in human integrative physiology with a primary focus on the role of the autonomic nervous system in cardiovascular responses to environmental stress. Dr. Limberg was the recipient of an NIH K99/R00 award and has current NIH R01 funding to examine sex-related differences in sympathetic nervous system activation and downstream vascular implications in human obesity.

Dr. Limberg was the 2021 recipient of the Beverley Petterson Bishop Award for Excellence in Neuroscience from the American Physiological Society and the 2022 American Autonomic Society Felicia Axelrod Investigator Award.

Her long-term goal is to uncover mechanisms contributing to the pathogenesis of cardiovascular disease in human obesity to improve the efficacy of current therapies and support the discovery of novel therapeutics.



ACDP Speaker Biosketches



Anne M. Robertson, Ph.D.

Associate Dean for Faculty Development
University of Pittsburgh

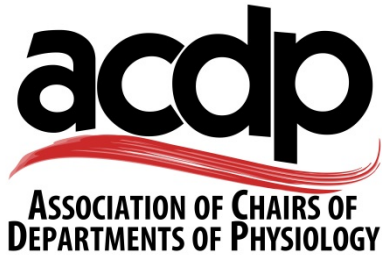
Anne M. Robertson is a Distinguished Service Professor at the University of Pittsburgh and William Kepler Whiteford Endowed Professorship of Mechanical Engineering and Materials Science and Professor of Bioengineering.

Dr. Robertson earned her M.S. and PhD in Mechanical Engineering from the University of California at Berkeley, after which she was a President's Postdoctoral Fellow in the Department of Chemical Engineering, also at University of California Berkeley. She joined the University of Pittsburgh in 1995, where she was the first female tenure track faculty member in Mechanical Engineering.

Dr. Robertson's leadership roles at Pitt have been largely directed at the success of her junior colleagues, including her position as Associate Dean of Faculty Development and founding Director of the Center for Faculty Excellence (CFE) in the Swanson School of Engineering at Pitt. The CFE takes the lead in developing and implementing programs to enhance the effectiveness of junior faculty in building outstanding academic careers. Since its inception in 2015, all 27 junior faculty that have gone up for tenure have been successful.

The focus of Dr. Robertson's research team is understanding the relationship between structure and mechanical function of soft tissue organs such as arteries and the bladder and using this knowledge to improve treatments of disease. She co-directs a multi-institutional program on cerebral aneurysms that is supported by the National Institutes of Health. She served a four-year term as a standing member of NIH Study Section in the National Institute of Neurological Disorders and Stroke (NINDS).

Dr. Robertson is a strong supporter of diversity-related initiatives and in 2007, she received the Robert O. Agbede Faculty Award for Diversity in the SSoE.



ACDP Speaker Biosketches



Scott Steen, CAE, FASAE

Executive Director

The American Physiological Society

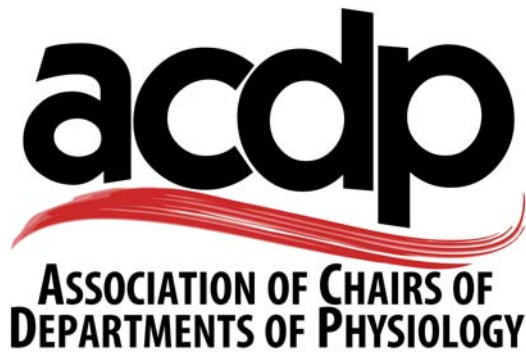
Scott Steen was appointed as the executive director of the American Physiological Society in July of 2018. The Society is a global leader in expanding knowledge related to biological function, championing the importance of physiology for achieving breakthroughs in health, disease, and our understanding of life.

Since joining APS, Scott has led efforts to expand member value, promote scientific excellence, and modernize the Society's operations. During the past four years, he has overseen the launch of several new, high-impact initiatives, including a major organizational rebranding effort; the introduction of a new apex research journal, *FUNCTION*, and *The Physiologist Magazine*; a new website and upgrades to virtually every aspect of the Society's technology infrastructure; the Center for Physiology Education, a community of excellence and resource center focused on how physiology is taught and learned; several new career resources, including Career Gateway, Career Navigator and a new jobs board; and the Society's new annual meeting, the American Physiological Summit, to be launched in 2023. Scott has also guided APS staff through times of major change—including the transformational move to permanent remote work for many employees—while encouraging innovation, excellence and creativity as staff works to support APS members.

Before coming to APS, Scott led two science-focused organizations: the American Ceramic Society – a science and engineering society – and, most recently, American Forests. During his tenure at both organizations, he presided over substantial increases in revenue, membership growth, innovation and member engagement.

While Scott was president & CEO of American Forests, membership tripled, the organization launched several new, high-profile initiatives and operating revenue nearly doubled. The organization also received media coverage in such outlets as *The New York Times*, *USA Today*, *The Washington Post*, and *NPR*, and was named one of the best managed environmental charities in

America by Outside Magazine. Scott has also served as chief strategy officer at the American Society of Association Executives (ASAE) and chief operating officer of the Center for Association Leadership, a think tank and education center for association managers and leaders. Scott is a certified association executive (CAE), a fellow of ASAE.

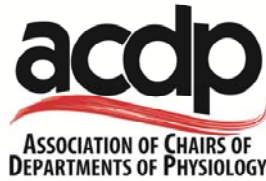


AGENDA
ACDP Business Meeting I

(General membership)

December 2, 2022

- I. Call to order**
- II. Approval of 2021 draft meeting minutes**
- III. Call for names for 2023 Guyton Award Lectureship**
Submit nominations to Nancy Carrasco, Bina Joe or Kebreten Manaye
- IV. Call for names for 2023 Distinguished Service Awardee**
Submit nominations to Kebreten Manaye
- V. Call for nominations for officer positions (President, Councilors, CFAS Representative)**
- VI. Financial Report (Blanco)**
- VII. CFAS Update (Molina, Delamere)**
- VIII. New Business**
 - a. Changes to ACDP Space and Budget Survey – membership survey coming**
 - b. Physiology Core Concepts – current state and how to work with APS and the Center for Physiology Education at APS (Nichols)**
 - c. APS Discount on Membership for ACDP Members**
- IX. Information Only**
 - a. 2022 Horwitz/Horowitz Undergraduate Research Awardees**



**Association of Chairs of Departments of Physiology
Leadership Retreat
Willemstad, Curaçao
December 2-5, 2021**

**ACDP Business Meeting I
Minutes**

- I. Call to Order**

The Business Meeting was convened by President Dale Buck Hales at 11:54 am on December 3, 2021.
- II. Approval of 2019 Draft Meeting Minutes**

The minutes from the 2019 Business Meetings were unanimously approved as submitted. There was no meeting in 2020 because of COVID-19.
- III. Call for names for 2021 Guyton Award Lectureship**

Hales requested nominations from the membership for the 2022 Arthur C. Guyton, Jr. Distinguished Award Lectureship. Any nominations should be sent to President-elect Chris Hardin or second-year Councilors Merry Lindsey or YS Prakash for consideration.
- IV. Call for names for 2022 Distinguished Service Awardee**

Hales also requested that any nominations for the 2022 ACDP Distinguished Service Award be submitted to Hardin for his consideration.
- V. Call for Nominations for Officer Positions**

A call was made for nominations for President-elect, two open Councilor positions and CFAS Representative. The membership was reminded that the nominees for President need to have previously served on Council as either Councilors or Secretary-Treasurer. Because of the small number of members attending the meeting, Council decided not to hold elections during the meeting as is normally done. Instead, nominations will also be requested from the membership (due Dec. 17), and then elections will be held via email (due Dec. 24).
- VI. Financial Report**

The financial report was presented by Secretary-Treasurer Blanco, comparing the 2021 year-to-date budget numbers (as of 9/30/21) to 2020 at the same point in time. Blanco noted that ACDP remains in very good shape financially because of no meeting expenses last year. Membership income is up \$4,750 this year, although the same reminders were sent. It was suggested that with all the budget cuts and disruptions due to COVID-19 last year, many members did not remember or have the funds to pay dues.

Travel expenses were down because the CFAS meeting was virtual so only registration was needed. Meeting expenses are not available yet and funds paid last year were advance payments for this meeting. Dues expenses are for CFAS dues, which were not assessed last year because of COVID-19. At this point in the year, the budget is showing an increase of \$13,417.

VII. CFAS Update

Nicholas Delamere is the current ACDP representative to the Council of Faculty and Academic Societies (CFAS) of the AAMC. Santiago Schnell resigned as the second representative when he accepted a new position as Dean at Notre Dame University. He will be replaced in the election this year. Delamere reminded the group of the history of CFAS. It 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. The other two Councils are the Councils of Deans and of Administrators.

The Spring 2021 CFAS & GFA (Group on Faculty Affairs) meeting was held online April 14-16. Both ACDP Representatives attended and Delamere reminded the group that he had joined the Program Committee which was responsible for setting the program. The agenda for the meeting was: 1) Where are we now? and 2) Where are we headed?

Delamere was one of four speakers in the opening plenary session entitled "State of the faculty during COVID-19". Topics included basic Science Departments, preclinical teaching, graduate student education, and research. Other sessions during the meeting included: 1) Transformative effects of pandemic, 2) Emphasis on wellness and resilience, 3) Diversity, Equity and Inclusion (unequal impact of pandemic), 4) Faculty Affairs (Is delay in the tenure clock a good idea?) and 5) Research.

Schnell spoke on economic aspects of pandemic shutdown which caused PIs to destroy "capital assets". He addressed carryovers of unspent research money on NIH and other grants and spoke in favor of institutions investing in a "Stimulus Package" that funds research as support for Assistant Professors burning through their start-up funds; replacement of resources, e.g., mice, plasmids, cell lines that were ordered destroyed during shutdown; and support for experienced investigators between grants.

Delamere reported that CFAS has 331 total members, of which 121 are Society representatives and 210 are school representatives. Only 85 are chairs or vice chairs.

Adi Haramati (Integrative Physiology Department, Georgetown University) was elected as CFAS President and Delamere was elected to the CFAS Administrative Board to represent Basic Science.

VIII. New Business

A. Continued Support for Horwitz/Horowitz Awards

ACDP has supported the APS Horwitz/Horowitz Undergraduate Research Awards for the past 6 years. The current 3-year agreement ended with the Experimental Biology 2021 meeting. Council recommends re-signing a letter of agreement with APS to support the awards for \$2,100/year for 2022, 2023, and 2024. The membership voted to approve continuing ACDP's support for another 3 years.

B. ACDP Articles of Amendment for Articles of Corporation

Robert Price (APS Director of Finance) filed Articles of Amendment with the State of Maryland and IRS to 1) update ACDP's official name, 2) remove the names of officers on the Articles, and 3) change the ACDP address on Articles. The Articles were accepted.

C. Changes to ACDP Space and Budget Survey

YS Prakash plans to continue working with a subcommittee to develop a questionnaire to send to membership asking what they would find helpful to include in the revised annual survey to make it more useful.

The meeting was adjourned at 12:16 pm until the following day.

ACDP Business Meeting II Minutes

I. Call to reconvene

Hales reconvened the business meeting at 10:58 am on December 4, 2021.

II. Election of Officers

No further nominations were received from the attendees. A call for nominations from the membership will be sent out next week.

III. 2022 ACDP Meeting

President-elect Hardin provided an update on his plans for the 2022 meeting. The meeting will be held on Marathon Island at the Isla Bella Resort. It is not an all-inclusive resort but all meals will be covered except for one lunch and one dinner. Possible excursions include a visit to a turtle hospital and deep-sea fishing expedition. There are many available restaurants nearby. Helms-Briscoe again handled the contract negotiations; Lowy will handle registration through the APS system. Attendees will need to make online hotel reservations and airline reservations on their own. The meeting will occur on December 1-4, 2022.

IV. Adjournment

The meeting was adjourned at 11:16 am.

Respectfully submitted,

V. Gustavo Blanco, M.D., Ph.D.
Secretary-Treasurer

ACDP Distinguished Service Awardees












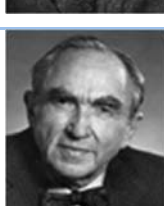



The ACDP Distinguished Service Award is presented annually to someone who has given long and illustrious service to ACDP, physiology as a discipline, and/or the field of science in general.





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.







Year		Name	Year		Name
			2022		Patricia E. Molina, M.D., Ph.D. Louisiana State University Health Sciences Center, New Orleans
2021		Walter F. Boron, M.D., Ph.D. Case Western Reserve University School of Medicine	2020	Leadership Retreat Cancelled	
2019		Gary C. Sieck, Ph.D. Mayo Clinic College of Medicine	2018		Celia D. Sladik, Ph.D. University of Colorado, Denver
2017		Hershel Raff, Ph.D. Medical College of Wisconsin	2016		Susan Barman, Ph.D. Michigan State University
2015		John E. Hall, Ph.D. Univ. of Mississippi Medical Center	2014		Michael J. Joyner, M.D. Mayo Clinic

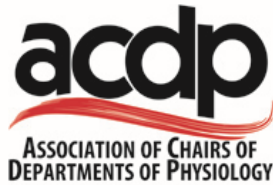
2013		Allen W. Cowley, Jr., Ph.D. Medical College of Wisconsin	2012		Ernest M. Wright, Ph.D., D.Sc. Univ. of California, Los Angeles
2011		R. John Solaro, Ph.D. Univ. of Illinois, Chicago	2010		John A. Williams, M.D., Ph.D. Univ. of Michigan
2009		Phyllis M. Wise, Ph.D. Univ. of Washington	2008		Irving H. Zucker, Ph.D. Univ. of Nebraska Medical Center
2007		William H. Dantzer, M.D., Ph.D. Univ. 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 Univ.	2002		Gabor Kaley, Ph.D. New York Medical College
2001		Mordecai P. Blaustein, M.D. Univ. of Maryland School of Medicine	2000		Paul C. Johnson, Ph.D. Univ. of Arizona School of Medicine
1999		F. Norman Briggs, Ph.D. Medical College of Virginia	1998		Norman R. Alpert, Ph.D. Univ. of Vermont College of Medicine

1997		Carlton C. Hunt, M.D. Washington Univ. School of Medicine	1996		Arthur C. Guyton, M.D. Univ. of Mississippi Medical Center
1995		Aubrey E. Taylor, Ph.D. Univ. of South Alabama College of Medicine	1994		Stanley G. Schultz, M.D. Univ. of Texas, Houston Medical School
1993		Edward J. Masoro, Ph.D. Univ. of Texas Health Science Center at San Antonio	1992		Gerhard H. Giebisch, M.D. Yale Univ.
1991		No Awardee	1990		John T. Shepherd, M.D. Mayo Clinic & Foundation
1989		Walter C. Randall, Ph.D. Loyola Univ. Stritch School of Medicine	1988		William F. Ganong, M.D. Univ. of California, San Francisco
1987		Howard E. Morgan, M.D. Pennsylvania State Univ. Milton S. Hershey Medical Center	1986		Horace Davenport, Ph.D., Sc.D. Univ. of Michigan Medical School
1985		A. Clifford Barger, M.D. Harvard Univ. Medical School	1984		Harry D. Patton, M.D., Ph.D. Univ. of Washington School of Medicine
1983		Ernst Knobil, Ph.D. Univ. of Texas Medical School	1982		Hermann Rahn, Ph.D. Univ. at Buffalo

1981		Robert W. Berliner, M.D. Yale Univ. School of Medicine	1980		George Sayers, Ph.D. Case Western Reserve Univ.
1979		Ewald E. Selkurt, Ph.D. Indiana Univ. School of Medicine	1978		William F. Ganong, M.D. Univ. of California, San Francisco

Outstanding Teaching Awardees

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



Arthur C. Guyton Distinguished Lectureship Awardees

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.

Year		Name	Title of Presentation
2022		Bina Joe, Ph.D. Univ. of Toledo College of Medicine	<i>Physiology Research, Executive Leadership and the Pursuit of Happiness</i>
2021		Christin Carter-Su, Ph.D. Univ. of Michigan Medical School	<i>In Praise of Signal Transduction: Discovery of Pathways Affecting Growth, Obesity and Cancer</i>
2020		Leadership Retreat Cancelled	
2019		John E. Hall, Ph.D. Univ. of Mississippi Medical School	<i>Obesity, Hypertension and Kidney Dysfunction</i>
2018		Frank W. Booth, Ph.D. Univ. of Missouri	<i>Maximal Aerobic Training: An Ultimate Integration of Genes and Systems While Maintaining Homeostatic Harmony</i>
2017		R. John Solaro, Ph.D. Univ. of Illinois, Chicago	<i>Sarcomere Signaling and Guyton's Analysis of Cardiac Output Regulation</i>

2016		Monika R. Fleshner, Ph.D. Univ. of Colorado, Boulder	<i>The Neurobiology and Physiology of Exercise-Induced Stress Robustness</i>
2015		Leslie A. Leinwand, Ph.D. Univ. of Colorado, Boulder	<i>Redefining Snake Oil: Translating Python Biology to Mammalian Hearts</i>
2014		Gordon S. Mitchell, Ph.D. Univ. of Florida (formerly Univ. of Wisconsin, Madison)	<i>Harnessing Intermittent Hypoxia-induced Spinal Motor Plasticity: Breathing and Walking After Spinal Injury</i>
2013		José Jalife, M.D. Univ. of Michigan	<i>Searching For The Holy Grail: Upstream Therapy To Prevent Atrial Fibrillation Progression</i>
2012		Irena Levitan, Ph.D. Univ. of Illinois at Chicago	<i>Cholesterol Regulation of K⁺ Channels: From Biophysics to Vascular Biology</i>
2011		Paul A. Welling, M.D. Univ. of Maryland	<i>Potassium Channels Find Their Way in Membrane Traffic</i>
2010		Ferid Murad, M.D., Ph.D. Univ. of Texas, Houston	<i>Discovery of Nitric Oxide and Cyclic GMP in Cell Signaling and Their Role in Drug Development</i>
2009		Helen H. Hobbs, M.D. Univ. of Texas Southwestern Medical Center	<i>Genetic Protection Against Diseases of Dietary Excess</i>

2008		<p>Eric Olson, Ph.D. Univ. of Texas Southwestern Medical Center</p>	<p><i>Micro RNA, Heart Development and Disease</i></p>
2007		<p>H. Lee Sweeney, Ph.D. Univ. of Pennsylvania</p>	<p><i>Characterization of Myosin Super family and Pharmacological Strategies for the Treatment of Duchenne Muscular Dystrophy</i></p>

*Association of Chairs of Departments of Physiology
Revenue and Expenses and Changes in Net Assets
Year to Date as of September 30, 2022*

	2022 YTD			Totals at 9/30/21	Incr/(Decr)
	Annual Meeting	General	Totals at 9/30/22		
Revenue:					
Dues Income	\$ -	\$ 21,750	\$ 21,750	\$ 19,250	\$ 2,500
Contributions	-	-	-	-	-
Interest Income	-	18	18	7	11
Total Revenue	-	21,768	21,768	19,257	2,511
Expenses:					
Professional Fees	-	3,336	3,336	1,667	1,669
Supplies	-	-	-	216	(216)
Credit Card Processing Fees	-	893	893	486	407
Travel	4,233	325	4,558	250	4,308
Meeting Expenses	3,060	-	3,060	-	3,060
Dues Expense - Associations	-	590	590	580	10
Awards	-	2,100	2,100	2,100	-
Total Expenses	7,293	7,244	14,537	5,299	9,238
Net Revenue/(Expenses)	(7,293)	14,524	7,231	13,958	(6,727)
Net Assets, Beginning of Year			73,803	72,228	1,575
Net Assets, End of Period			\$ 81,034	\$ 86,186	\$ (5,152)

2022 Barbara A. Horwitz and John M. Horowitz Research Awardees

Anna Abraham

Arizona State University, Phoenix

Omar Algothani

The Ohio State University, Columbus

Jared Alvarez

Arizona State University, Phoenix

Cynthia Anyaoku

Gettysburg College, Pennsylvania

Bradley Bedell

University of Oregon, Eugene

Noelle Cataldo

University of Vermont, Burlington

Keishla Colon Montanez

University of Chicago

Abhi Deverakonda

New York University

Emily Ducaji

Mayo Clinic, Rochester, MN

Nafis Eghrari

University of Arizona, Tucson

Lili Galarza

Emory University, Atlanta

Jillian Gore

Oklahoma State University, Stillwater

Nicole Hetrick

University of Dayton, OH

Randa Higazy

Hospital for Sick Children Ajax, Ontario, Canada

Rehan Iftikhar

University of Wisconsin-Madison

Chloe Johnson

Augusta University, GA

Emma Kerkering

Montana State University, Bozeman

Paige Kompa

University of Dayton, OH

Maria Landherr

University of Minnesota, Minneapolis

Camille Landry

Louisiana State University, Baton Rouge

Eric Lis

University of Missouri, Columbia

Daniyal Mehmood

Benedictine University, Lisle, IL

Serena Ortiz

San Jose State University, CA

Byung Joon Pae

Purdue University, West Lafayette, IN

Wyatt Pruter

Mayo Clinic, Rochester, MN

Nicholas Riveira

The University of Texas at Austin

Younes Rouabhi

University of Iowa, Iowa City

Brian Soto Miranda

Alabama Agricultural and Mechanical University, Huntsville

Alexis Taylor

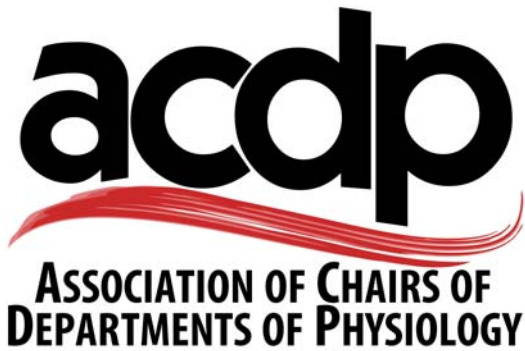
University of Kentucky, Lexington

Carson Wright

Oklahoma State University, Stillwater

Frank Xu

Brigham and Women's Hospital, Boston



AGENDA
ACDP Business Meeting II

(General membership)

December 3, 2022

- I. Call to re-convene**
- II. Election of 2022-2023 Officers**
- III. 2023 ACDP Meeting Plans (Kebreten Manaye)**
- IV. Adjournment**

ACDP 2022 Officers

President (Term ends 2022)



Christopher Hardin, Ph.D.
Dept. of Nutrition & Exercise
Physiology
University of Missouri
Columbia, MO
Phone: 573-882-0183

Email: hardinc@missouri.edu

President-elect (Term ends 2022)



Kebreten F. Manaye, M.D.
Dept. of Physiology & Biophysics
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Email: kmanaye@howard.edu

Past President (Term ends 2022)



Dale Buck Hales, Ph.D.
Department of Physiology
Southern Illinois Univ.
Sch. of Med.
Carbondale, IL
Phone: 618-453-1544

Email: dhales@siumed.edu

Secretary-Treasurer (Term ends 2023)



V. Gustavo Blanco, M.D., Ph.D.
Dept. of Molec. & Integrative
Physiology
Kansas Univ. Medical Center
Kansas City, KS
Phone: 913-588-7400

Email: gblanco@kumc.edu

Councilor (Term ends 2024)



Nancy Carrasco, M.D.
Dept. of Molecular Physiology &
Biophysics
Vanderbilt University
Nashville, TN
Phone: 615-936-7087

Email: nancy.carrasco@Vanderbilt.Edu

Councilor (Term ends 2022) - RESIGNED



C. Lee Cox, Ph.D.
Department of Physiology
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East Lansing, MI
Phone: 517-884-5552
Email: coxcllee@msu.edu

Councilor (Term ends 2024)



Bina Joe, Ph.D.
Dept. of Physiology/Pharmacology
Univ. of Toledo Coll. of Med.
Toledo, OH
Phone: 419-383-4415

Email: bina.joe@utoledo.edu

Councilor (Term ends 2023) - RESIGNED



Merry L. Lindsey, Ph.D.
Dep. Cellular & Integrative
Physiology
Univ. of Nebraska Med. Ctr.
Omaha, NE
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Email: merry.lindsey@unmc.edu

ACDP Officers (Cont'd)

Councilor (Term ends 2022)



Toni R. Pak, Ph.D.
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Maywood, IL
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Councilor (Term ends 2023)



Y S Prakash, M.D.
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Email: prakash.ys@mayo.edu

CFAS Representative (Term ends 2022)



Nicholas A. Delamere, Ph.D.
Department of Physiology
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Phone: 520-626-6425
Email: delamere@arizona.edu

CFAS Representative (Term ends 2024)



Patricia E. Molina, M.D., Ph.D.
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Executive Assistant



Melinda E. Lowy
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Phone: 301-634-7785
Email: acdp@physiology.org



Past Officers of ACDP

ACDP Presidents

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

Year	Name	Institution	Early Term Ending
2022-23	Kebreten F. Manaye, M.D.	Howard University	
2021-22	Christopher Hardin, Ph.D.	University of Missouri	Term extended due to Covid
2019-21	D. Buck Hales, Ph.D.	Southern Illinois Univ. Sch. of Med.	Term extended due to Covid
2018-20	Patricia E. Molina, M.D., Ph.D.	Louisiana State Univ. Hlth. Sci. Ctr.	Term extended due to Covid
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. Dantzer, 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
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

Year	Name	Institution	Early Term Ending
2019-23	V. Gustavo Blanco	Kansas Univ. Med. Ctr.	Term extended due to Covid
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

Year	Name	Institution	Early Term Ending
2021-24	Nancy Carrasco, M.D.	Vanderbilt Univ.	
2021-24	Bina Joe, Ph.D	Univ.of Toledo Coll. of Med.	
2019-23	Merry L. Lindsey	Univ. of Nebraska Med. Ctr.	Term extended due to Covid, resigned summer 2022 as new Dean
2019-23	YS Prakash	Mayo Clinic	Term extended due to Covid
2018-22	C. Lee Cox, Ph.D.	Michigan State Univ.	Term extended due to Covid, resigned summer 2022 as new Dean
2018-22	Toni R. Pak, Ph.D.	Loyola Univ. Chicago	Term extended due to Covid
2017-21	Walter F. Boron, M.D., Ph.D.	Case Western Reserve Univ. Sch. Med.	Term extended due to Covid
2017-21	Gaylen L. Edwards, D.V.M., Ph.D.	Univ. of Georgia Coll. Vet. Med.	Term extended due to Covid
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. Dantzler'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)

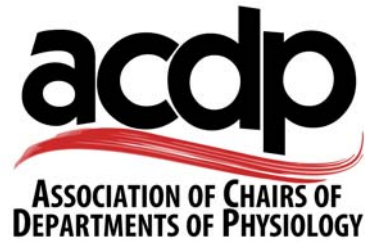
3-yr term; 2 Representatives; renewable terms

Year	Name	Institution	Early Term Ending
2021-24	Patricia E. Molina, M.D., Ph.D.	Louisiana State Univ. Hlth. Sci. Ctr.	
2018-21	Santiago Schnell, D.Phil	Univ. of Michigan Sch. Med.	Finishing C. Webb's term; resigned 8/21 as accepted Deanship
2015-23	Nicholas A. Delamere, Ph.D.	Univ. of Arizona	Term extended due to Covid
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
2011-18	R. Clinton Webb, Ph.D.	Georgia Regents Univ.	Resigned
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

Year	Name	Institution	Early Term Ending
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 CHAIRS OF DEPARTMENTS OF PHYSIOLOGY

CONSTITUTION

(As amended December 01, 2018)

ARTICLE I

The name of this organization shall be the Association of Chairs of Departments of Physiology (ACDP)

ARTICLE II

MISSION

The mission of this Association shall be to promote discussion of problems of interest and concern to chairs* and those associated with promoting the research and teaching missions of departments of physiology.

*The term "chairs" will herein be defined as inclusive of chairs of departments and leaders of academic units responsible for the research and teaching in the discipline of physiology.

ARTICLE III

MEMBERSHIP

- Section 1. The membership of the Association shall include the chairs of departments and programs promoting the discipline of physiology in accredited schools of higher education.
- Section 2. Membership will also be open to individuals in other types of institutions who have similar responsibilities as those indicated in Section 1.
- Section 3. In colleges 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

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

ARTICLE VII

CHARTER MEMBERS

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

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, 6120 Executive Boulevard, Suite #600, Rockville, MD 20852-4906.

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. Upon approval of the Board of Directors, membership will also be open to:

- a. individuals in other types of institutions who have similar responsibilities, \
- b. the administrative officer or program leader of an academic unit responsible for the discipline of physiology in colleges lacking a department of physiology, and
- c. chairs of physiology at undergraduate institutions

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 ACDP meetings shall be limited to members (or their designees) 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 outside 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. In the case of any special meeting, the notice 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 rescheduled 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 of 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. If at any meeting less than a quorum shall be present, a majority of those present may adjourn the meeting from time to time. 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. 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 Faculty and Academic Societies ("CFAS") of the Association of American Medical colleges ("AAMC"). The CFAS 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 three (3) years.

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 shall 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 her or his 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. Other officers including a Chair of the Board may be appointed by the Board of Directors from time to time as necessary for the proper conduct of the business of the Corporation. The President and President-elect shall be elected annually by the ACDP members at the annual meeting of the members. The Secretary/Treasurer shall be elected every three years by the members at the annual member's meeting. 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. In case of her/his 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/her possession or under his/her 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. 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. 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 a 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 12/2018