

# ACDP News

## Association of Chairs of Departments of Physiology Leadership Retreat Highlights

The Association of Chairs of Departments of Physiology (ACDP) held its annual Leadership Retreat at Gamboa Rainforest Resort in Gamboa, Panama, on December 4-7, 2014.

President Nick Delamere (University of Arizona) developed a program focused on issues being currently faced by department chairs and the discipline of physiology.

Research talks included the eighth annual Arthur C. Guyton Lectureship given by Gordon Mitchell (Univ. of Florida, formerly Univ. of Wisconsin) on "Harnessing Intermittent Hypoxia-induced Spinal Motor Plasticity: Breathing and Walking After Spinal Injury." The new chair research presentation was by Donald Gill (Pennsylvania State Univ., Hershey) on "Transducing Calcium Signals." He also touched on his background as having been a chair twice but for departments in two different disciplines.

The 2014 ACDP Distinguished Service Award was presented to Michael Joyner (Mayo Clinic), who gave a much discussed talk entitled "Chasing Mendel vs. the Future of Physiology." Because of his challenge to the group, it was agreed that a new report on the future of physiology in medical education would be drafted in conjunction with APS.

Three workshops were held based on topics selected by last year's attendees. The first was led by Michael Sturek (Indiana Univ.) and Gordon Mitchell on "Quantifying Faculty Effort and Eking Out Departmental Resources."

A presentation by Thomas Pressley (Texas Tech Univ.) on "Winds of Change: 3-Year Medical School, Online Teaching and Other Interesting Developments" started off the discussion of teaching medical students. This was followed by a workshop led by Pressley and Michael Joyner on "Physiology's Place in the Academic Medical Center."

The third workshop was on "Undergraduate Teaching and the Physiology Pipeline," led by Christopher Minson (Univ. of Oregon) and Patricia Molina (Louisiana State Univ., New Orleans). As part of his presentation, Minson presented data collected by a group of undergraduate educators led by Erica Wehrwein (Michigan State Univ.). After discussion, the group decided to work on a base curriculum for an undergraduate physiology program that could be finalized at the 2015 Leadership Retreat. Also discussed was a certification program for undergraduate physiology programs.

Martin Frank, APS Executive Director, updated the group on "Status and Initiatives of the APS."



ACDP President Nick Delamere presents Gordon Mitchell (*right*) with the 2014 ACDP Guyton Lectureship Award



ACDP President Nick Delamere presents Klaus Winter (*left*) with a certificate of appreciation for his Smithsonian lecture



ACDP Council. *Back (left to right):* Janice Urban, Nicholas Delamere, Michael Sturek, T. Richard Nichols, Pieter de Tombe, Kebreten Manaye, M. Bishr Omary, D. Buck Hales. *Front (left to right):* Chris Cheeseman, Charles Wood, Elsa Mangiarua. *Not pictured:* Muthu Periasamy, Joseph Metzger, R. Clinton Webb

One of the highlights of having the meeting in Panama was the nearby Smithsonian Tropical Research Institute. Many of the attendees had the pleasure of touring Barro Colorado Island, the largest forested island in the Panama Canal waterway, which is part of the Barro Colorado Nature Monument. All attendees and guests had the experience of visiting a research station near

the hotel to hear Klaus Winter, a Smithsonian Senior Staff Scientist, talk about his research on tropical plants that exhibit different modes of photosynthesis, varying mechanisms of stress tolerance, and differences in resource-use efficiency.

Officer elections were held with the following results. T. Richard Nichols (Georgia Institute of Technology) was elected President-elect; D. Buck Hales (Southern Illinois Univ.) and Kebreten F. Manaye (Howard Univ.) were elected to 3-year terms as Councilor. R. Clinton Webb (Georgia Regents Univ.) was re-elected to another 3-year term as Council of Faculty and Academic Societies (CFAS) representative; and Elsa I. Mangiarua (Marshall Univ.) was elected to a 1-year term as CFAS representative to fulfill an unexpired term.

Muthu Periasamy (Ohio State Univ.) was thanked for his service as Past-President. Bishr Omary (Univ. of Michigan) and Charles E. Wood (Univ. of Florida) were thanked for their service as Councilors.

President-elect Michael Sturek (Indiana Univ.) announced the 2015 ACDP Leadership Retreat will be Dec. 3-6 at Dreams Sugar Bay Hotel in St. Thomas. As details are available, they will be added to the 2015 meeting webpage at [www.acdpnline.org/](http://www.acdpnline.org/).



Gamboa Rainforest Resort Hotel

The Leadership Retreat is open to chairs of departments of physiology or related areas, graduate directors in physiology or related areas, medical/osteopathic/veterinary physiology course directors, and undergraduate program directors. The meeting will build upon this year's topics and will continue to focus on leadership issues and other areas of broad interest to those audiences. ●

## Joyner Honored at Annual ACDP Meeting

The highest award given by the Association of Chairs of Departments of Physiology (ACDP), the Distinguished Service Award, was presented to Michael J. Joyner, Frank R. and Shari Caywood Professor of Anesthesiology, Department of Anesthesiology, Mayo Clinic, during the organization's 2014 Leadership Retreat at Gamboa Rainforest Resort in Panama. Nick Delamere (Univ. of Arizona), President of ACDP, presented the award.

Joyner was selected to receive the ACDP Distinguished Service Award for his constant thoughtful and demanding look at the future of the discipline of physiology and its place in medical education, as well as for his contributions to scientific discovery and the promotion of the discipline of physiology.

Joyner received a BS in Nutrition and Food Science at the University of Arizona. He remained there for his MD degree. He completed both his internship and his residency at Mayo Graduate School of Medicine, Mayo Clinic College of Medicine, before joining the Department of Anesthesiology as first a consultant and then a faculty member. Joyner also has joint appointments in the Departments of Physiology and Biomedical Engineering and of Molecular Pharmacology and Experimental Therapeutics. Joyner has been the Frank R. and Shari Caywood Professor of Anesthesiology at the Mayo Clinic since 2009. He was named the Director of Consortia Development at the Mayo Clinic Center for Translational Science Activities in 2012.

Joyner has been the recipient of a multitude of awards during his career for his teaching, mentorship, and research from both universities and various societies. He was named a Distinguished Mayo Investigator by the Mayo Clinic in 2010. The American Society of Anesthesiologists gave him both their FAER Honorary Lecture Award and their Mentorship Award in 2011. APS honored him with the Edward F. Adolph Distinguished Lectureship Award in 2011, followed by the Walter B. Cannon Award (APS's highest award) in 2013 and the Bodil M. Schmidt-Nielsen Distinguished Mentor and Scientist Award in 2014.

Joyner has mentored almost 100 undergraduate students, 20 medical students, 10 medical residents, 5



ACDP President Nick Delamere presents Michael Joyner (left) with the 2014 ACDP Distinguished Service Award

graduate students, 30 postdoctoral fellows, and several visiting scientists in his lab. He also writes a blog on Human Limits at [drmichaeljoyner.com](http://drmichaeljoyner.com).

Joyner's research focuses on how humans respond to various forms of physical and mental stress during activities such as exercise, hypoxia, standing up, and blood loss. He and his team study how the nervous system regulates blood pressure, heart rate, and metabolism in response to these forms of stress. They also are interested in how blood flow to muscle and skin responds to these stressors. These responses are studied in young healthy subjects, healthy older subjects, and people with conditions such as heart failure. Joyner is personally interested in the role of integrative approaches in science as a powerful tool to integrate and critique data from reductionist approaches.

By studying normal physiology and how it is affected by aging, sex, and disease, Joyner is able to gain insight into what body systems are potential therapeutic targets for intervention. This research also provides insight into the many complex mechanisms that operate together to keep us healthy and able to adapt to the demands of life – or fail in a way that makes us unable to adapt.

Because of his scientific endeavors, his dedicated service to the field of physiology, and his distinguished service to APS and other scientific organizations, the ACDP was proud to present its 2014 Distinguished Service Award to Michael J. Joyner.