Abstract:
July 9
Advance Registration: September 5
Housing: September 12

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DATE & LOCATION
October 5-8, 2014
Town and Country Resort
and Conference Center
San Diego, California

the-aps.org/comparative
PURPOSE OF MEETING:
Comparative physiology takes advantage of the diverse evolutionary histories and ecological settings of animals. By definition, comparative physiology is broad, spanning a variety of animal taxa occurring in diverse environmental settings, and studied at many levels of biological organization (from molecular physiology to physiological ecology). This breadth allows comparative physiology to (a) understand basic physiological processes and (b) identify novel mechanisms used by animals to solve specific physiological challenges.

This meeting will draw comparative and evolutionary physiologists from around the world to present and discuss recent advances in animal physiology. The three and a half day meeting will feature fifteen symposia, 2 plenary lectures, 2 workshops, and multiple sessions for contributed abstracts as oral or poster presentations. This meeting will include the 2014 Scholander Award competition for young comparative physiologists, plus other trainee awards and activities.

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LOCATION: San Diego, California
As California’s second largest city, San Diego is a lively town with lots to do. Its southern location offers a beautiful Mediterranean-like climate, ideal for all types of outdoor activities. Visit the Coronado Peninsula and see the number one rated beach in the United States (ranking by Dr. Beach). Don’t miss out on exploring the historic Hotel del Coronado while here. Another must-see is Balboa Park. Ranked as one of the best parks in the World, Balboa Park has 15 museums, spectacular gardens, and world renowned attractions including the San Diego Zoo. This only names a few of the exciting activities and attractions in this great city.

The Town and Country Resort and Conference Center is easily accessible from the San Diego International Airport being only a 10 minute ride away. Temperatures in this area during October usually range from the comfortable low 70's to low 80's. For more information of the hotel, please visit: www.towncountry.com.

For more information on San Diego, please visit www.sandiego.org.

ORGANIZING COMMITTEE:

Bernard Rees, PhD (Chair)
University of New Orleans

Sinya Benyajati, PhD
University of Oklahoma Health Sciences Center

Heidy Contreras, PhD
University of La Verne

Peter Frappell, PhD
University of Tasmania, Australia

Greg Goss, PhD
University of Alberta, Canada

Jon Harrison, PhD
Arizona State University

Scott Kirkton, PhD
Union College

Matthew McHenry, PhD
University of California, Irvine

Holly Shiels, PhD
University of Manchester, United Kingdom

Jonathon Stillman, PhD
San Francisco State University

Tobias Wang, PhD
Aarhus University, Denmark

Cassondra Williams, PhD
University of California, Irvine

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CONCURRENT SYMPOSIA PROGRAM: TRACK A
Track A: Physiological Responses to Extreme or Changing Environments

Physiological Adaptations to Extremes: Providing Novel Animal Models for Investigating Health and Disease
Chairs: James Hicks and Tobias Wang
Speakers: Michael Joyner, Seth Donahue, Leslie Leinwand, Phil Bickler

Cardiorespiratory Physiology of Vertebrate Extremophiles
Chairs: Jessica Meir and Graham Scott
Speakers: Jessica Meir, Brian Barnes, Göran Nilsson, Graham Scott

Overcoming a Major Physiological Barrier: Adaptation from Saline to Freshwater Habitats
Chairs: Guy Charmantier and Carol Lee
Speakers: Carol Lee, Patricia Schulte, Jonathan Wilson, Guy Charmantier

Responses to Global Change: Acclimatize, Adapt or Die
Chairs: Gretchen Hofmann, Morgan Kelly, and Tyler Evans
Speakers: Lauren Buckley, Cheryl Logan, Morgan Kelly, Ary Hoffmann

Molecular and Physiological Features of Animal Diapause
Chair: Steven Hand
Speakers: Richard Roy, David Denlinger, Jason Podrabsky, Steven Hand

WORKSHOP I
Trainee Workshop: Non-Traditional Career Paths for Comparative Physiologists
Chairs: Cassondra Williams and Bernard Rees
Speakers: Shawn Noren-Kramer, Karen Kalumuck, Dorian Houser, Scott Kirkton, Robert Swezey
CONCURRENT SYMPOSIA PROGRAM: TRACK B

Track B: Evolutionary and Developmental Physiology

Genomics in Integrative and Comparative Physiology
Chair: Douglas Crawford
Speakers: Kristi Montooth
         James Marden
         Andrew Whitehead
         Mikko Nikinmaa

Diverse Approaches in Evolutionary Physiology
Chair: Theodore Garland, Jr.
Speakers: Scott Kelly
         Anne Bronikowski
         Jay Storz
         Joe Thornton

Challenges from the Very Beginning: Developmental Physiology, Epigenetics, and Critical Windows
Chairs: John Eme and Casey Mueller
Speakers: Casey Mueller
         Simon Rundle
         Robert Roghair
         Warren Burggren

Evolutionary and Developmental Origins of Endothermy
Chairs: Tomasz Owerkowicz and Edward Dzialowski
Speakers: Glenn Tattersall
         Peter Frappell
         Marek Konarzewski
         Edward Dzialowski

New Perspectives on the Ecology and Evolution of Homeostasis
Chairs: Lynn Martin and H. Art Woods
Speakers: Jay Schulkin
         Molly Dickens
         Lynn Martin
         H. Art Woods

WORKSHOP II

The Challenge of Teaching Physiology in a Changing Environment: Innovation and Resources
Chairs: Tom Ecay and Karen Sweazea
Speakers: Cynthia Bauerle
         Barbara Goodman
         Douglas Luckie
         Jenny McFarland
         Miranda Byse
CONCURRENT SYMPOSIA PROGRAM: TRACK C

Track C: Transport, Digestion, and Locomotion

Frontiers in Insect Homeostasis—Advantages and Exploitation
Chairs: Julian Dow and Michael Romero
Speakers: Patricia Pietrantonio
Helmut Wieczorek
Ed Blumenthal
Peter Piermarini

Recent Ideas and Technological Advances in Comparative Epithelial Physiology
Chairs: Martin Tresguerres and Greg Goss
Speakers: Greg Goss
Martin Grosell
Catherine Lorin-Nebel
Martin Tresguerres

Comparative Gastrointestinal Physiology: From Genes to Animal Performance
Chair: Donovan German
Speakers: William Karasov
Stephen Secor
Kendall Clements
Donovan German

Determinants of Skeletal Muscle Diversity
Chairs: Manny Azizi and L. Patricia Hernandez
Speakers: Peter Reiser
Ruud Schilder
Bryan Rourke
Henry Astley

Linking Behavior and Physiology in Animal Navigation and Orientation
Chairs: Jochen Smolka and Basil el Jundi
Speakers: Christine Merlin
Michael Yartsev
Marie Dacke
Basil el Jundi
Michael Dickinson

View a meeting preview video at http://bit.ly/CEPPreview

For more information or to register, please visit: the-aps.org/comparative or scan this code

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