

**Comparative Physiology 2006: INTEGRATING DIVERSITY**

October 8-11, 2006, Virginia Beach, Virginia

M E E T I N G P U R P O S E

**T**he comparative approach to physiology seeks to use the diversity of organisms as a framework for studying physiological processes. Ranging from molecular mechanisms of osmoregulation or nutrient transport, to study of the evolution of physiological traits, comparative physiology explicitly recognizes that unifying principles can be derived from studies of animals from diverse environments and evolutionary histories. This conference aims to exemplify this

**DEADLINES:****Abstract:**  
**June 1, 2006****Registration:**  
**September 1, 2006**

breadth of approaches and applications. Some sessions will highlight technical advances (e.g. applications of genomics, of satellite-based telemetry, and of physiological modeling), while others will emphasize areas of biomedicine that could receive important insights from comparative physiology (e.g. symposia on the physiology of long-lived animals and on gasotransmitters). The program will highlight accomplishments that have occurred since the last large comparative meeting and will provide a forum to showcase new directions and approaches.

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Institute for Desert Research**Nora Terwilliger**  
Oregon Institute of Marine  
Biology, University of Oregon**PRELIMINARY PROGRAM:****PLENARY LECTURES:****The Physiology of Long-Distance Avian Migration**Theunis Piersma  
Animal Ecology Group,  
University of Groningen,  
the Netherlands**Steroid Regulation of Amphibian Developmental Physiology and Behavior**Tyrone Hayes  
Department of Integrative  
Biology, University of California,  
Berkeley**Survival Physiology: A Reassessment of why Big, Fierce Animals are Rare**Terrie Williams  
Center for Ocean Health,  
University Of California,  
Santa Cruz**The Comparative/Ecological Physiology of Nectar-feeding Birds: The Last 15 Years**Carlos Martinez del Rio  
Department of Zoology and  
Physiology, University of  
Wyoming**Necrophysiology**David Jones  
Department of Zoology,  
University of British Columbia**SYMPOSIA****Passing Gas: The Vascular Biology of NO, CO and H<sub>2</sub>S**Kenneth Olson (Chair)  
Kanji Nakatsu  
Rui Wang  
John Donald  
Ryan Dombkowski  
Marcos Intaglietta**Design - Molecular Basis and Evolution of Muscles for Different Activities**Larry Rome (Chair)  
James Marden  
Barbra Block  
Harold Zakon  
Peter Reiser  
Jonathan Davis**Complexity in Physiological Systems: Recognition, Definitions, Modeling, and Predictions**Warren Burggren (Chair)  
Michael Monticino  
Michele Wheatly  
Ray Huey  
Ione Hunt von Herbing  
Karl Young**Energizing Transport across Epithelia in Insects**Klaus W. Beyenbach (Chair)  
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Marina Marjanovic (Chair)  
Elizabeth Crockett  
Stephen Loomis  
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Paul Yancey**Linking Body Size and Physiology with Life History: Walking in the Footsteps of Bill Calder**Todd J. McWhorter (Chair)  
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Ursula Windberger**Comparative Molecular Physiology of Acid-base Regulation**Greg Goss (Chair)  
Steve Perry  
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Bernd Pelster**Aquaporins and Aquaglyceroporins in Vertebrates: Evolution and Diversity**Hiroko Nishimura (Chair)  
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Robert K. Josephson  
Paul LaStayo**Comparative Nutritional Physiology: Nutrient and Toxicant Absorption, Postabsorptive Fate, and Ecological Implications**William Karasov (Chair)  
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