



UNIVERSITY OF SOUTHERN CALIFORNIA

15th Annual Workshop
Biomedical Simulations Resource (BMSR)

Models of Respiratory-Cardiovascular Interactions During Sleep

June 17, 2000
Monte Carlo Resort & Casino
3770 Las Vegas Blvd.
Las Vegas, Nevada

Organized by
Michael C.K. Khoo, Ph.D.

Sponsored by
Biomedical Technology Program
National Center for Research Resources
National Institutes of Health



THE
BMSR

Biomedical Simulations Resource
University of Southern California
3650 McChesney Avenue Olin Hall 500
Los Angeles, CA 90089-1451
Tel: (213) 746-0342
Fax: (213) 740-0343
<http://bmsr.usc.edu>

Workshop Schedule

7:30 - 8:00	Registration & Continental Breakfast	
8:00 - 8:10	Introduction & Overview	Michael C.K. Khoo <i>University of Southern California</i>
8:10 - 8:50	Respiratory and Cardiovascular Variability During Sleep Onset	John Trinder <i>University of Melbourne</i>
8:50 - 9:30	Dynamic Aspects of Cardiovascular Control from the Beat-to-Beat Analysis of 24-hour Blood Pressure and Heart Rate Variability	Marco Di Rienzo <i>LaRC - Centro di Bioingegneria</i>
9:30 - 10:10	Closed and Open Loop Control of Beat-to-Beat Heart Rate and Blood Pressure: Models, Data and Respiratory Interactions	J. Philip Saul <i>Medical University of South Carolina</i>
10:10 - 10:30	Break	
10:30 - 11:10	State-related Cardiovascular and Respiratory Interactions: Protective Mechanisms During Challenges	Ronald M. Harper <i>University of California, Los Angeles</i>
11:10 - 11:50	Acute Neurocirculatory Consequences of Apnea, Hypopnea, and Arousal	Barbara J. Morgan <i>University of Wisconsin-Madison</i>
11:50 - 1:00	Lunch	
1:00 - 1:40	Autonomic Cardiovascular Control in Obstructive Sleep Apnea	Virend K. Somers <i>Mayo Clinic</i>
1:40 - 2:20	Respiratory-Cardiovascular Interactions in a Model of Sleep Apnea	Eliot A. Phillipson <i>University of Toronto</i>

2:20 - 2:40	Break	
2:40 - 3:20	Cardiopulmonary Interactions in Sleep Apnea and Heart Failure: Influence of CPAP	T. Douglas Bradley <i>University of Toronto</i>
3:20 - 4:00	Modeling of Autonomic Cardiovascular Control in Obstructive Sleep Apnea	Michael C.K. Khoo <i>University of Southern California</i>
4:00 - 5:00	Summary & General Discussion	Philip R. Westbrook <i>Pacific Sleep Medicine</i>
5:00 - 6:30	Reception	Micro Brewery

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DIRECTORY OF PARTICIPANTS

Vasily Belozeroff
726 N. Gramercy Pl., #304
Hollywood, CA 90038

Donald L. Bliwise
1155 Norwich Circle
Atlanta, GA 30324

T. Douglas Bradley
University of Toronto
Department of Medicine
ES12-421, Toronto General Hospital
200 Elizabeth St.
Toronto, Ontario M5G 2C4
CANADA

Michael J. Decker
Emory University- School of Medicine
Department of Neurology
Woodruff Memorial Research Bldg.
Suite 6000
1639 Pierce Drive
Atlanta, GA 30322

Marco Di Rienzo
LaRC-Centro di Bioingegneria
Via Capecelatro 66
Milano 20148
ITALY

Christopher L. Drake
222 Virginia Avenue
Royal Oak, MI 48067

Hsing-Hua Fan
University of Southern California
Biomedical Engineering
Olin Hall 500
Los Angeles, CA 90089-1451

Robert B. Fogel
2 Auburn Court #2
Brookline, MA 02446

Barbara Gothe
2053 Staunton Rd.
Cleveland, OH 44106

Ronald M. Harper
University of California Los Angeles
Department of Neurobiology
Los Angeles, CA 90095-1763

Javier Antonio Jo
2346 Portland Street
Los Angeles, CA 90007

Peretz Lavie
Technion-Israel Inst. of Technology, Sleep
Laboratory
Gutwirth Bldg.
Technion City
Haifa 32000
ISRAEL

Stuart J. Menn
Pacific Sleep Disorders Service
La Jolla Center
9834 Genesee Avenue
Suite 328
La Jolla, CA 92037-1205

Thomas W.F. Penzel
Medical Policlinic of Philipps- University
Baldingerstr 1
D-35033 Marburg
GERMANY

William Gruen
Ambulatory Monitoring Inc.
731 Saw Mill River Road
Ardsley, NY 10502

David W. Hudgel
MetroHealth Medical Center
Pulmonary Division
2500 MetroHealth Drive
Cleveland, OH 44109-1998

Michael C.K. Khoo
University of Southern California
Olin Hall 500
Los Angeles, CA 90089-1451

Atul Malhotra
64 Halifax Street
Jamaica Plain, MA 02130

Barbara J. Morgan
University of Wisconsin-Madison
Department of Surgery
1300 University Avenue
5110 MSC
Madison, WI 53706-1532

Eliot A. Phillipson
University of Toronto
Department of Medicine
585 University Avenue
Suite BW 1-628
Toronto, Ontario M5G 2C4
CANADA

Stephen D. Pittman
Brigham and Women's Hospital
Sleep Disorder Program
221 Longwood Avenue, RFB-483
Boston, MA 02115

Federica Provini
University of Bologna
Institute of Neurobiology
Via Ugo Foscolo 7
Emilia-Romagna 40132
ITALY

J. Philip Saul
Medical University of South Carolina
Pediatric Cardiology
165 Ashley Avenue
P.O. Box 250915
Charleston, SC 29425-0680

Virend K. Somers
Mayo Clinic Rochester
Division of Hypertension & Cardiology
200 First Street Southwest
Rochester, MN 55905

Michael Stanchina
Harvard Medical School
Brigham & Women's Hospital
68 Willow Street
Westwood, MA 02090

John Trinder
University of Melbourne
Department of Psychology
Parkville, Victoria 3052
AUSTRALIA

Edwin Valladares
University of Southern California
Biomedical Engineering
Olin Hall 500
Los Angeles, CA 90089-1451

Michael Welzig
Medical University of South Carolina
165 Ashley Avenue
P.O. Box 250915
Charleston, SC 29425

Philip R. Westbrook
104 E. Olive Avenue
Redlands, CA 92373