The University of Texas at Arlington
The Department of Kinesiology

presents

37th Semi-Annual Lecture

Texas American College of Sports Medicine

With

Ross G. Querry P.T., Ph.D.
Assistant Professor, Department of Physical Therapy
The University of Texas Southwestern Medical Center

LECTURE:
“Advancing Technology In Exercise for Rehabilitation”

Wednesday, April 6, 2005 – 12:00 Noon
Activities Building Lone Star Auditorium

PREVIOUS UTA ACSM LECTURERS

Spring, 1987  Russell R. Pate, Ph.D.  University of South Carolina
“Physiologic Determinants of Endurance Performance”

Fall, 1987  Eddie F. Coyle, Ph.D.  The University of Texas at Austin, “Adaptations to
Endurance Training Maintained During Periods of Physical Inactivity”

Spring, 1988  Brian J. Whipp, Ph.D., Harbor-UCLA Medical Center
“Coupling of Ventilation to Metabolism During Exercise”

Fall, 1988  George A. Ordway, Ph.D., The University of Texas Southwestern Medical
School, “Adaptation of the Peripheral Vasculature as a Function of Exercise Training”

Spring, 1989  Charlotte A. Tate, Ph.D., Baylor College of Medicine
“Adaptation of the Heart to Exercise During Old Age”

Fall, 1989  Robert B. Armstrong, Ph.D., University of Georgia
“Mechanisms Underlying Exercise-Induced Muscle Injury”

Spring, 1990  William J. Gonyea, Ph.D., The University of Texas Southwestern Medical
School “Skeletal Muscle Adaptation to Heavy Resistance Training”

Fall, 1990  Victor A. Convertino, Ph.D., NASA, Kennedy Space Center
“Considerations for Use of Exercise as Countermeasures for Space Adaptation”

Spring, 1991  Steven N. Blair, P.E.D., Institute for Aerobics Research
“Physical Activity, Physical Fitness, and the Public’s Health”

Fall, 1991  Benjamin D. Levine, M.D., The University of Texas Southwestern Medical Center
“Human Performance Physiology: At the Top of the World and Above”

Spring, 1992  John L. Ivy, Ph.D., The University of Texas
“Enhancement of Muscle Glycogen Resynthesis Post Exercise”

Fall, 1992  Charles J. Dillman, Ph.D., Steadman Sports Medicine Institute
“Overview of New U.S. Olympic Program”

Spring, 1993  Jere H. Mitchell, M.D., The University of Texas Southwestern Medical Center
“Athlete’s Heart”

Fall, 1993  Charles M. Tipton, Ph.D., University of Arizona
“The Role of Exercise Training in the Management of Hypertension”

Spring, 1994  James A. Pivarnik, Ph.D., Baylor College of Medicine, Houston
“Exercise Pregnancy: Current Findings vs. Historical Guidelines”

Fall, 1994  James A. Pawelczek, Ph.D., Presbyterian Hospital of Dallas, Institute for
Exercise and Environmental Medicine, “Neural Control of Circulation During Exercise”

Spring, 1995  F. Marty Ivey, M.D., The University of Texas Medical Branch at Galveston,
“Diagnosis and Treatment of Acute Knee Ligament Injuries”

Fall, 1995  Eric Poehlman, Ph.D., University of Maryland at Baltimore,
“Metabolic Control and Aging”

Spring, 1996  James Stray-Gundersen, M.D., The University of Texas Southwestern Medical
Center, “Living High, Training Low: A Method to Improve Sea Level
Performance”

Fall, 1996  Rod K. Dishman, Ph.D., University of Georgia, “Fighting Sloth: Factors
Related to Adherence to Exercise and Wellness Programs”

Spring, 1997  Suzanne M. Fortney, Ph.D., NASA—Johnson Space Center, “Exercise
Countermeasures for Long Duration Space Flights”

Fall, 1997  W. Larry Kenney, Ph.D., The Pennsylvania State University, “Age, Fitness and
Temperature Regulation”
Ross G. Querry, P.T., Ph.D.

**Dr. Querry is the first UTA Bachelor of Science in Exercise Science graduate (1995) and the first UTA alumnus to give the UTA/ACSM lecture**

Ross G. Querry, P.T., Ph.D., is an Assistant Professor in the Department of Physical Therapy in the Southwestern Allied Health Sciences School at The University of Texas Southwestern Medical Center of Dallas. He received a Bachelor of Science degree in Exercise Science from the University of Texas at Arlington (the first graduate of the program in 1995). He completed his Ph.D. in Biomedical Science (Physiology) from the Department of Integrative Physiology at the University of North Texas Health Science Center at Fort Worth, TX followed by a post-doctoral fellowship and Master's degree in physical therapy from Texas Woman's University. He joined the UTSW physical therapy department in 2001.

In addition to the honor of receiving the first UTA Bachelor of Science in Exercise Science degree in 1995, Ross G. Querry was awarded the first UTA Symposium on Undergraduate Research and Creative Activity (SURCA) first place award for his research entitled “Limb vascular responsiveness to adrenergic agonists following physical deconditioning.” SURCA is the predecessor to the current UTA Annual Celebration of Excellence by Students (ACES) which occurred on campus last Friday. The first place award winning SURCA research in 1995 was the result of his class project research in KINE 4300, Applied Exercise Physiology, which includes data collection, analysis, and presentation in the form of a poster session, oral presentation, and manuscript for the UTA Journal of Applied Ex Phys. Additionally, Ross received the second place student award at the 1996 Texas Chapter of the American College of Sports Medicine Annual Meeting for his oral presentation “Comparison of non-invasive vs. invasive measurements of arterial blood pressure during dynamic exercise to fatigue.” As a graduate student Ross also received the Texas Chapter of the American College of Sports Medicine grant ($2,500) for “Carotid baroreflex function during prolonged exercise” in 1998. While at UTA, he also was awarded the Judl Ramsay Memorial Scholarship in 1994.

Dr. Querry has received $135,000 in funded research grants as a principal investigator in addition to another $2,280,000 as a co-investigator. The funded grant research awards range from “Cortical Brain Activation and Reorganization during Robotic Training following Spinal Cord Injury” to “Project ALLIFE - Exercise and Leukemia Survivors” to “Areas of Cortical Activation Involved with Selective Carotid Baroreflex Stimulation to Cerebral Cortical Sites of Cardiovascular Regulation.” Dr. Querry has teaching responsibilities in the following courses at UT Southwestern: Cardiopulmonary Patient Management, Thermal and Mechanical Agents, Therapeutic Exercise, Clinical Correlations, Lifespan Development, and Clinical Pathology II. He is a member of four professional societies including the American Physical Therapy Association, American College of Sports Medicine, American Physiological Society, and the Society for Experimental Biology.

Dr. Querry’s physical therapy clinical practice is a blend of orthopedic and neurological impairments. He has continued his research in the area of neurological control of arterial pressure regulation, but has also been involved with a collaborative team researching the effects of locomotor rehabilitation in patients with spinal cord injury utilizing manual and robotic controlled bodyweight supported treadmill training. Since completing his Ph.D. he has co-authored 12 peer-reviewed research papers in journals such as the Journal of Physiology, Journal of Applied Physiology, American Journal of Heart and Circulatory Physiology, and Medicine and Science in Sports and Exercise. Dr. Querry also has 24 published refereed journal abstracts from professional conference presentations including the Society for Experimental Biology and Medicine, Federation of American Society for Experimental Biology, and Medicine and Science in Sports and Exercise. Dr. Querry reviews for journals including Medicine and Science in Sports and Exercise, and the Journal of Applied Physiology.

There will be a brief question and answer period at the end of the presentation. Please welcome Dr. Querry to UTA and give him your attention until the end of the question and answer session.