

Department of Biomedical and Molecular Sciences

Principal's Development Fund for Visiting Scholars

Principal Visiting Scholar – Translational Seminar



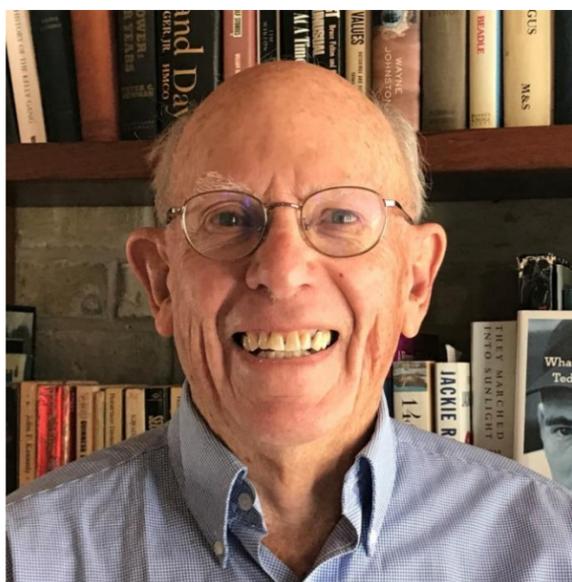
Thursday, November 7th, 2024

10:30 – 11:20 am

Dunning Hall 11

Or via Zoom: <https://queensu.zoom.us/j/99501720970?pwd=2GhRPt9TaufhOYcowFpxh7oJulqbVe.1>

PW: 612742



Professor Emeritus Dr. Jerome Dempsey, PhD

University of Wisconsin, Madison

Departments of Population Health Sciences, Physiology and Kinesiology

Feedback regulation of Exercise Physiology and Performance

Dr. Dempsey will discuss the obligatory contributions of three types of neural feedback, namely locomotor muscle afferents, respiratory muscle afferents and carotid chemoreceptors, to the ventilatory and cardiovascular responses to exercise and to exercise limitation. Emphasis will be on the role of these feedback mechanisms in healthy humans and animals, with translational reference to their upregulation or dysregulation in chronic cardiorespiratory diseases.

Dr. Jerome A. Dempsey was born and raised in London, ON and educated at Western University, University of Alberta and University of Wisconsin. Over six decades he and his colleagues at the Rankin Laboratory of Pulmonary Medicine, UW-Madison have researched and taught cardiopulmonary physiology and pathophysiology, published 420 peer-reviewed manuscripts with >43,000 citations, received continuous NIH funding (1970-2020), established an NIH-sponsored specialized Center of Research into sleep apnea and supervised 68 pre-and post-doctoral fellows.

Noted discoveries in humans and animal models include elucidating the mechanisms underlying control of breathing, respiratory muscle work and fatigue, and cardiopulmonary interactions during sleep, exercise and hypoxia in health and cardio-respiratory diseases; respiratory limitations to exercise performance; and study of the pathogenesis, consequences and epidemiology of sleep disordered breathing, including being a founding member of the Wisconsin Sleep Cohort, the first cohort to report the prevalence of sleep-disordered breathing and the consequences of sleep apnea to hypertension and mortality. Jerry resides in Madison, Wisconsin, USA with his wife, Barbara Morgan, daughter Pamela, son Ben, and granddaughter Bridget.