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EDUCATION

B.S., East Stroudsburg State College

M.Ed., University of Nevada, Las Vegas

Ph.D., University of Arizona. Animal Physiology

PROFESSIONAL EXPERIENCE

August 1982 to 1986: Assistant Professor. San Diego State University.
Department of Exercise and Nutritional Sciences and the Department of Biology.

August 1986 to 1990: Associate Professor. San Diego State University.
Department of Exercise and Nutritional Sciences and the Department of Biology.

August 1990 to present: Professor. San Diego State University. Department of
Exercise and Nutritional Sciences and the Department of Biology.

Responsibilities include teaching various undergraduate and graduate human physiology, exercise physiology, and biochemistry of exercise courses. These included, DPT 750-Physiology, Pathophysiology and Pharmacology, Biol 336 - Human Physiology, Biol 590 – Physiology of Human Systems, Biol 560 – Animal Physiology, and ENS 304 – Exercise Physiology. Scheduling, ordering, and maintaining laboratory supplies and equipment. Individual and collective manuscript and grant preparation. Student advising and thesis direction.

August 1998 to 2002: Laboratory Director of the Kasch Exercise Physiology
Laboratory

Responsibilities included scheduling laboratory use, ordering supplies, maintaining the supplies and services budget, and repair of laboratory equipment. In addition, supervision of the laboratory graduate assistant was required.

August 1997 to 2003: Co-Scientific Director of the Rees-Steely Research Foundation Laboratory, San Diego, CA

Responsibilities include student thesis supervision and consultation.

Aug 1998 to 2002: Physiology Instructor for the Physician Assistant program at the Naval School of Health Science, Balboa Hospital, San Diego, CA

Responsibilities included course development and classroom instruction of the Human Physiology and Pathophysiology course which was part of the U.S. Navy Physician Assistant program.

PUBLICATIONS

ARTICLES (In Refereed Journals):

Buono, M. J., S. H. Constable, A. R. Morton, T. C. Rotkis, P. R. Stanforth, and J. H. Wilmore. "The Effect of an Acute Bout of Exercise on Selected Pulmonary Function Measurements." Medicine and Science in Sports and Exercise. 13, 290-293, 1981.

Buono, M. J. and F. B. Roby. "Acid-Base, Metabolic, and Ventilatory Responses to Repeated Bouts of Exercise." Journal of Applied Physiology. 53, 436-439, 1982.

Wilmore, J. H., S. H. Constable, P. R. Stanforth, M. J. Buono, W. Y. Tsao, F. B. Roby, B. J. Lowdon and R. A. Ratliff. "Mechanical and Physiological Calibration of Four Cycle Ergometers." Medicine and Science in Sports and Exercise. 14, 322-325, 1982.

Ewy, G. A., J. H. Wilmore, A. R. Morton, P. R. Stanforth, S. H. Constable, M. J. Buono, K. A. Conrad, H. Miller and C. F. Gatewood. "The Effect of Beta-Adrenergic Blockade on Obtaining a Trained Exercise State." Journal of Cardiac Rehabilitation. 3, 25-29, 1983.

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Roby, F. B., M. J. Buono, S. H. Constable, B. J. Lowdon, and W. Y. Tsao. "Physiological Characteristics of Champion Synchronized Swimmers." The Physician and Sportsmedicine. 11, 136-147, 1983.

Buono, M. J. "Effect of Central Vascular Engorgement and Immersion on Various Lung Volumes." Journal of Applied Physiology. 54, 1094-1096, 1983.

Constable, S. H., M. J. Buono, P. R. Stanforth, T. C. Rotkis, A. R. Morton, and J.H. Wilmore. "Maximal Exercise and Residual Lung Volume: Considerations for Body Composition Analysis." Canadian Journal of Applied Sport Science. 8, 189-192, 1983.

McKenzie, T. L., M. J. Buono, and J. Nelson. "Modifying CHD Risk Factors of Obese Boys through a Diet and Exercise Program." American Corrective Therapy Journal. 38, 35-37, 1984.

Buono, M. J., J. H. Wilmore, and F. B. Roby. "Indirect Assessment of Thoracic Fluid Balance Following Maximal Exercise in Man." Journal of Sports Sciences. 1, 217-226, 1984.

Buono, M. J., T. R. Clancy, and J. R. Cook. "Blood Lactate and Ammonium Ion Accumulation During Graded Exercise in Humans". Journal of Applied Physiology. 57, 135-139, 1984.

Hickson, J. F., J. H. Wilmore, M. J. Buono, and S. H. Constable. "Energy Cost of Weight Training Exercise." National Strength and Conditioning Association Journal. 6, 22-24, 1984.

Wilmore, J. H., A. E. Atwater, B. D. Maxwell, D. L. Wilmore, S. H. Constable, and M. J. Buono. "Alterations in Breast Morphology Consequent to a 21-day Bust Development Program." Medicine and Science in Sports and Exercise. 17, 106-112, 1985.

Wilmore, J. H., A. E. Atwater, B. D. Maxwell, D. L. Wilmore, S. H. Constable, and M. J. Buono. "Alterations in Body Size and Composition Consequent to Astro-Trimmer and Slim-Skins Training Programs." Research Quarterly. 56, 90-92, 1985.

Wilmore, J. H., F. B. Roby, P. R. Stanforth, M. J. Buono, S. H. Constable, Y. Tsao, and B. J. Lowdon. "Ratings of Perceived Exertion, Heart Rate, and Treadmill Speed in the Prediction of Maximal Oxygen Uptake During Submaximal Treadmill Exercise." Journal of Cardiopulmonary Rehabilitation. 5, 540-546, 1985.

Buono, M. J. and P. E. Faucher. "Intraerythrocyte and Plasma Osmolality During Graded Exercise in Humans." Journal of Applied Physiology. 58, 1069-1072, 1985.

Wilmore, J. H., F. B. Roby, P. R. Stanforth, M. J. Buono, S. H. Constable, Y. Tsao, and B. J. Lowdon. "Ratings of Perceived Exertion, Heart Rate, and Power Output in Predicting Maximal Oxygen Uptake During Submaximal Cycle Ergometry." The Physician and Sportsmedicine. 14, 133-143, 1986.

Buono, M. J. "Freezing Provides a Viable Method for the Prolonged, Stable Storage of Blood Lactate." Canadian Journal of Applied Sport Science. 11, 80-81, 1986.

Buono, M. J. and J. E. Yeager. "Intraerythrocyte and Plasma Lactate Concentrations during Exercise in Humans." European Journal of Applied Physiology. 55, 326-329, 1986.

Buono, M. J., J. E. Yeager, and J. A. Hodgdon. "Plasma Adrenocorticotropin and Cortisol Responses to Brief, High Intensity Exercise in Humans." Journal of Applied Physiology. 61, 1337-1339, 1986.

Buono, M. J., J. E. Yeager, and A. A. Sucec. "Effect of Aerobic Training on the Plasma ACTH Response to Exercise." Journal of Applied Physiology. 63, 2499-2501, 1987.

Sallis, J. F., T. L. Patterson, M. J. Buono, C. J. Atkins, and P. R. Nader. "Aggregation of Physical Activity Habits in Mexican-American and Anglo Families." Journal of Behavioral Medicine. 11, 31-41, 1988.

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Buono, M. J. and N. T. Sjolholm. "Effect of Physical Training on Peripheral Sweat Production." Journal of Applied Physiology. 65, 811-814, 1988.

Sallis, J. R., T. L. Patterson, T. L. McKenzie, M. J. Buono, C. J. Atkins, and P. R. Nader. "Stability of Systolic Blood Pressure Reactivity to Exercise in Young Children." Developmental and Behavioral Pediatrics. 10, 38-43, 1989.

Buono, M. J., J. J. Roby, F. G. Micale, and J. F. Sallis. "Predicting Maximal Oxygen Uptake in Children: Modification of the Astrand-Rhyming Test." Pediatric Exercise Science. 1, 278-283, 1989.

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Gillach, M. C., J. F. Sallis, M. J. Buono, P. Patterson, and P. R. Nader. "The Relationship Between Perceived Exertion and Heart Rate in Children and Adults." Pediatric Exercise Science. 4, 360-368, 1989.

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Buono, M. J. J. H. Heaney, C. Mackenzie, J. Cline, and S. Liechliter. "Total and Free Triiodothyronine Levels are not Altered by Seven Days of Active Heat Acclimation." Proceedings from the 8th International Conference on Environmental Ergonomics. Editors: J. Hodgdon, J. Heaney and M. Buono. pp. 51-54, 2000.

Buono, M. J. and A. Wall. "Effect of Hypohydration on Core Temperature during Exercise in Temperate and Hot Environments." European Journal of Physiology. 440, 476-480, 2000.

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DiPasquale, D., F. Kolkhorst, J. Nichols, and M. J. Buono. "Effect of Acute Normobaric Hypoxia on Peripheral Sweat Rate." High Altitude Medicine and Biology. 3: 289-293, 2002.

Austin, K., J. Hansbrough, C. Dore, J. Noordenbos, and M. J. Buono. "Thermoregulation in Burn Patients during Exercise." Journal of Burn Care and Rehabilitation. 24: 9-14, 2003

DiPasquale, D.M., M.J. Buono, and F.W. Kolkhorst. Effect of skin temperature on cholinergic sensitivity to the human eccrine sweat gland. Japanese Journal of Physiology. 53: 427-430, 2003.

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Buono, M. J., S. Burke, S. Endemann, H. Graham, C. Gressard, and L. Griswold. "The Effect of Ambient Air Temperature on Whole-Body Bioelectrical Impedance." Physiological Measurement. 25: 119-123, 2004

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