

John Kozey

Biography

Dr. John Kozey is an Assistant Professor in the Department of Kinesiology at Dalhousie with cross appointments in the Biomedical and Industrial Engineering departments. John holds degrees in kinesiology and a doctorate in industrial engineering. He has been a faculty member at Dalhousie since 1993. His research and application interests are related to the development and evaluation of practical tools for use in the study of work processes, workspace and workstation designs and evaluation. Recent research activities have been directed toward the improvement of safety requirements in helicopter and marine transport. In particular the work has been used in the changes to IMO lifeboat standard and CGSB standards for lifeboats, immersion suits and lifejackets.

Presentation Abstract: Applications of human anthropometry to workspace design, marine and offshore safety and productivity

It is vitally important that systems, workspaces and personal protective equipment are designed to enhance the productivity and safety of the worker. In order to achieve these goals the true size, shape and physical characteristics of the target population must be known. In the past, many work systems, pieces of equipment and safety related standards have been developed with the “best” guess of the human size which has resulted in incompatible solutions related to the human.

This presentation will highlight the past projects involving the measurement and application of human anthropometry in Nova Scotia’s offshore community and the future directions of the Occupational Ergonomics and Biomechanics lab at Dalhousie. In particular, the recent grant from Encana has allowed for the acquisition of a full body 3-D laser scanner which will improve the data acquisition and application process of this information. Lastly, the presentation will touch on the future technologies that will assist in creating a highly productive and safe work environment for the marine and offshore industries.