UNDERSTANDING CAUSAL PATHWAYS FOR SPINE DISORDERS

Featuring Dr. William Marras
Ohio State University

October 26, 2018 | 12:00 - 1:15 pm | H&K112
Parking Available in Lot T

ABOUT DR. MARRAS

• William S. Marras holds the Honda Chair in the Department of Integrated Systems Engineering at the Ohio State University and serves as the Director of the Spine Research Institute at the Ohio State University. His research is centered on understanding multidimensional causal pathways for spine disorders through quantitative epidemiologic evaluations, laboratory biomechanical studies, personalized mathematical modeling, and clinical studies of the lumbar and cervical spine. His findings have been published in over 250 peer-reviewed journal articles, hundreds of refereed proceedings, and numerous books and book chapters. Dr. Marras is an elected member of the National Academy of Engineering (the National Academy of Science, Engineering and Medicine), recorded a TEDx talk entitled “Back Pain and your Brain” and was featured on NPR’s All Things Considered.

LEARNING OBJECTIVES

This presentation will describe ongoing efforts to understand causal pathways for spine disorders of the lumbar and cervical spine occurring at the Spine Research Institute at the Ohio State University. Our research involves a a systematic approach involving a three phase process that includes: surveillance/monitoring, laboratory testing, and personalized modeling. This information is used for both prevention and treatment of spine disorders. These various phases and applications of this system will be described in this presentation.

The presenter William Marras, PhD has disclosed his financial interest with SpineDynX and Biodynamics Solutions. Members of the planning committee, Nick Stergiou, Ph.D., Jeffrey Kaipust, M.S., Angela Collins, M.A., Laura Campbell, B.S., and Jackie Farley, CPP have no financial conflict of interest to disclose.

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