



University of New
Hampshire
Master of Public Health



New Hampshire
Public Health Association

Dartmouth
TOXIC METALS
Research Program

PUBLIC HEALTH



Grand Rounds Series 2006-2007

Uncovering the Impact of Arsenic on the Health of NH

VIDEOCONFERENCE LECTURE

Thursday March 29th, 2:30-4:30 PM

Available videoconference sites: Durham, Newport,
North Haverhill, Brentwood, Boscawen, Gorham, Bedford, Lebanon,
Newington

Joseph H. Graziano, PhD

Professor of Environmental Health Sciences & Pharmacology
Associate Dean for Research
The Mailman School of Public Health at Columbia University

Margaret R. Karagas, PhD

Professor and Head of Biostatistics and Epidemiology
Dartmouth Medical School, Center for Environmental Health Sciences at
Dartmouth and the Norris Cotton Cancer Center

Lecture Objectives:

1. Provide a basic understanding of the health consequences of exposure to arsenic and why arsenic is a relevant health concern for NH
2. Explain a research project currently taking place in NH to examine the effects of well-water arsenic exposure to children's IQ
3. Describe a study to investigate the association between arsenic exposure and the higher incidence of bladder cancer in Northern New England.

To Register for this FREE Lecture: E-mail or call Chris Hamann before March 26th (chris.hamann@unh.edu or 862-2733) to let her know the videoconference site where you will attend AND your email address. You will receive an email a few days before the lecture with name of and directions to your specific videoconference site. If no one is registered to attend a given videoconference site by March 26th, this videoconference site will NOT be offered on March 29th.

About Joseph H. Graziano, PhD

Dr. Graziano has been a faculty member at the College of Physicians & Surgeons of Columbia University since 1979, and was Chairman of the Department of Environmental Health Sciences at the Mailman School of Public Health from 1991-2002, when he became Associate Dean. Prior to that, he served on the faculties of The Rockefeller University and Cornell University Medical College. He was the founding director of Columbia University's NIEHS Center for Environmental Health in Northern Manhattan. He is widely known as an expert on childhood lead poisoning, and his laboratory developed the drug (Succimer) that is now widely used to treat this condition. In addition, from 1983-1998, he was the principal investigator of a 15-year NIEHS-funded prospective study of childhood lead poisoning, carried out in the mining town of Kosovska Mitrovica, in the former Yugoslavia (now Serbia). In 2000, Dr. Graziano became the founding director of the Columbia University Superfund Basic Research Program (SBRP), entitled "Health Effects and Geochemistry of Arsenic and Lead." The Columbia SBRP involves faculty from four schools of Columbia University, and includes geochemistry, hydrology and remediation research at four U.S. Superfund sites, as well as studies of arsenic metabolism and toxicity in families exposed to naturally occurring high concentrations of arsenic in drinking water in Bangladesh. His most recent research has discovered that both arsenic and manganese exposures are associated with cognitive deficits in children.

About Margaret Karagas, PhD

Dr. Margaret Karagas' research includes several epidemiological studies focusing on the etiologic mechanisms and prevention of human cancers and other adverse health outcomes. Particular areas of expertise include non-melanoma and melanoma skin cancers, bladder cancer and large bowel neoplasms. For the past ten years Dr. Karagas has received support from the National Institute of Environmental Health Science's Superfund Basic Research Program to study the effects of arsenic on human health. In collaboration with researchers at Dartmouth's Center for Environmental Health Services, she is examining the effects of exposure to arsenic and other toxic metals in drinking water, exogenous and endogenous female sex steroids and the sources of ionizing and non-ionizing radiation. She is also involved in a regional study to understand the excess mortality rates in bladder cancer in Maine, New Hampshire and Vermont. Her work is interdisciplinary, and her studies consider exposure, biologic markers, genetic susceptibility, tumor characteristics, intermediary endpoints and novel statistical approaches. Dr. Karagas has been a faculty member of the Department of Community and Family Medicine at Dartmouth Medical School since 1990. She is currently a Co-Director for the Epidemiology and Chemoprevention Program at the Norris Cotton Cancer Center at Dartmouth-Hitchcock Medical Center, Associate Director for Dartmouth College's Center for Environmental Health Sciences and serves as Section Head for the Biostatistics and Epidemiology Section at Dartmouth Medical School.