

SCOPE AND PURPOSE:

The scope of this short course is to share the most recent information on the relationship between toxic metal ions, trace elements, and their impact on environmental and public health issues. The scientific topics will include environmental toxicology, environmental pathology, geochemistry, extent, patterns and consequences of exposures to toxic metal ions in the general environment, and modern trends on environmental pathology and medical geology from exposures to toxic metals.

OBJECTIVES:

At the completion of this short course, the attendees will be able to:

- Know and gain information on the type of evidence available about environmental sources and processes, environmental health, toxicology, and pathological manifestations of exposures of toxic metal species.
- Know and gain information about geochemical processes, natural and anthropogenic sources, speciation; to assess the impact of trace elements and toxic metal ion species on human and environmental health.
- Have an elementary understanding of environmental pathology, toxicology, and medical geology as applied to the study of toxic metal species and trace elements.

SPEAKERS:

Dr. José A. Centeno, U.S. Armed Forces Institute of Pathology, Washington, DC

Dr. Olle Selinus, Geological Survey of Sweden

Dr. Florabel G. Mullick, U.S. Armed Forces Institute of Pathology, Washington, DC

Dr. Renata B. Greenspan, U.S. Armed Forces Institute of Pathology, Washington, D.C.

Dr. Bruce Fowler, University of Maryland, Baltimore, MD and Agency for Toxic Substances and Disease Registry

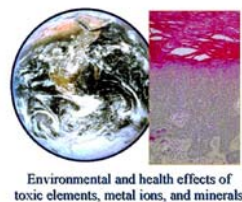
Dr. Geoffrey Plumlee, U.S. Geological Survey, Denver, Colorado

Dr. David Slaney, University of Otago and Wellington School of Medicine, Wellington, New Zealand

Dr. Daniel Perl, Mount Sinai School of Medicine, New York

Dr. Gerald F. Combs, Grand Forks Human Nutrition Research Center, North Dakota

5th ISMIBM Website: <http://www.selenium.hu>



SHORT COURSE -TOPICS ON MEDICAL GEOLOGY- METALS, HEALTH AND THE ENVIRONMENT May 18, 2004 Hungarian Academy of Sciences Budapest, Hungary

Jointly Sponsored by:

Hungarian Academy of Sciences
Bethesda Children's Hospital, Budapest
KFKI Atomic Energy Research Institute, Budapest
U.S. Armed Forces Institute of Pathology (AFIP)
U.S. Geological Survey (USGS)
Geological Survey of Sweden (SGU)
International Union of Geological Sciences (IUGS)
Commission on Geological Sciences and Environmental Planning
(COGEOENVIRONMENT)
International Association for Medical Geology (IAMG)
United Nations Educational, Scientific, and Cultural Organization
(UNESCO)
International Geological Correlation Programme IGCP#454
International Council of Scientific Unions (ICSU)
<http://www.medicalgeology.org>



Tuesday, May 18, 2004

8:00-8:30	GENERAL REGISTRATION
8:30-9:00	OPENING REMARKS AND WELCOME Renata B. Greenspan, MD, AFIP, Washington, DC
9:00-9:30	Objectives, Short Course Description, and Introduction to Medical Geology <i>Jose A. Centeno, PhD</i>
9:30 - 10:15	Medical Geology: An emerging discipline in environmental and human health. <i>Olle Selinus, PhD</i>
10:15 - 10:30	Break
A.	Environmental Health: Sources of Exposure and Nutritional Implications
10:30 - 11:15	Natural and Anthropogenic Sources of Trace Metals: Sources, Transport and Fate <i>Geoffrey Plumlee, PhD</i>
11:15 - 12:00	Nutritional Implications of Trace Elements <i>Gerald F. Combs, PhD</i>
12:00 - 13:00	Lunch Break
B.	Toxicology, Biomarkers of Effects and Disease
13:00 - 13:45	Environmental Pathology and Exposure to Toxic Metals: An Overview of Selected Lesions <i>Florabel G. Mullick, MD, AFIP</i>
13:45 - 14:30	Clinical and Toxicological Aspects of Exposures to Metals: The Case of Mercury and Depleted Uranium <i>Jose A. Centeno</i>
14:30 - 15:15	Cadmium, Zinc, Selenium and Prostate Cancer: A New Zealand Perspective <i>David Slaney, PhD</i>
15:15 - 15:30	Break
15:30 - 16:15	Roles of Biomarkers in Understanding Toxic Elemental Interactions - <i>Bruce Fowler, PhD</i>
16:15 - 17:15	Bacterial-Metal Interactions: A Novel Etiologic Hypothesis of Crohn's Disease and Related Disorders <i>Daniel Perl, MD</i>
17:15 - 17:45	Questions and Discussion with All Speakers Moderator: Renata B. Greenspan, MD

REGISTRATION FORM

Please contact Dr. Maria Agnes Cser or Dr. Ibolya Sziklai-Laszlo for additional information concerning registration for this short course.

Please complete the attached form and email it to:

Dr. Jose A. Centeno : centeno@afip.osd.mil

Dr. Ibolya Sziklai Laszlo: isziklai@sunserv.kfki.hu

Dr. Maria Agnes Cser: csera@bethesda.hu

Registration:

Surname

First Name

Title

Organization

Mailing Address

Postal Code

Country

Telephone

Fax

E-mail

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