

COURSE INSTRUCTORS

Hillary Carpenter, Ph.D.

Dr. Carpenter is a Toxicologist at the Minnesota Department of Health, in St. Paul, Minnesota. His primary responsibilities include the conducting of human health and ecological risk assessments. In addition he is involved with the development of health-based toxicity values for environmental contaminants such as industrial chemicals, pesticides and metals, and also provides toxicological support for the Minnesota Fish Consumption Advisory Program.

Robert Roy, Ph.D., DABT

Dr. Roy is a Senior Toxicology Specialist at the 3M Company. His primary responsibilities include the assessment of human health hazards and risks of products and other materials for several 3M consumer and industrial business units. In addition he holds leadership roles in the development of 3M Occupational Exposure Guidelines and 3M REACH compliance activities. He is board-certified in general toxicology.

OTHER SCHC COURSES

- Advanced Topics in EHS: Alternatives in Animal Testing
- Advanced Topics in EHS: Clinical Toxicology
- Advanced Topics in EHS: Endocrine Disruptors
- Advanced Topics in EHS: Genotoxicity, Mutagenicity, and Carcinogenicity
- Advanced Topics in EHS: Immunotoxicology (Sensitization)
- Advanced Topics in EHS: Lifecycle Assessment
- Advanced Topics in EHS: Neurotoxicology
- Advanced Topics in EHS: Occupational Exposure Limits
- Advanced Topics in EHS: Personal Protective Equipment Selection and Engineering Controls
- Advanced Topics in EHS: Reproductive and Developmental Toxicology
- Advanced Topics in EHS: Respiratory Toxicology
- Advanced Topics in EHS: Role of Human Data in Hazard Communication
- Advanced Topics in EHS: Toxicology of the Liver and Kidney
- California Proposition 65 Labeling Workshop
- Canadian and Mexican Hazard Communication
- Ecotoxicology for Hazard Communication
- Environmental Health & Safety Regulatory Overview
- Globally Harmonized System for Classification & Labeling of Chemicals
- HazCom 101
- Hazard Communication for Asia, the Pacific Rim and Latin America
- Hazard Communication for the European Union
- Hazard Determination and Risk Assessment
- Health Hazard Determination and Risk Assessment
- Industrial Hygiene and Safety for Hazard Communication
- Introduction to Chemical Hazard Communication
- International Chemical Control Laws
- Labeling for Consumer Products
- Label Preparation Workshop
- Labeling for Pesticide and Consumer Products
- MSDS Preparation Workshop
- Optimizing the Communication of Hazards
- Other Industrial Labeling Systems
- REACH - A New Approach to Chemicals in Europe
- Regulatory Requirements for Component Disclosure
- Science for Hazard Communicators
- Toxicology for Hazard Communication
- Transportation Classification and Labeling



**Society for
Chemical Hazard
Communication**

ADVANCED TOPICS IN EHS: TOXICOLOGY OF NANOMATERIAL

**Sunday
October 3, 2010**

**Marriott Crystal Gateway Hotel
Arlington, Virginia**

Course Director:

Robert Skoglund, Ph.D., DABT, CIH

Course Instructors:

**Hillary Carpenter, Ph.D.
Robert Roy, Ph.D., DABT**

COURSE DESCRIPTION

This course is designed to be an overview of the unique health hazards and risks associated with nanometer-sized materials (nanomaterials). This course will assume that participants have a basic understanding of the concepts and terminology of toxicology and will focus on the unique aspects of nanomaterials. Specifically, their physical-chemical characteristics, potential to cause adverse health effects, toxicokinetics, and exposure pathways. In addition, there will be a discussion of the unique hazard communication and regulatory considerations for these materials. The skills developed in the course will allow participants to better participate in the assessment, management, and communication of the hazards and risks of nanomaterials.

This is an advanced course. While there are no formal prerequisites for this course, it is recommended that participants have a working knowledge of the principles of hazard communication, toxicology and risk assessment. Participants should have taken the SCHC courses *Toxicology for Hazard Communication*, *Hazard Determination and Risk Assessment*, and *Industrial Hygiene and Safety for Hazard Communication* or be comfortable with the principles presented in these courses. This course is designed to be an overview of the toxicology tests most commonly used to determine the hazard of a material.

INTENDED AUDIENCE

Hazard communication professionals looking to expand their understanding of specific topics in toxicology and/or sharpening their hazard determination and risk assessment skills.

COURSE TOPICS AND SCHEDULE*

Sunday, October 3, 2010

12:30 - 1:00 Registration

1:00 - 2:10 Introduction
Understanding Nanoparticles

2:10 - 2:25 Break

2:25 - 3:35 Unique Toxicology of
Nanoparticles
Unique Exposure to
Nanoparticles

3:35 - 3:50 Break

4:50 - 5:00 Hazard and Risk Assessment
Hazard Communication

**Topics and schedule are subject to change*

Course Fee: \$250.00 Members
\$340.00 Non-Members

REGISTRATION

Admission to the course will be on a first come basis. Reserve space and obtain a registration number from the SCHC office by contacting Lori Chaplin at schc.lori@verizon.net or 703/658-9246. To avoid disappointment, do not send payment until a confirmation number has been obtained. Course fee is \$250.00 for SCHC Members and \$340.00 for nonmembers, and includes notebooks. Payment must be received by September 3, 2010 to secure your space. Space is limited.

CANCELLATION POLICY

No refunds will be given after September 3, 2010. No one will be admitted to the course unless all fees have been paid in advance. Substitutions are permitted.

Every effort has been made to ensure the information in this brochure is accurate. SCHC reserves the right to modify this course without prior notice or to cancel the course 30 days prior to the course date. In the event this course is canceled, SCHC's obligation is limited to a full refund of the course fee.

HOTEL ACCOMMODATIONS

Arrangements have been made for a block of rooms at the Crystal Gateway Marriott Hotel, 1700 Jefferson Davis Highway, Arlington, Virginia 22202 (703/920-3230). The rate is \$212/night single or double occupancy through September 3, 2010. You must identify yourself with SCHC when making reservations.