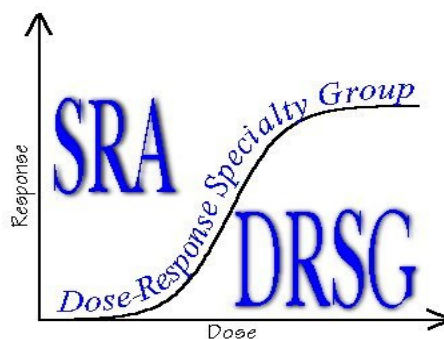


# Dose Response Specialty Group of the Society for Risk Analysis

<http://www.sra.org/drsg/>

- DRSG founded in 1994 as a specialty group of the SRA
- Open to all interested in biological and mathematical relationships between exposure and effect
- Focused on issues relating to the shapes and positions of dose-response curves and their underlying biological meaning; population distributions that describe interindividual variability in susceptibility and ranges of response; probabilistic approaches for projecting responses in unknown populations to assist in regulatory benefits analyses; and integrated use of mechanistic, animal, and epidemiologic data to aid in estimation of risks at low doses
- Interests include chemical, physical, and microbial hazards that affect human populations and environmental species
- Multidisciplinary expertise spans the fields of toxicology, medical microbiology, and environmental sciences



## 2007 EXECUTIVE COMMITTEE

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(Clark University)



Vice-Chair  
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Trustee-at-Large  
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(USGS, Sacramento)



Trustee-at-Large  
Gary L. Foureman  
(U.S. EPA/NCEA, RTP)



## JOIN THE OPEN DRSG MONTHLY TELECONFERENCES

- Open teleconferences first Tuesday of every month (noon -1 p.m. Eastern Time) to discuss and plan symposia, proposed workshops, open forums, and other DRSG-sponsored activities on dose response issues
- New members and guests welcome
- Three annual teleseminars with a presentation and discussion

### September 5, 2006 Intraspecies Variability

*Intraspecies variability in toxicant effects: Nuisance, nemesis or sustenance for risk assessment?*

Robert MacPhail, National Health and Environmental Effects Laboratory, U.S. EPA, Research Triangle Park, NC

### June 6, 2006 Nanotechnology

*Inhalation toxicity of single wall carbon nanotubes.*

Robert Mercer, National Institute of Occupational Safety and Health, Morgantown, WV

*Unique properties of nanomaterials that raise concerns for toxicology research*

Jo Anne Shatkin, Cadmus Group, Watertown, MA

### March 2, 2006 Human Relevance of Animal Tumors

*Mode of action in assessing the human relevance of animal tumors: an EPA perspective*

Vicki Dellarco and Anna Lowit, Office of Pesticide Programs, U.S. EPA, Washington, DC

Call (513)569-7897 on first Tuesdays of each month (except December) at noon – 1 pm EST; access code 2790# when prompted

## DOSE RESPONSE ASSESSMENT

Definition: Process of characterizing quantitative relationships between the expected or observed incidence or degree of responses with exposure levels of chemical, physical, and biological hazards in animals, people, and the environment

## ISSUES OF INTEREST

- Measuring and modeling variability in dose-response relationships
  - Normal and susceptible animals and humans
  - Host, agent, and environmental variability for dose-response
- Low-dose extrapolations
- Incorporating information on modes of action and repair/protection into dose-response assessments
- Selection of surrogate agents in absence of quantitative data for agents of concern
- Tissue dosimetry
- Harmonization of cancer vs non-cancer endpoints for chemicals, chronic and acute adverse effects for microbial pathogens

**JOIN THE GROUP:** Our website (<http://www.sra.org/drsg/>) includes minutes of meetings and teleconference discussions, notices of current events, and miscellaneous information. See "Membership/How to Join" for more information on becoming a member.

**JOIN THE E\_LIST ON YahooGroups.com:** Go to <http://groups.yahoo.com/group/DRSG/> and hit the "Join this Group!" button.

## JOIN IN WORKSHOPS, SYMPOSIA, BUSINESS MEETING,

**AND MIXER:** Annual DRSG business meeting is held on Tuesday noon during the national meeting. DRSG sponsors symposia and workshops at the national meetings, as well as a mixer, often in alliance with other SRA specialty groups

## DRSG STUDENT AWARD PROGRAM

The DRSG student merit award program recognizes excellence in academic research related to dose-response assessment for chemical, physical, and microbial hazards. Winners of the 2006 DRSG Student Awards are:

2006  
First Place Award  
Rebecca Clewell  
University of North Carolina



Dose response modeling with monoalkylphthalates: Assessing cellular targets for mechanism-based risk assessments

2006  
Runner-up Award  
Joshua Harrill  
University of North Carolina



Use of genomic technologies and isotonic dose-response modeling in the development of a biochemical marker of effect for pyrethroid insecticides

**Society for Risk Analysis:** a multidisciplinary, interdisciplinary, scholarly, international society that provides an open forum for all those who are interested in risk analysis.

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