

**The 35th Annual Summer Meeting of  
The Toxicology Forum  
July 12-16, 2009  
The Given Institute**

**Agenda**

**Sunday, July 12**

6:00 p.m. *Welcome Reception*

**Monday July 13, 2009**

7:30 *Breakfast*

8:50 **Opening Remarks**  
David Longfellow, President  
The Toxicology Forum

9:00 **Keynote Address - New Visions for NIEHS/NTP**  
Linda Birnbaum, NIEHS/NTP, NC

9:45 *Break*

**SESSION I**

**The Safety of an Omega-3 Fatty Acid Intermediate (SDA) Derived from Genetically Modified Soy Beans**  
Chair: David Miller, Carleton University, Canada

10:15 **Introduction**  
Chair

10:20 **SDA Enhanced Soybeans: Land-Based Source of Dietary Omega-3 Fatty Acids**  
Roy Fuchs, Monsanto, MO

10:40 Discussion

10:50 **Nutritional Importance of SDA Enriched Soybean Oils**  
William Harris, University of South Dakota- Sanford School of Medicine

11:10 Discussion

11:20 **Importance of Omega-3 Fatty Acids for Human Health and the Potential Role of SDA-Enriched Soybean Oil**  
Dariush Mozaffarian, Harvard School of Medicine, MA

11:40 Discussion

11:50 **Panel Discussion**  
All Speakers  
Mary Ditto, FDA, MD

**Update: Vitamin D - Recommended Daily Allowance for Health and Disease Prevention**  
12:15 Dan Fabricant, Natural Products Association, DC

12:35 *Lunch*

**SESSION II**

**Quantitative Risk Assessment for Dermal Sensitization: What's an Acceptable Exposure**

Chair: Anne Marie Api, RIFM, NJ

1:35 **Introduction**  
Chair

1:40 **Dermal Sensitization Risk Assessment – Scientific Principles**  
Carsten Goebel, Procter & Gamble, OH

2:00 Discussion

2:10 **Dermal Sensitization Quantitative Risk Assessment for Fragrance Ingredients**  
Anne Marie Api, RIFM, NJ

2:30 Discussion

2:40 *Break*

3:10 **Dermal Sensitization Quantitative Risk Assessment - A Dermatologist's Perspective**  
Donald Belsito, University of Kansas Medical Center

3:30 Discussion

3:40 **A US Consumer Products Regulatory Perspective**  
Joanna Matheson, Consumer Products Safety Commission, MD

4:00 Discussion

4:10 **U.S. EPA/OPP Perspective on Assessment of Dermal Sensitization Risk for Wood Preservative Antimicrobials**  
Jonathan Chen, EPA, DC

4:30 Discussion

4:40 **Panel Discussion**  
All Speakers  
Alan Andersen, Cosmetic Ingredient Review, DC  
Greg Adamson, Givaudan, NJ

**UPDATE: USP Food Chemical Codex - New Directions**  
5:10 James Griffiths, USP, MD

**UPDATE: The Peanut Butter Salmonella Outbreak - An FDA Perspective**  
5:30 Marleen Wekell, FDA, MD

5:50 **Annual Meeting of Members**

6:30 *Reception – All Welcome*  
*Aspen Square Condominium Hotel*

**Tuesday July 14, 2009**

7:30 *Breakfast*

**Update: Hemangeosarcomas in Rodents - Relevance to Humans?**  
8:40 James Klaunig, Indiana University School of Medicine

**SESSION III**

**Drug-Induced Chronic Heart Failure: Can it be Predicted from Non-Clinical Safety Assessment Studies?**

Chair: William Kluwe, Novartis, NJ

9:00 **Introduction**  
Chair

9:05 **Preclinical Assessment of CV Risk for Diabetes Medications – Normal or Compromised Models?**  
Nick Edmunds, Pfizer, CT

9:25 Discussion

9:35 **Cardiac Toxicity Beyond Arrhythmias**  
Peter Hoffmann, Novartis, NJ

9:55 Discussion

10:05 **Transitioning Cardiac Assessment into Early Clinical Studies: A Role for Imaging**  
Pamela Douglas, Duke University, NC

10:25 Discussion

10:35 *Break*

11:05 **A Regulator's view**  
John Koerner, FDA, MD

11:25 Discussion

11:35 **Panel Discussion**  
All Speakers

12:05 *Lunch*

1:05 **George H. Scott Award Presentation**  
James Klaunig, Indiana University School of Medicine

#### **SESSION IV**

**Fishbowl: Can Carcinogenicity Be Predicted by 6 or 12 Month in vivo Toxicology Data?- Results from Analysis of a New Pharmaceutical Database**

Chair: Frank Sistare, Merck & Co., PA

1:35 **A New Pharmaceutical Database**  
Chair

2:05 **Fishbowl**  
Moderator: Lewis Smith, Syngenta, UK  
Participants:  
Samuel Cohen, University of Nebraska  
David Jacobson-Kram, FDA, MD  
James Klaunig, Indiana University School of Medicine  
David Miller, Carleton University, Ontario  
James Swenberg, University of North Carolina

3:50 Discussion

3:20 *Break*

**Extended Update: Do Pesticides Contribute to Parkinson's Disease?- A Contemporary Dilemma**

3:50 Pierluigi Nicotera, Ludwig-Maximilians University, German Center for Neurodegenerative Disease Research (DZNE), Germany

**Update: Internal Dosimetry Model for Safe Levels of Acrylamide in Humans**

4:30 Robert Tardiff, The Sapphire Group, MD

**Update: Acrylamide - An FDA Update**

4:50 Henry Kim, FDA, MD

5:10 *Session Ends*

6:30 **Comments by “Friends” of the George Scott Honoree**  
(Auditorium)

7:00 *Great South Western Fiesta*

**Wednesday July 15, 2009**

7:30 *Breakfast*

**UPDATE: Weight of Evidence (WOE) Approach for Safe Levels of Perfluorooctanoic Acid (PFOA) Risk in Drinking Water**

8:40 Robert Tardiff, The Sapphire Group, MD

**SESSION V: EPA's IRIS Program - Re-evaluation of Ethylene Oxide**

Chair: Julian Preston, EPA, NC

9:00 **Introduction**  
Chair

9:05 **EO Genotoxicity Profile and its Implications for Risk Assessment**  
Richard Albertini, Consultant, VT

9:25 Discussion

9:35 **SAB Perspectives on EO IRIS Assessment**  
James Swenberg, University of North Carolina

9:55 Discussion

10:05 **UPDATE: Results of the Union Carbide Cohort Mortality Study**  
Gerard Swaen, The Dow Chemical Company, Netherlands

10:25 *Break*

11:00 **The Impact and Importance of Additional Epidemiology on EO Hazard Characterization**  
Dr. Elizabeth Delzell, The University of Alabama

11:20 Discussion

11:30 **Use of Pooled Epidemiology Data in Quantitative Risk Assessment**  
Robert Sielken, Sielken Associates, TX

11:50 Discussion

12:00 **Panel Discussion**  
All Speakers  
Jane Teta, Exponent Health Sciences, CT

12:30 *Afternoon Free*

**Thursday July 16, 2009**

7:30 *Breakfast*

**SESSION VI: The Linear No-Threshold Hypothesis - Recent Perspectives from Radiation and Chemical Toxicology**

Chair: Jim Bus, Dow Chemical, MI

8:30 **Overview of the Issue**

Chair

8:45 **Biological Responses to Low Dose Radiation. Implications for Radiation Protection**

Ron Mitchel, Atomic Energy of Canada, Ltd., Ottawa, Canada

9:05 Discussion

9:15 **A Meta-analysis Evaluation of Low-dose Animal Radiation Experiments: Empirical Evaluation of Hormesis**

Dan Krewski, University of Ottawa, Canada

9:35 Discussion

9:45 **Evidence of Low Dose Non-Linearity and Biological Thresholds for Multiple Endpoints in Rats Administered Alkylating Agents**

Matthew LeBaron, Dow Chemical, MI

10:05 Discussion

10:15 *Break*

10:45 **Is the Linear Default Used in Cancer Risk-Assessment Based on Science?**

James Swenberg, University of North Carolina

11:05 Discussion

11:15 **Panel Discussion**

All Speakers

David Jacobson-Kram, FDA, MD

12:00 *Lunch*

**SESSION VII: Manufactured Nanoscale Materials - Carbon Nanotube Toxicity**

Chair: Norris Alderson, NCTR, AK

1:00 **Introduction**

Chair

1:05 **Genomic and Proteomic Assessment of the Pulmonary Response to Asbestos and Single Walled Carbon Nanotubes in Mice**

Justin Teeguarden, Pacific Northwest National Laboratory, WA

1:25 Discussion

1:35 **NIOSH Nanotoxicology Research: Biological Activity of Single-Walled Carbon Nanotubes**

Vincent Castranova, CDC NIOSH, GA

1:55 Discussion

2:05 *Break*

- 2:35 **Ecotoxicity of Carbon Nanotubes: Tying Particle Characteristics to Biological Interactions**  
Stephen Klaine, Clemson University, SC
- 2:55 Discussion
- 3:05 **Panel Discussion**  
All Speakers
- 3:45 *Meeting Adjourned*