

North American Congress of Clinical Toxicology

Organized By: American Academy of Clinical Toxicology

WASHINGTON, DC • SEPTEMBER 21-26, 2011

Sponsored By:

- American Academy of Clinical Toxicology
- American Association of Poison Control Centers

Annual Meeting of:

- American Academy of Clinical Toxicology
- American Association of Poison Control Centers
- American College of Medical Toxicology
- Canadian Association of Poison Control Centres
- European Association of Poisons Centres and Clinical Toxicologists



NACCT



North American Congress of Clinical Toxicology

Meeting Announcement

The American Academy of Clinical Toxicology and the American Association of Poison Control Centers are pleased to announce that the **North American Congress of Clinical Toxicology 2011** and associated pre-meeting functions will be held at the **Omni Shoreham Hotel, Washington DC, September 21-26, 2011**.

This annual conference allows an opportunity for physicians, nurses, pharmacists, and scientists from around the world to participate in the sharing of knowledge on a wide variety of issues in clinical toxicology. In addition, there will be multiple original research papers presented, a number of symposia, as well as other traditional and novel continuing education sessions.

General Objectives:

- Identify the acute and/or chronic toxic effects of various drugs, chemicals and biologicals.
- Utilize research data to determine new approaches to the prevention, assessment, and treatment of poisoning victims.
- Compare and contrast approaches to the treatment of poisoned patients.
- Identify the principles of assessing the severity and predicting the outcome of poisonings.
- Define innovations in the responsibilities and functions of poison centers.
- Identify the principles involved in the laboratory evaluation of poisonings.
- Identify the risks and treatment of occupational and environmental hazards to humans.

The Online Library

The Online Library is a convenient, easy-to-access format that is available from anywhere on a 24/7 basis.

The Library Features:

- Search by conference name, presentation subject or speaker.
- Download the presentation audio to your mobile media player.
- Take notes during the presentations and store them for later reference.
- Plus much more....

Conference Registrants

As a conference registrant, you have complimentary access to the recorded presentations from the conference sessions for which you registered.

Approximately 3 weeks after the conference, you will receive an email notifying you that the actual audio presentation recorded at the live conference and PowerPoint slides are available for access in the Online Library.

NACCT Opening Day

Friday, September 23
Keynote Presentation



**Toxicology and the Regulator:
Local, State and Federal Perspectives**
Speaker: Dr. Joshua M. Sharfstein, M.D.

Dr. Joshua M. Sharfstein was appointed by Governor Martin O'Malley as Secretary of the Maryland Department of Health and Mental Hygiene in January 2011.

In March 2009, President Obama appointed Dr. Sharfstein to serve as the Principal Deputy Commissioner of the U.S. Food and Drug Administration, the agency's second highest-ranking position. He served as the Acting Commissioner from March 2009 through May 2009 and as Principal Deputy Commissioner through January 2011.

From December 2005 through March 2009, Dr. Sharfstein served as the Commissioner of Health for the City of Baltimore, Maryland. In this position, he led efforts to expand literacy efforts in pediatric primary care, facilitate the transition to Medicare Part D for disabled adults, engage college students in public health activities, increase influenza vaccination of healthcare workers, and expand access to effective treatment for opioid addiction. Under his leadership, the Baltimore Health Department and its affiliated agencies have won multiple national awards for innovative programs, and in 2008, Dr. Sharfstein was named Public Official of the Year by Governing Magazine.

From July 2001 to December 2005, Dr. Sharfstein served as minority professional staff of the Government Reform Committee of the U.S. House of Representatives for Congressman Henry A. Waxman. Dr. Sharfstein is a 1991 graduate of Harvard College, a 1996 graduate of Harvard Medical School, a 1999 graduate of the combined residency program in pediatrics at Boston Children's Hospital and Boston Medical Center, and a 2001 graduate of the fellowship in general pediatrics at the Boston University School of Medicine.

Corporate Sponsors

A special thank you to the following companies:

McNeil Specialty Consumer Pharmaceuticals

BTG International, Inc.

Cumberland Pharmaceuticals

The 2011 Congress

The 2011 Congress will offer multiple clinical toxicology symposia, presentation of original research as posters and platforms, and scheduled interest and committee group meetings. Selected topics include:

- Receptor physiology and analytical aspects of synthetic cannabinoids and other synthetic congeners
- Teenage substance abuse
- Management of hazardous material (HazMat) disasters
- Acute liver failure and transplantation in the poisoned patient
- Complementary and alternative medicine related poisonings
- Evidence-based clinical toxicology practices
- Radiation toxicity
- Animals as sentinels of human exposures

Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the American Academy of Clinical Toxicology, and the American Association of Poison Control Centers. Participating organizations include the American College of Medical Toxicology, Canadian Association of Poison Control Centres, and European Association of Poisons Centres and Clinical Toxicologists. The American Academy of Clinical Toxicology is accredited by the ACCME to provide continuing medical education for physicians.



American Academy of Clinical Toxicology Inc., is accredited by the **Accreditation Council for Pharmacy Education** as a provider of continuing pharmacy education.

Disclosure

It is the policy of the American Academy of Clinical Toxicology to ensure balance, independence, objectivity and scientific rigor in all its educational activities. All faculty, authors, editors and planning committee members are required to disclose all relevant financial relationships with any commercial interest producing health care goods or services consumed by, or used on patients, with the exemption of non-profit or government organizations and non-health care related companies.

Physicians, Pharmacists, Nurses, and Certified Health Education Specialists should refer to page 15 for CE credit details.

Pre-Meeting Activities

Wednesday, September 21

AACT Pre-Meeting Symposium

- **Reducing the Harm Caused by Abused Drugs: Putting the Science into Public Policy**

Thursday, September 22

ACMT Pre-Meeting Symposium

- **Inside the Beltway and Beyond: The Intersection of Medical Toxicology and the Federal Government**

Special Opportunities for 2011

- **Hosted by the AACT Acute & Intensive Care SIG: Use of a Simulation Center for Clinical Toxicology Training**

Using a simulation mannequin, meeting attendees will be given the opportunity to observe and/or participate in using a simulation. An experienced technologist from Medical Education Technologies, Inc. will be on-site to demonstrate the use of a simulator in clinical toxicology education. The simulation center will be open throughout the meeting. The Simulation Center will be available:

Friday, September 23rd:	3:30 pm to 4:30 pm 4:30 pm to 5:30 pm
Saturday, September 24th:	11:00 am to 12:00 pm 12:00 pm to 1:00 pm 2:30 pm to 3:30 pm 3:30 pm to 4:30 pm
Sunday, September 25th:	4:00 pm to 5:00 pm 5:00 pm to 6:00 pm

ACPE Program Number: 0225-9999-11-208-L04-P / 1.0 credit

• **Toxicology History Room**

Posters featuring toxicology history, made available by the Society of Toxicology, will be on display.

• **Lifelong Learning and Self Assessment Course**

Monday • September 26th • 11:00 am - 1:00 pm

The American Board of Medical Specialties (ABMS) Medical Toxicology Sub-board facilitates continuous learning by identifying a set of Lifelong Learning and Self-Assessment (LLSA) readings every other year to guide diplomates in self-study of seminal Medical Toxicology literature. The AACT/ACMT LLSA Course provides a dynamic and comprehensive review of these articles, as well as the ability to take the ABMS LLSA examination.

Internet Café and wireless Internet access throughout all sessions

Tentative Schedule and Continuing Education Credit

Session	ACPE Program Number	Credit Hours*		
		RPh	MD	RN
Wednesday, September 21, 2011				
8:00 a.m. – 5:00 p.m. AACT Pre-Meeting Symposium: Reducing the Harm Caused by Abused Drugs	0225-9999-11-200-L04-P	6.5	6.5	6.5
Thursday, September 22, 2011				
8:00 a.m. – 5:00 p.m. ACMT Pre-Meeting Symposium: Inside the Beltway and Beyond	0225-9999-11-201-L04-P	6.5	6.5	6.5
1:00 p.m. – 4:00 p.m. Exhibit/Poster Session I Set-Up				
5:15 p.m. – 7:15 p.m. ACMT Clinical Pathophysiology Competition (CPC)	0225-9999-11-202-L04-P	2.0	2.0	2.0
Friday, September 23, 2011				
7:30 a.m. – 9:00 a.m. Keynote Presentation and Breakfast	0225-9999-11-203-L04-P	1.0	1.0	1.0
9:00 a.m. - 4:00 p.m. Exhibits/Posters Session I				
9:00 a.m. – 10:00 a.m. Authors with Posters				
10:00 a.m. – 12:00 p.m. AAPCC Scientific Symposium: The Intersection of Public Health and Poison Centers	0225-9999-11-204-L04-P	2.0	2.0	2.0
12:00 p.m. – 1:00 p.m. Lunch Break				
1:00 p.m. – 3:00 p.m. Platform Session 1	0225-9999-11-205-L04-P	2.0	2.0	2.0
3:00 p.m. – 3:30 p.m. Break				
3:30 p.m. – 5:30 p.m. AAPCC SPI Poison Center Best Practice Symposium	0225-9999-11-206-L04-P	2.0	2.0	2.0
3:30 p.m. – 5:30 p.m. Articles You May Have Missed	0225-9999-11-207-L04-P	2.0	2.0	2.0
3:30 p.m. – 5:30 p.m. Trainees Research Symposium	0225-9999-11-240-L04-P	2.0	2.0	2.0
6:00 p.m. – 7:00 p.m. Opening Reception				
7:00 p.m. – 9:00 p.m. SPI Awards/Quiz Bowl				
Saturday, September 24, 2011				
8:00 a.m. – 10:00 a.m. AACT Scientific Symposium: Cannabinoid Receptors, Agonists and Antagonists	0225-9999-11-210-L04-P	2.0	2.0	2.0
9:00 a.m. – 4:00 p.m. Exhibits/Posters Session II				
10:00 a.m. – 11:00 a.m. Authors with Posters				
11:00 a.m. – 12:00 p.m. Platform Session II (Pediatrics)	0225-9999-11-211-L04-P	1.0	1.0	1.0
11:00 a.m. – 12:00 p.m. AACT: Forensic SIG NAS Report: Regulatory Changes in Forensic Toxicology	0225-9999-11-212-L04-P	1.0	1.0	1.0
11:00 a.m. – 1:00 p.m. APAMT Symposium: Complimentary and Alternative Medicine Related Poisonings in Asia	0225-9999-11-213-L04-P	2.0	2.0	2.0
12:00 p.m. – 1:30 p.m. Lunch Break				
12:00 p.m. - 1:30 p.m. ACMT Fellows-in-Training Roundtable	0225-9999-11-214-L04-P		1.5	
1:00 p.m. - 2:30 p.m. AACT Pediatrics SIG: Teens, Tudes and Tests: Teen Use and Drug Testing	0225-9999-11-215-L04-P	1.5	1.5	1.5
1:30 p.m. - 3:30 p.m. CAPCC Symposium: Risk Assessment in Acetaminophen Overdose	0225-9999-11-216-L04-P	2.0	2.0	2.0
1:30 p.m. - 3:30 p.m. ACMT Practice Symposium	0225-9999-11-217-L04-P	2.0	2.0	2.0
2:45 p.m. - 6:00 p.m. AACT Pediatric Environmental Health and Translational Research Symposium	0225-9999-11-218-L04-P	3.0	3.0	3.0
3:30 p.m. - 4:00 p.m. Break				
4:00 p.m. – 5:00 p.m. AAPCC: Advancing the Mission of Poison Centers Through Advocacy	0225-9999-11-219-L04-P	1.0	1.0	1.0
4:00 p.m. – 5:00 p.m. AAPCC Veterinary Symposium: Animals as Sentinels of Human Exposures	0225-9999-11-220-L04-P	1.0	1.0	1.0
4:00 p.m. – 6:00 p.m. ABAT Symposium: Drugs of Tomorrow & Challenges of Today	0225-9999-11-221-L04-P	2.0	2.0	2.0

* The AACT reserves the right to adjust the maximum number of hours available pending changes in the program schedule.

NOTE: Shaded areas indicate concurrent sessions.

AACT = American Academy of Clinical Toxicology
 AAPCC = American Association of Poison Control Centers
 ABAT = American Board of Applied Toxicology
 ACMT = American College of Medical Toxicology
 APAMT = Asia Pacific Association of Medical Toxicology

CAPCC = Canadian Association of Poison Control Centres
 EAPCCT = European Association of Poisons Centres and Clinical Toxicologists
 SPI = Specialist in Poison Information
 SIG = Special Interest Group



Session	ACPE Program Number	Credit Hours*		
		RPh	MD	RN
Sunday, September 25, 2011				
8:00 a.m. – 10:00 a.m. ACMT Scientific Symposium: Liver Failure/Transplantation	0225-9999-11-222-L04-P	2.0	2.0	2.0
9:00 a.m. – 4:00 p.m. Exhibits/Poster Session III				
10:00 a.m. – 11:00 a.m. Authors with Posters				
11:00 a.m. – 12:00 p.m. AACT Career Achievement Lectureship: Junk Science	0225-9999-11-223-L04-P	1.0	1.0	1.0
12:00 p.m. – 1:30 p.m. Lunch Break				
12:00 p.m. – 1:30 p.m. ACMT Fellows-in-Training Luncheon	0225-9999-11-224-L04-P		1.5	
1:30 p.m. – 2:30 p.m. Platform Session III	0225-9999-11-225-L04-P	1.0	1.0	1.0
1:30 p.m. – 3:30 p.m. AACT Acute and Intensive Care Symposium: Toxicology Dilemmas & Controversies:	0225-9999-11-227-L04-P	2.0	2.0	2.0
1:30 p.m. – 3:30 p.m. AAPCC SPI Clinical Practice Symposium Medical Management of Hazardous Materials Incidents	0225-9999-11-228-L04-P	2.0	2.0	2.0
2:30 p.m. – 3:30 p.m. Platform Session IV	0225-9999-11-226-L04-P	1.0	1.0	1.0
3:30 p.m. – 4:00 p.m. Break				
4:00 p.m. – 5:00 p.m. AACT Envenomation SIG: Envenomations by Land, Sea, or Sky	0225-9999-11-229-L04-P	1.0	1.0	1.0
4:00 p.m. – 5:00 p.m. ACMT Ellenhorn Symposium	0225-9999-11-230-L04-P	1.0	1.0	1.0
4:00 p.m. – 6:00 p.m. AACT Radiation and WMD SIG Symposium	0225-9999-11-231-L04-P	2.0	2.0	2.0
5:00 p.m. – 6:00 p.m. AACT Herbal SIG	0225-9999-11-232-L04-P	1.0	1.0	1.0
5:00 p.m. – 6:00 p.m. AACT Year in Toxicology	0225-9999-11-233-L04-P	1.0	1.0	1.0
7:00 p.m. – 9:00 p.m. Toxicology History Society Symposium	0225-9999-11-209-L04-P	2.0	2.0	2.0
Monday, September 26, 2011				
7:00 a.m. – 11:00 p.m. Exhibits/Posters Session IV				
8:00 a.m. – 10:00 a.m. EAPCCT Symposium: The Changing Face of Recreational Drug Use in Europe	0225-9999-11-234-L04-P	2.0	2.0	2.0
8:00 a.m. – 10:00 a.m. WHO/IPCS Symposium: Investigation of Disease Outbreaks of Uncertain Etiology	0225-9999-11-235-L04-P	2.0	2.0	2.0
10:00 a.m. – 11:00 a.m. Authors/Posters				
11:00 a.m. – 12:00 p.m. NLM Symposium: Online Government Resources to Support Clinical Toxicology	0225-9999-11-236-L04-P	1.0	1.0	1.0
11:00 a.m. – 1:00 p.m. AAPCC SPI Roundtable: What You Really Want to Know, But Are Afraid to Ask	0225-9999-11-237-L04-P	2.0	2.0	2.0
11:00 a.m. – 1:00 p.m. AACT/ACMT LLSA Course	0225-9999-11-238-L04-P	3.0	3.0	3.0
12:00 p.m. – 1:00 p.m. AACT Occupational Environmental SIG: The Tennessee Fly Ash Disaster	0225-9999-11-239-L04-P	1.0	1.0	1.0
Maximum Hours		47.5	49.0	47.5*

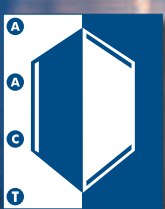
**Application for nursing credits has been submitted to the California Board of Nursing. Credit hours are preliminary, and subject to final approval.

* The AACT reserves the right to adjust the maximum number of hours available pending changes in the program schedule.

NOTE: Shaded areas indicate concurrent sessions.

IPCS = International Programme for Chemical Safety
 NLM = National Library of Medicine
 SPI = Specialist in Poison Information

WMD = Weapons of Mass Destruction
 SIG = Special Interest Group



AACT Pre-Meeting Symposium

Wednesday • September 21, 2011

Reducing the Harm Caused by Abused Drugs: *Putting the Science into Public Policy*

Toxicologists, while well versed in the diagnosis and treatment of a wide variety of poisonings, often lack an understanding of the legal system and may not be active in public health approaches to reduce the health risks from abused drugs. In addition, there is a disconnect between regulatory initiatives and public health outcomes. This symposium will provide information on the scientific aspects of, and the public policy approach towards, controls for the drugs most used in society (alcohol, nicotine, caffeine, opioids, and marijuana). This symposium's content will place existing regulations in a public health harm reduction model.

Objectives

At the end of the Pre-Meeting Symposium, the learner will be able to:

1. Describe the societal effects of the prohibition.
2. Understand how a public health model can be applied to drug policy to improved community health.
3. Describe methods to bring marginalized individuals into public health and primary care.
4. Understand the public health benefits of supervised injection facilities.
5. Understand the history of prohibition and its repeal.
6. Describe the public health benefits of a regulated model of alcohol consumption.
7. Understand the public health implications of tobacco control.
8. Describe the international framework convention on tobacco control.
9. Describe the challenges in developing vaccines against a toxin.
10. Understand the role of nicotine vaccines in smoking cessation.
11. Understand the scientific evidence that describe adverse health effects of highly caffeinated alcohol drinks.
12. Explain how the FDA was able to regulate highly caffeinated alcohol drinks.
13. Describe the potential medical benefits of marijuana.
14. Understand the evidence that compares the clinical effects of marijuana with pharmaceuticals.
15. Describe the Netherlands' model of marijuana regulation.
16. Compare and contrast the health effects of marijuana in regulated and unregulated societies.

► Moderators:

Robert S. Hoffman, MD, FAACT, FACMT, FRCP Edin
Director, NYC Poison Center
Associate Professor of Emergency Medicine and Medicine
New York University School of Medicine
Attending Physician, Bellevue Hospital Center

Barbara Kirrane, MD, FAACT
Assistant Professor, Emergency Medicine
Yale University
New Haven, Connecticut

Topics to be Covered:

- **Welcome and Introduction: Models of Control; Prohibition, Legalization, Restriction, Medicalization**
Robert S. Hoffman, MD, FAACT, FACMT, FRCP Edin
- **The Regulation of Illicit Drugs: A Public Health Approach**
Mark Haden, MSW; Clinical Supervisor, Addiction Services, Vancouver Coastal Health
- **North America's First Supervised Injection Facility - Evidence of Harm Reduction**
Brandon Marshal, PhD; Canadian Institutes of Health Research Fellowship Awardee, IAS/NIDA Fellowship in Encouraging HIV and Drug Use Research Recipient, Postdoctoral Fellow, Department of Epidemiology, Columbia University Mailman School of Public Health
- **Alcohol and the 21st Amendment: Regulation vs Prohibition**
Marc Sorini; Partner, McDermott Will & Emery LLP
- **Highly Caffeinated Alcohol Drinks: is There a Proven Risk**
Kirk Cumpston, DO; Medical Director, Virginia Poison Center; Assistant Professor, Division of Clinical Toxicology, Department of Emergency Medicine, Virginia Commonwealth University
- **Tobacco Addiction Science: Implications for International Regulation Under the Framework Convention on Tobacco Control**
Jack Henningfield; Health Policy Pinney Associates, Professor, Adjunct, and Director, Innovators Awards Program Dept. of Psychiatry and Behavioral Sciences, The Johns Hopkins University School of Medicine
- **Novel Approaches to Smoking Cessation: Nicotine Vaccines**
Dan Keyler, PharmD; Clinical Professor, Department of Experimental and Clinical Pharmacology, University of Minnesota College of Pharmacy
- **An Evidence-Based Look at Medical Marijuana**
Robert S. Hoffman, MD, FAACT, FACMT, FRCP Edin; Director, NYC Poison Center Associate Professor of Emergency Medicine and Medicine New York University School of Medicine Attending Physician, Bellevue Hospital Center
- **Marijuana Decriminalization: Walking the High Wire Between the Legislative Framework and Public Health**
Irma de Vries, MD; Associate Director, Dutch National Poisons Information Center





ACMT Pre-Meeting Symposium

Thursday • September 22, 2011

Inside the Beltway and Beyond: *The Intersection of Medical Toxicology and the Federal Government*

Government regulations and initiatives have a powerful impact on medical toxicology. From pharmacovigilance to public health crises, it is essential that toxicologists and poison information specialists remain current on the toxicologic issues facing the federal government, as well as their effects on clinical practice. This symposium highlights the intersection and interactions between the broad scope of human toxicology and U.S. government agencies. Experts from the Centers for Disease Control and Prevention, Department of Defense, Department of Homeland Security, Drug Enforcement Agency, Environmental Protection Agency, Federal Bureau of Investigation, Food and Drug Administration, and White House will discuss exciting areas of public health importance for their agency that are directly relevant to practicing toxicologists. This is a unique opportunity for an “insider” look at the role of toxicology at the federal level.

Objectives

At the end of the Pre-meeting Symposium, the learner will be able to:

1. Describe an overarching national strategy for chemical preparedness.
2. Describe the role of toxicologists working within the federal government.
3. Describe the types of toxicology cases that the FBI Laboratory receives.
4. Discuss several examples of the types of specimens the FBI Laboratory Toxicology Subunit analyzes.
5. Briefly summarize current management of casualties of the four major classes of chemical agents of potential use in warfare or terrorism.
6. Discuss next-generation products in advanced development within the Departments of Defense and of Health and Human Services to counter these threats.
7. Discuss and understand the role of the federal government and the clinical toxicology community in domestic and international outbreak investigation.
8. Discuss the brief history of recent toxic outbreaks and investigations at the CDC in which clinical toxicologists played an important role.
9. Describe the federal executive policy process and connection to health response activities in disasters.
10. Understand chemical preparedness and response national capabilities.
11. Discuss the variability in drug response in terms of efficacy and adverse events.
12. Describe initiatives in personalized medicine such as genomic biomarkers.
13. Discuss how FDA's Sentinel Initiative is responding to the Congressional mandate in the FDA Amendments Act of 2007 to develop an electronic system for post-marketing risk identification and analysis of medical product safety issues.
14. Describe the scientific methodologies and data infrastructure of FDA's pilot programs for active medical product surveillance.
15. Describe the federal government's response to chemical, biological, radiation, and oil release.
16. Describe the EPA Federal On Scene Coordinator's role and responsibilities.
17. Discuss the recent trends in pharmaceutical drug diversion.
18. Discuss the recent trends in illicit and designer drugs of abuse.

Thursday • September 22, 2011 (continued)

► **Moderators:**

Louise Kao, MD

Director, Medical Toxicology Fellowship
Associate Professor
Clinical Emergency Medicine
Indiana University School of Medicine

Michele Burns Ewald, MD

Medical Director:
MA/RI Poison Control Center
Director, Medical Toxicology Fellowship
Assistant Professor of Pediatrics
Harvard Medical School

Kavita Babu, MD

Assistant Professor
Division of Medical Toxicology
Department of Emergency Medicine
The Alpert Medical School
Brown University

Topics to be Covered:

► **Introduction and Opening Remarks**

Lewis Nelson, MD, FAACT, FACMT; President, American College of Medical Toxicology; Director, Fellowship in Medical Toxicology, Associate Professor of Emergency Medicine, New York University School of Medicine

► **Enhancing Preparedness Against Chemical Threats**

Mark A Kirk, MD, FACMT; Special Advisor for Chemical Defense and Medical Toxicology, Office of Health Affairs, Department of Homeland Security; Associate Professor, Department of Emergency Medicine, University of Virginia

► **The FBI Laboratory and Complicated Forensics**

Cynthia L. Morris-Kukoski, PharmD, DABAT; Forensic Examiner, Federal Bureau of Investigation Toxicology Laboratory

► **Updates From the Medical Chemical Defense Pipeline**

Jonathan Newmark, MD, FAAN; Deputy Joint Program Executive Officer, Medical Systems Joint Program Executive Office for Chemical/Biological Defense, US Department of Defense, Falls Church, Virginia; Adjunct Professor of Neurology, F. Edward Hébert School of Medicine Uniformed Services University of the Health Sciences; Consultant to the Surgeon General, Chemical Casualty Care

► **Toxic Outbreaks and Investigations**

Joshua Schier, MD, FACMT; Medical Toxicologist/ Epidemiologist, Centers for Disease Control and Prevention; Associate Director, Emory/CDC Medical Toxicology Fellowship; Assistant Professor of Emergency Medicine, Emory University School of Medicine

► **Health Preparedness Priorities: Intersection of Policy and Practice**

David “Marco” Marcozzi, MD, MHS-CL, FACEP; Director, All-Hazards Medical Preparedness Policy, White House National Security Staff

► **Pharmacogenomics and Personalized Medicine**

Lawrence J. Lesko, PhD, FCP; Director, Office of Clinical Pharmacology, Center for Drug Evaluation and Research, Food and Drug Administration

► **The Sentinel Initiative and Pharmacovigilance**

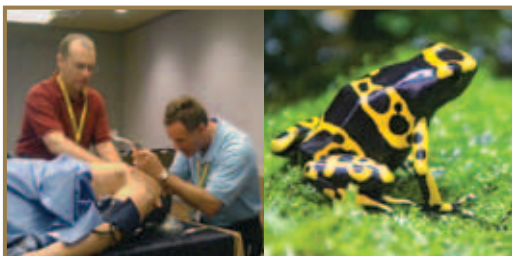
Monika Houstoun, PharmD, BCPS; Office of Surveillance and Epidemiology, Food and Drug Administration

► **EPA Emergency Response and Removal: From Oil to Anthrax**

Charlie Fitzsimmons; Federal On-Scene Coordinator, USEPA Region III

► **Trends in Drug Diversion**

Srihari Tella, PhD; Unit Chief, Drug and Chemical Control Unit, Drug and Chemical Evaluation Section, Office of Diversion Control, Drug Enforcement Administration



Pediatric Environmental Health & Toxicology

Saturday • September 24, 2011

One day registration available for the Pediatric Environmental Health & Toxicology Track

► Course Organizers:

Elizabeth Scharman, PharmD, DABAT, BCPS, FAAC

Professor of Clinical Pharmacy West
Virginia University
Director, West Virginia Poison Center
Charleston, West Virginia

Alan Woolf, MD, MPH, FAAC, FAAP, FACMT

Professor of Pediatrics
Harvard Medical School
Boston, Massachusetts

Robert Wright, MD, MPH

Associate Professor of Pediatrics &
Environmental Health
Harvard Medical School &
School of Public Health
Boston, Massachusetts

► 8:00-10:00 am: American Academy of Clinical Toxicology Scientific Symposium

Moderator: Robert S. Hoffman, MD, FAAC, FACMT, FRCP/Edin

“Cannabinoid Receptor Agonists and Antagonists: Gateway to Novel Therapeutics or Drugs of Abuse”

Jeffery Moran, PhD

Branch Chief, Environmental Chemistry
Arkansas Public Health Laboratory
Arkansas Department of Health
Little Rock, Arkansas

William E. Fantegrossi, PhD

Assistant Professor, Department of Pharmacology
and Toxicology
University of Arkansas for Medical Sciences
Little Rock, Arkansas

Learning Objectives: Participant will be able to:

- Describe the methods used to identify synthetic cannabinoids in bodily fluids and environmental specimens.
- Review the relationships between drug concentrations and clinical effects.
- Review the functions of cannabinoid receptors.
- Discuss the effects and adverse effects of cb receptor agonists and antagonists.

BREAK

► 10:00-Noon: Scientific Abstracts Poster Session II Authors with Posters

“Pediatric Toxicology Research”

► 11:00-Noon: NACCT Scientific Abstracts Platform Session

“Pediatric Toxicology & Environmental Health Research”

► Noon-1:00 pm LUNCH ON YOUR OWN

► 1:00-2:30 pm: American Academy of Clinical Toxicology Pediatric Toxicology Special Interest Group Symposium

“Tudes and Tests: Teen Use & Drug Testing”

Co-Moderators: Robert J. Hoffman, MS, FACEP, FAAEM, FACMT, FAAP; Department of Emergency Medicine, Beth Israel Medical Center New York, NY

Diane Calello, MD; Toxicologist, New Jersey Poison Information and Education System, Newark, NJ
Faculty, Pediatric Emergency Medicine, Morristown Memorial Hospital, Morristown, NJ

Substance Abuse in High School Students

Marsha F. Lopez, Ph.D., M.H.S

Chief, Epidemiology Research Branch
Division of Epidemiology, Services, and Prevention
Research National Institute on Drug Abuse
National Institutes of Health
Bethesda, MD

Drug Testing Policies in Schools

Jerrold B. Leikin MD, FAAC, FACMT, FACP, FACEP, FACOEM

Clinical Professor of Medicine
University of Chicago Pritzker School of Medicine
Director of Medical Toxicology
NorthShore University HealthSystem - OMEGA
Chicago, IL

Learning Objectives: The participant will be able to:

- Describe the incidence and prevalence of substance abuse in the adolescent with associated characteristics of individuals and communities.
- Discuss the science behind drug abuse.
- Discuss the utilization of random drug testing in the school setting.
- State the limitations to random drug testing in the school setting.

► 2:30-2:45 pm: BREAK

► 2:45-5:45 pm: American Academy of Clinical Toxicology Pediatric Environmental Health & Translational Research Symposium

**Co-Moderators: Jennifer Lowry, MD
Robert Wright, MD, MPH**

METALS POISONING

► 2:45-2:55 pm – Chronic Metals Poisoning in Washington, DC

Maryann Mazer, PharmD, BCPS, MD

Medical Toxicology Fellow,
National Capital Poison Center
Department of Emergency Medicine
George Washington University Hospital
Washington, DC

Saturday • September 24, 2011

- **2:55-3:30 pm – Toxicogenomics of heavy metals: common polymorphisms & related resilience vs vulnerability**
Robert Wright, MD, MPH
Region 1 New England PEHSU
Director, Superfund Research Program, Harvard School of Public Health
Associate Professor of Pediatrics & Environmental Health
Harvard Medical School & School of Public Health
Boston, MA

Learning Objectives: Participants will be able to

- Appreciate the subcellular mechanisms involved in the transport and storage of metals.
- Discuss the receptor polymorphisms important in mediating toxic effects of metals in children and adults.

- **3:30-3:45 pm – Discussion**

PESTICIDES POISONING

- **3:45-3:55 pm - Pesticide poisoning from residential termite extermination**

Jennifer Lowry, MD
Region 7 Mid-America PEHSU
Associate Professor of Pediatrics
University of Missouri
Pediatric Pharmacology & Medical Toxicology
Children's Mercy Hospitals & Clinics
Kansas City, MI

- **3:55-4:35 pm - Effects of residential pesticide use during pregnancy on birth outcomes and child mental, motor and behavioral development**

Robin M. Whyatt, DrPH
Professor of Clinical Environmental Health Sciences
Deputy Director
Columbia Center for Children's Environmental Health
New York City, NY

Learning Objectives: Participant will be able to:

- Discuss the need for collaboration between the physician, EPA and ATSDR in regard to pesticide exposures in the home.
- Acquire information that they can share with their patients on risk associated with residential pesticide use.
- Understand methods of low toxicity pest control.

- **4:35-4:50 pm – Discussion**

AUTISM & THE ENVIRONMENT

- **4:50-5:00 pm - Chronic antimony poisoning from supplements use by an autistic adolescent**

Robert Geller, MD
Region 4 Southeast PEHSU
Professor of Pediatrics
Emory University School of Medicine
Atlanta, GA

- **5:00-5:40 pm – Environment factors in autism: state of the science**

Irva Hertz-Picciotto, PhD, MPH
Professor & Chief, Division of Environmental and Occupational Health, Department of Public Health Sciences
Director, Northern California Collaborative for the National Children's Study
Deputy Director, Center for Children's Environmental Health
M.I.N.D. Institute (Medical Investigations of Neurodevelopmental Disorders)
University of California Davis, Sacramento, CA

Learning objectives: Participants will be able to:

- Identify two factors that have been associated with autism in population-based research.
- Identify misconceptions about the relative contributions of genetics and environment.

- **5:40-5:50 pm – Discussion**

American Association of Poison Control Centers Symposium

Friday • September 23, 2011

The Intersection of Public Health and Poison Centers

- **10:00 am - 12:00 pm**
- **Pandemics and All Hazards Preparedness Act**
- **Preparedness Response for a Chemical/Toxin Event**
- **The Role of Poison Centers in Public Health**
- **The Role of Poison Centers in a Regionalized Healthcare System**
- Featured Speaker**
Arthur L. Kellermann, MD, MPH, FACEP
Director of RAND Health; Paul O'Neill-Alcoa Chair in Policy Analysis; Senior Principal Researcher



AAPCC Public Education Track

Poison center educators, health educators, childhood injury prevention specialists, Certified Health Education Specialist (CHES)-eligible participants

Attendees of this track will have the opportunity to learn about best practices in poison prevention education and evidenced-based strategies targeted at specific audiences. Several sessions will offer interactive web experiences. This track runs concurrently with the clinical toxicology education sessions of the main congress.

Application has been made to the National Commission for Health Education Credentialing, Inc. (NCHEC) for CHES Category I continuing education contact hours (CECH).

Friday – September 23, 2011

Topics Covered:

- **Needs assessment workshop for educators**
Lauren M. Schwartz, MPH, New York City Poison Control Center
- **NPDS workshop**
Melissa Heinen, RN, BSN, MPH, CPH, Salus Consulting
- **AI Bronstein, MD, FACEP, Rocky Mountain Poison and Drug Center**
- **How does public health connect with poison prevention?**
Andrea Gielen, ScD, Johns Hopkins Bloomberg School of Public Health
- **Web-based technology for public health messaging**
Najja Howard, MPS, BA, Illinois Poison Center

Saturday – September 24, 2011

Topics Covered:

- **Time management – get more done**
Lee Livermore, BA, Upstate New York Poison Center
- **AAPCC updates**
Holly Wells, Education Manager, American Association of Poison Control Centers
- **Poisons in pop culture**
JoAnn Chambers-Emerson, RN, BSN, CSPI, Florida Poison Information Center
- **PEC sub-committee meetings**
Sub-committee chairs
- **Advancing the mission of poison centers through advocacy**
Amy Hanoian-Fontana, BA, MA, EMT-B, Connecticut Poison Control Center

Sunday – September 25, 2011

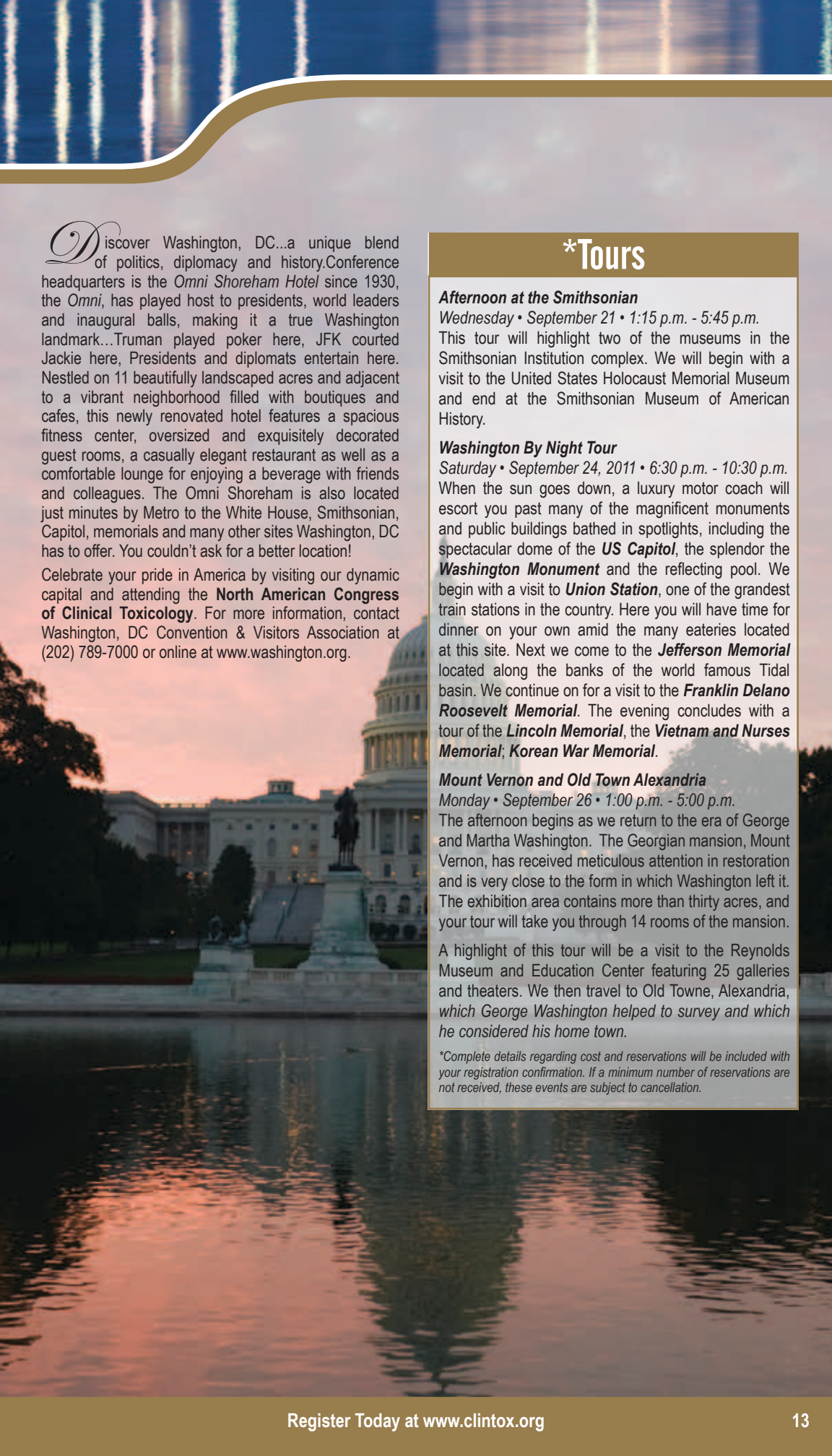
Topics Covered:

- **HRSA – Poison help campaign updates**
Elisa H. Gladstone, MPH, Director, Poison Control Program, Health Resources and Services Administration
- **Director's panel**
Moderator-Amy Hanoian-Fontana, BA, MA, EMT-B, Connecticut Poison Control Center
- **Using interactive games to educate**
Christina DiRienzo, BA, Palmetto Poison Center
- **A look at calls to the poison help line**
Evelyn Waring, RN, BSN, CSPI, Virginia Poison Center
- **Swap and share**
Liz Barta, BS, CHES, Arizona Poison & Drug Information Center

Monday – September 26, 2011

Topics Covered:

- **Everything you always wanted to know, but didn't know who to ask**
Christina DiRienzo, BA, Palmetto Poison Center
- **Brainstorm session for abstract and poster ideas**
Marty Malheiro, MS, MCHES, Utah Poison Control Center
- **Open planning meeting for NACCT 2012**
Mike Yudziky, BS, North Texas Poison Center
- **Marty Malheiro, MS, MCHES, Utah Poison Control Center**
- **PEC steering committee meeting**
PEC Co-Chairs: Rebecca L. Miller, MPH, BSN, CSPI, CHES, Northern New England Poison Center and Ronica Farrar, EMT-P, Texas Panhandle Poison Center



Discover Washington, DC...a unique blend of politics, diplomacy and history. Conference headquarters is the *Omni Shoreham Hotel* since 1930, the *Omni*, has played host to presidents, world leaders and inaugural balls, making it a true Washington landmark...Truman played poker here, JFK courted Jackie here, Presidents and diplomats entertain here. Nestled on 11 beautifully landscaped acres and adjacent to a vibrant neighborhood filled with boutiques and cafes, this newly renovated hotel features a spacious fitness center, oversized and exquisitely decorated guest rooms, a casually elegant restaurant as well as a comfortable lounge for enjoying a beverage with friends and colleagues. The *Omni Shoreham* is also located just minutes by Metro to the White House, Smithsonian, Capitol, memorials and many other sites Washington, DC has to offer. You couldn't ask for a better location!

Celebrate your pride in America by visiting our dynamic capital and attending the **North American Congress of Clinical Toxicology**. For more information, contact Washington, DC Convention & Visitors Association at (202) 789-7000 or online at www.washington.org.

*Tours

Afternoon at the Smithsonian

Wednesday • September 21 • 1:15 p.m. - 5:45 p.m.

This tour will highlight two of the museums in the Smithsonian Institution complex. We will begin with a visit to the United States Holocaust Memorial Museum and end at the Smithsonian Museum of American History.

Washington By Night Tour

Saturday • September 24, 2011 • 6:30 p.m. - 10:30 p.m.

When the sun goes down, a luxury motor coach will escort you past many of the magnificent monuments and public buildings bathed in spotlights, including the spectacular dome of the **US Capitol**, the splendor the **Washington Monument** and the reflecting pool. We begin with a visit to **Union Station**, one of the grandest train stations in the country. Here you will have time for dinner on your own amid the many eateries located at this site. Next we come to the **Jefferson Memorial** located along the banks of the world famous Tidal basin. We continue on for a visit to the **Franklin Delano Roosevelt Memorial**. The evening concludes with a tour of the **Lincoln Memorial**, the **Vietnam and Nurses Memorial**; **Korean War Memorial**.

Mount Vernon and Old Town Alexandria

Monday • September 26 • 1:00 p.m. - 5:00 p.m.

The afternoon begins as we return to the era of George and Martha Washington. The Georgian mansion, Mount Vernon, has received meticulous attention in restoration and is very close to the form in which Washington left it. The exhibition area contains more than thirty acres, and your tour will take you through 14 rooms of the mansion.

A highlight of this tour will be a visit to the Reynolds Museum and Education Center featuring 25 galleries and theaters. We then travel to Old Towne, Alexandria, which George Washington helped to survey and which he considered his home town.

**Complete details regarding cost and reservations will be included with your registration confirmation. If a minimum number of reservations are not received, these events are subject to cancellation.*



Registration Information

Registration Fees • NACCT Main Congress 2011 • September 23-26, 2011

	ADVANCE* until 8/10	REGULAR 8/11-8/26	LATE 8/27-onsite
AACT, AAPCC, ACMT CAPCC, EAPCCT Members**	\$550	\$625	\$750
SPIs, Poison Center Educators	\$375	\$425	\$575
Fellows-in-Training	\$375	\$425	\$575
Residents, Students	\$150	\$150	\$150
Active Duty Military Personnel***	\$375	\$425	\$575
Non-Members	\$810	\$850	\$935
Guest ****	\$ 40	\$ 40	\$ 40
CE Credit (MD, DO, Pharmacist, RN)	\$150	\$150	\$150

Registration Fees • Affiliated Programs

AACT Pre-Meeting Symposium <i>Wednesday, September 21</i>	
General Registration	\$280
AACT Members	\$195
SPIs/PC Educators	\$180
Fellows-in-Training	\$180
Residents, Students	\$ 75
Continuing Education Credit	\$ 55

ACMT Pre-Meeting Symposium <i>Thursday, September 22</i>	
General Registration	\$280
ACMT Members:	\$195
SPIs/PC Educators	\$180
Fellows-In-Training	\$180
Residents, Students	\$ 75
Continuing Education Credit	\$ 55

One Day Registration and Pediatric Environmental Health Track Registration Fee	
Registration - All categories	\$250
Continuing Education Credit	\$ 55

*Advance registration must be postmarked on or before August 10, 2011.

**Must be a current member of any of these organizations prior to registering for NACCT.

Contact Contemporary Forums if you are interested in becoming a member of a sponsoring organization.

***Military - Active members serving in the Army, Navy, Air Force, Marines, and Coast Guard of the United States of America.

****This charge allows participants' guests to attend the opening reception.

➤ Tuition includes Online Library Access, Continental Breakfasts, Coffee Breaks and Opening Reception.

➤ To register

Online - Go to www.clintox.org.

Fax - (800) 329-9923, Purchase Order, **Visa, MasterCard, or American Express** only.

Mail - NACCT Attn: Registrar, 6377 Clark Ave., Suite 200, Dublin, CA 94568. **Check payable to NACCT.**

Phone - Contemporary Forums Conference Management, (800) 377-7707, Monday-Friday, 8 a.m. - 5 p.m. (*Pacific Time*)

➤ **Access numbers for international registrants:** Phone (925) 828-7100 • Fax (925) 828-2121

➤ Registration must include full payment in US Funds to be processed. A \$30 fee is charged for any returned check or declined credit card.

➤ **Purchase Orders:** Purchase Orders must be received with registration by the conference date and include the P.O. number, invoice address, tuition, approval signature, and contact name, e-mail address and phone number.

➤ Confirmation of registration will be sent via email or mail.

➤ Cancellations received after **August 10, 2011** will be assessed a \$150 processing fee.

➤ Spouses and significant others may not attend the Opening Reception unless the Guest fee has been paid.

♿ If you have a disability requiring an auxiliary aid or special service while attending this meeting, please call (800) 377-7707, no later than September 10, 2011.

Hotel Accommodations

- The conference will be held at the **Omni Shoreham Hotel**, 2500 Calvert St., Washington, DC 20008. A limited block of rooms is being held for you and your guests at special group rates which will be in effect, based on room availability, from **Sept. 20 to Sept. 28** for those wishing to **extend their stay** to enjoy area activities or qualify for discount airfares.
- **Rates: \$249 single/double**
Rates are per room and subject to prevailing state and local taxes.
- To obtain the special group rates, **make your reservation early and before the “hotel room block release date” which is August 21.** Rooms may sell out before this date so be sure to make your reservation now. After the release date, rooms and group rates may no longer be available so call the hotel regarding availability.
- To reserve your room online, go to www.clintox.org, or call 1-800-843-6664 and inform them that you are attending the **NACCT** conference. Request a confirmation number and written confirmation of your reservation. Reservations must include a first night's deposit.
- Contact the hotel regarding cancellation policy. For arrivals after 3 p.m., call the hotel on the day of travel to reconfirm reservations.
- For additional hotel information, call the **Omni Shoreham** at (202) 234-0700.

Continuing Education Credit

This program was designed in accordance with the Accreditation Council for Pharmacy Education Quality Criteria and the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education. Application has been made to the National Commission for Health Education Credentialing, Inc. (NCHEC).

Physician

The American Academy of Clinical Toxicology designates this educational activity for a maximum of 49 AMA PRA Category 1 Credit(s)[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Pharmacy

This Congress will have multiple ACPE Universal Program numbers. Pharmacists can earn up to a maximum of 47.5 continuing education credit hours. Pharmacists should only claim credit commensurate with the extent of their participation in the activity.

Nursing

47.5 Continuing Education Contact Hours have been applied for.

Travel Information



Contemporary Forums has a special discount agreement with United Airlines unavailable to the general public. To obtain these special conference fares call the Special Meeting Desk at (800) 521-4041, **Account Code 510CW**. Ticketing and payment can be done directly by you or through your travel agent. To ensure the best flights and times, since seats are limited, make your reservations early. Fares are guaranteed at the time of ticket purchase.



Arrangements have been made with Hertz to be the official car rental agency for the NACCT Congress. Special rates will be in effect throughout the Congress as well as one week before and after. To obtain the special rates please call the Hertz Meeting Sales Desk at (800) 654-2240 and refer to the NACCT Congress or meeting **CV #03000258**.



Health Educators

CHES Category I continuing education contact hours pending.

Requirements for Successful Completion

To successfully complete the requirements for continuing medical education (CME) credit, continuing pharmaceutical education (CPE) credit, or continuing nursing education credit, complete the following steps:

1. Submit with your registration, the required Continuing Education Credit fee (\$150 for the Main Congress, \$55 for the ACMT Pre-Meeting Symposium, \$55 for the AACT Pre-Meeting Symposium). Single day registrants should submit \$55.
2. Complete an evaluation form for each session attended. Please list your suggestions for topics for future meetings.

(NOTE: Full CE credit cannot be claimed for all sessions within a concurrent (shaded) time block.)

AACT reserves the right to adjust the maximum number of hours available as necessary pending change in the program schedule.

ONLINE REGISTRATION AVAILABLE

Visit the American Academy of Clinical Toxicology website: www.clintox.org

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U.S. POSTAGE PAID
Permit No. 295

NACCT 2011 Registration Form

Fax (800) 329-9923 or mail this form with full payment (U.S. Funds) to:
NACCT, Attn: Registrar, 6377 Clark Ave., Suite 200, Dublin, CA 94568
or call (800) 377-7707.

MEMBERSHIP STATUS Please check all that apply

- AACT AAPCC ACMT CAPCC EAPCCT EDUCATOR/SPI

REGISTER ME FOR

- AACT Pre-Meeting Symposium - September 21
 Speaker
 ACMT Pre-Meeting Symposium - September 22
 Speaker
 NACCT Main Congress - September 23-26
 AACT Reception - September 24 (AACT Members only)
 I will attend the LLSA event - September 26
 One Day Registration
 Fri. 9/23 Sat. 9/24 (General Sessions) Sun. 9/25 Mon. 9/26
 Sat. 9/24 Pediatric Environmental Health & Toxicology Track

Fellow, Resident or Student: Check box to verify status:

- I am currently enrolled in an active fellowship, resident program and/or medical school.

PLEASE PRINT CLEARLY

First Name Last Name

Place of Employment

City State

Attendee Email (Registration confirmation will be sent to this address)

Mailing Address

City State Zip

Daytime Phone

SPECIAL EVENT GUEST

Congress attendees planning to bring a guest(s) to the Opening Reception, September 23, must pay an event fee of \$40 and provide name of guest(s) for identification badge:

PROFESSIONAL PROFILE

Choose ONE category in each section that best applies to you. If your work requires you to assume multiple roles, select the one that occupies the majority of your time. Use "Other" category only if none of the choices applies to you.

DEGREE

- BS Pharm
 DVM
 MD/DO
 PA/ARNP
 PharmD
 PhD
 RN
 Other: _____

POSITION/FUNCTION

- Administrator/Managing Director
 Clinical Toxicologist/Physician
 Educator
 Fellow
 Poison Center Educator/SPI
 Resident
 Student
 Other: _____

Please share with your colleagues

Contemporary Forums
6377 Clark Ave., Suite 200
Dublin, CA 94568

Code: PDF

PAYMENT SUMMARY

#822

Early Fee Postmark Deadline: August 10, 2011

Registration fees based on Membership and Position/Job Function (See page 14)

Table with 2 columns: Fee Category and Amount. Rows include AACT Pre-Meeting Symposium, ACMT Pre-Meeting Symposium, NACCT Main Congress, One Day Registration, Opening Reception Guest Fee, and TOTAL PAYMENT ENCLOSED.

- Check/Money Order Payable to NACCT (U.S. Funds)
 Visa MasterCard AMEX

Credit Card #

Exp. Date

Print Cardholder's Name

Billing Address

City State Zip

Payer Email Address

Payer Phone #

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