This symposium is designed for medical, health, pharmaceutical, and human service practitioners, educators, policymakers, law enforcement personnel, environmentalists, substance abuse professionals, and others concerned with the human and environmental impact of prescription drugs on individuals and their external environment.

See you in Portland, Maine
The exciting and beautiful coastal city of Portland, Maine offers a superb venue in which to learn, share ideas, and network with both a national and international gathering of authorities and other stakeholders on the major issues and challenges surrounding prescription drug use, misuse, abuse, return, and disposal.
Attendees will have the special opportunity to attend informative and thought provoking sessions on the full range of issues surrounding: 1) the environmental and social impact of unused prescription drugs stored in homes and flushed or otherwise discarded into the environment; 2) innovative return and disposal policy and program responses and related environmental issues; 3) the multitude of issues surrounding the use, misuse, abuse, and counterfeiting of prescription drugs; and 4) pertinent health, safety, and improved medication prescribing practices and policies.

**New Symposium Partner Announced**

We are excited to announce a new international partner with the symposium this year: Athens Institute for Education and Research (ATINER). Please visit their webpage for information on their conference “7th Annual International Symposium on Environment, 14-17 May 2012, Athens, Greece”: http://www.atiner.gr/environment.htm.

**Second Annual Meeting of the International Association of Drug Waste Prevention, Disposal, and Medicine Safety Organizations**

Concurrent with the symposium, the International Institute for Pharmaceutical Safety will convene the second annual meeting of the International Association of Drug Waste Prevention, Disposal, and Medicine Safety Organizations. It will be held starting at 4:00 pm on Sunday, October 2\textsuperscript{nd}. A second meeting will be held on Monday, October 3\textsuperscript{rd} at 5:15 pm. All symposium attendees are strongly encouraged to attend these meetings. Questions about the International Association should be addressed to Dr. Stevan Gressitt at gressitt@gmail.com.

**Maine Health Study Group Meeting**

The Maine Health Study Group will hold its meeting at the 8\textsuperscript{th} Annual International Symposium on Safe Medicine for 2011 (confirmed). Further information to follow shortly.

**Continuing Medical Education Credits Available**

The University of New England College of Osteopathic Medicine (UNECOM) is accredited by the American Osteopathic Association (AOA) and the Maine Medical Association (MMA) Council on Continuing Medical Education and Accreditation to provide continuing medical education for physicians. UNECOM has requested that the AOA Council on Continuing Medical Education approve this program for a maximum of 15 hours of AOA Category 2A CME credits. Approval is currently pending.

UNECOM designates this educational activity for a maximum of 14.50 **AMA PRA Category 1 Credit(s)**\textsuperscript{TM} and 11.75 University of New England contact hours for non-physicians. Contact hours may be submitted by non-physician, non-PA health professionals for continuing education credits. Each physician should claim only those hours that he/she actually spent in the activity.

**Continuing Pharmacy Education Credits Available**

The University of New England College of Pharmacy (UNE-COP) is accredited by the Accreditation Council for Pharmacy Education (ACPE) to provide continuing pharmacy education (CPE) for pharmacists. UNE-COP has requested that ACPE approve this program for a maximum of 15 hours of CPE credit. Approval is currently pending.

**Social Work Credits**

This activity may be eligible for 14.50 credits through the Maine Board of Social Work licensure.

*Physicians and other attendees should only claim credit commensurate with the extent of their participation in this activity. The University, upon receipt of this completed and signed form, will submit the osteopathic credits to the AOA.*

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Education (ACCME).

**Weather and Event Updates**

Registrants will receive local weather and event updates for the month preceding the conference.

**Corporate Sponsorship Levels**

For contributions up to $5,000, the contributing organization will be acknowledged as a contributor and provided two free registrations. For contributions between $5,000 and $10,000, the contributing organization will be acknowledged as a Sponsor, provided five free registrations; and assigned a free exhibition table at the meeting. For contributions greater than $10,000 the contributing organization will be acknowledged as a Patron, provided an unlimited number of free registrations, and assigned a free exhibition table at the meeting.
Sunday, October 2nd

International Institute for Pharmaceutical Safety
Second Annual Meeting of the International Association of Drug Waste Prevention, Disposal, and Medicine Safety Organizations
(All Invited)

4:00 pm – 6:00 pm

Facilitators:
Stevan Gressitt, MD, Founding Director, International Institute for Pharmaceutical Safety, Portland, ME
Rodney Larson, PhD, RPh, Founding Dean, Professor, College of Pharmacy, Husson University, Bangor, ME
Lenard W. Kaye, DSW, PhD, Director, University of Maine Center on Aging, Bangor, ME
Kenneth 'Mac' McCall III, PharmD, Chair and Associate Professor, Department of Pharmacy Practice, College of Pharmacy, University of New England, Portland, ME
Theo Theophanides, PhD, Emeritus Professor, National Technical University of Athens, Athens Greece and Academic Member and Director of Environmental Engineering at ATINER
John V. Schloss, PhD, Chair of Pharmaceutical Science and Research, Professor, Marshall University School of Pharmacy, Huntington, WV

Monday, October 3rd

7:30 am
REGISTRATION/CONTINENTAL BREAKFAST

8:30 am
Introductory Remarks
Stevan Gressitt, MD, Founding Director, International Institute for Pharmaceutical Safety, Portland, ME
Gayle Brazeau, PhD, Dean, College of Pharmacy, University of New England, Portland, ME

8:45 am
Keynote Speaker
Kenneth 'Mac' McCall III, PharmD, Chair and Associate Professor, Department of Pharmacy Practice, College of Pharmacy, University of New England, Portland, ME

9:15 am
Mailback Programming: Model Approaches from Maine, Wisconsin and the Pennsylvania Sea Grant Region
Facilitator:
Lenard W. Kaye, DSW, PhD, Director, University of Maine Center on Aging, Bangor, ME
Presenters:
Jennifer Crittenden, MSW, Project Director, Safe Medicine Disposal for ME, Bangor, ME
Melissa Boehm, Project Coordinator, Get the Meds Out, Milwaukee, WI
Marti A. Martz, Coastal Outreach Specialist, Pennsylvania Sea Grant, Erie, PA

10:15 am
BREAK

10:30 am
Bath Salts – Not for Human Consumption!
Rebecca Miller, MPH, BSN, CSPI, CHES, Northern New England Poison Center, Maine Health, Portland, ME

11:00 am
Screening Counterfeit Drugs Using PAT
Ravi C. Kalyanaraman, PhD, Senior Scientist II/Manager, Global Analytical Technology-Technical Operations, Bristol-Myers Squibb, New Brunswick, NJ

11:30 am
Detecting and Quantifying Substandard API Dosages in Essential Medicines
Julien Nicolas Bradley, MEd, MBA, Director of Product Management, Thermo Fisher Scientific, Wilmington, MA
12:00 pm | **Centralized Security Feature for Safe Medicine Management**
*Quincy L. Mattingly, PhD, Chemistry & M.B.A. International Marketing, Regional Manager, AlpVision, Chicago, IL*

12:30 pm | **LUNCH** - *Thomas Edward Delahanty, II, US Attorney, Maine*

1:30 pm | **Partnerships for Protecting Our Water Sources and Public Health: Medical Communities, Educators and the General Public**
*Marti A. Martz, Coastal Outreach Specialist, Pennsylvania Sea Grant, Erie, PA*
*Anna McCartney, Communication and Education Specialist, Pennsylvania Sea Grant, Erie, PA*

2:00 pm | **Community Strategies to Reduce Prescription Drug Diversion**
*Babara Sorondo, MD, MBA, Director, Clinical Research Center, Eastern Maine Medical Center, Bangor, ME.*

2:30 pm | **BREAK**

2:45 pm | **Counterfeit Medicines – A Tough Pill to Swallow**
*Jim Rittenburg, PhD, Vice President, Authentix Inc., Perkasie, PA*

3:15 pm | **Organizing a Medication Disposal Event: Results of a Pilot Project in New Hampshire**
*Helen C. Pervanas, PharmD, Assistant Professor of Pharmacy Practice, Massachusetts College of Pharmacy and Health Sciences, Manchester, NH*

3:45 pm | **Proper Disposal of Unused Medicines: Outreach and Education Efforts of Illinois-Indiana Sea Grant**
*Laura Kammin, MS, Pollution Prevention Specialist, Illinois-Indiana Sea Grant, Urbana, IL*

4:15 pm | **International Association Convention (All Invited)**
Facilitators:
*Stevan Gressitt, MD, Founding Director, International Institute for Pharmaceutical Safety, Portland, ME*
*Rodney Larson, PhD, RPh, Founding Dean, Professor, College of Pharmacy, Husson University, Bangor, ME*
*Lenard W. Kaye, DSW, PhD, Director, University of Maine Center on Aging, Bangor, ME*
*Kenneth 'Mac' McCall III, PharmD, Chair and Associate Professor, Department of Pharmacy Practice, College of Pharmacy, University of New England, Portland, ME*
*Theo Theophanides, PhD, Emeritus Professor, National Technical University of Athens, Athens Greece and Academic Member and Director of Environmental Engineering at ATINER, Athens, Greece*

5:15 pm | **Film Presentations: Vermont Room**
Host: *Stevan Gressitt, MD, Founding Director, International Institute for Pharmaceutical Safety, Portland, ME*

6:15 -7:00 pm | **RECEPTION – ALL SYMPOSIUM ATTENDEES INVITED**  *In the New Hampshire Room*

7:00 pm | **Film Presentations: Vermont Room**

**Accessing Healthcare at B-Street Health Center – 9 minutes**
*Donna Martinez, MSW, Director of Community Based Services, St. Mary’s/Community Clinical Services, Lewiston, ME*

**Don’t Flush me Bro! – 0.50 minutes**
**The Band – 0.44 minutes**
**The Horror – 0.43 minutes**
**Unwanted Guests – 0.45 minutes**
*Taylor Watson, Health and Environmental Investigator, Local Hazardous Waste Management Program, Seattle, WA*
**Second Tsunami**
7:30 am  REGISTRATION/CONTINENTAL BREAKFAST

8:00 am  Introductory Remarks
Rodney Larson, PhD, RPh, Founding Dean, Professor, College of Pharmacy, Husson University, Bangor, ME

8:15 am  Welcome
Gordon Smith, Esq., Executive Vice President, Maine Medical Association, Augusta, ME
Angela Westoff, Executive Director, Maine Osteopathic Association, Manchester, ME
Jeffrey Barkin, MD, PA, President, Maine Association of Psychiatric Physicians, Augusta, ME

8:25 am  Commissioner John E. Morris, Commissioner, Maine Department of Public Safety, Augusta, ME

8:30 am  Responsible Disposal of Unwanted Drugs Protects Source Water
Justin Pimpare, BS, Regional Pretreatment Coordinator, Region 1 New England, USEPA, Boston, MA

9:00 am  The Bi-County Safe Collection & Disposal of Rx Drugs Grant
Jayne E. Harper, MS, MCHES, Drug Overdose Prevention Educator, MaineGeneral Prevention Center, Augusta, ME
Karen Tucker, MSTD, Project Coordinator, Healthy Communities of the Capital Area, Gardiner, ME
Randall Liberty, Sheriff, Office of the Sheriff, Kennebec County, Maine
Karen Hawkes, MS, Director, HealthSebastian Valley, Healthy Sebastian Valley Coalition, Pittsfield, ME
Neill Miner, Project Director, Alliance for Substance Abuse Prevention (ASAP), Gardiner, ME
Gregory Cameron, RPh, Pharmacist

9:30 am  Multi-State Collection of Unused Medications: A Report of the Pharmaceutical Collection Monitoring System™
Jeanie Jaramillo, PharmD, Assistant Professor, Pharmacy Practice Management Division, Amarillo, TX

10:00 am  BREAK

10:15 am  Recommendations for Home-Generated Pharmaceutical Collection Programs in California
Burke A. Lucy, BS, Integrated Waste Management Specialist, CalRecycle, Sacramento, CA

10:45 am  Track and Trace System for Pharmaceutical Drugs
D. Scott Voss, PhD, President, SRC Healthcare Division, SRC Technologies, Inc., Chicago, IL
Sal Cali, CEO, SRC Technologies, Inc., Chicago, IL
John Shipley, SRC Technologies, Inc., Chicago, IL

11:45 am  The P2D2 Bill / Illinois House Bill 2056 – Paying for Pharmaceutical Disposal across America
Paul Anton Ritter, Teacher/Director, The National Prescription Pill and Drug Disposal Program Network (P2D2), Pontiac, IL
Megan Bozarth, Governmental Affairs/State Coordinator, The National Prescription Pill and Drug Disposal Program Network (P2D2), Pontiac, IL

12:15 pm  LUNCH – Title: Return of Unused Pharmaceuticals through the Mail
Daniel Barrett, MBA, USPS New Business Opportunities, Washington, DC

12:45 pm  Friendly Fire” of Military Prescription Drugs- An Epidemic of Sudden Cardiac Deaths
Fred A. Baughman, Jr., MS, MD, Neurologist/Pediatric Neurologist, Retired Activist, Writer and Speaker Regarding Mental Health, El Cajon, CA

1:15 pm  2011 American Medicine Chest Challenge
Angelo M. Valente, MA, CEO, American Medicine Chest Challenge, Millburn, NJ

1:45 pm  Evidence –based prescribing initiatives to improve access to safe, effective and affordable medicine: Outreach to prescribers, consumers and payers
Jennifer L. Reck, Policy Analyst, Prescription Policy Choices, Hallowell, ME
Ann Woloson, Executive Director, Prescription Policy Choices, Hallowell, ME

2:15 pm  Communication Strategies to Address Parents’ Vaccine Safety Concerns
Jiancheng Huang, MD, MSc, Director, Maine Immunization Program, Augusta, ME

2:45 pm  Break
3:00 pm  Treating Pain and Mitigating Medication Misuse in Berkshire County, Massachusetts: Strategies and Tools to Protect Patients
John F. Rogers, Esq., Vice President and General Counsel, Berkshire Health Systems, Pittsfield, MA
Ann E. McDonald, MN, Director, Berkshire Health Systems, Pittsfield, MA
Alex N. Sabo, MD, Chairman of Psychiatry and Behavioral Sciences, Berkshire Health Systems, Pittsfield, MA
Ron F. Hayden, MD, Chairman, Berkshire Health Systems, Pittsfield, MA

4:00 pm  Using the Maine Prescription Monitoring Program to Improve Prescribing Practices for Potentially Addictive Prescription Medications
Patricia A. Lapera, MPH, Monitoring Program Coordinator, DHHS, Office of Substance Abuse-State of Maine, Augusta, ME
Susan M. Payne, MPH, PhD, Professor and Senior Research Associate, University of Southern Maine, Muskie School of Health Policy, Portland, ME

4:30 pm  Directions in Public Policy on Prescription Drug Abuse
Jon Hinck, JD, Representative Maine State Legislature, Portland, ME

5:00 pm  Maine State Medication Take Back Data
Alexandra Malinowski, Generation Rx Co-Chair, University of New England APhA-ASP, Portland, ME
Student Pharmacists Collaborate both Locally and Nationally to Drive Efforts in Educating and Promoting Safe Medicine Practices and Proper Medication Disposal
Heather Stewart, Generation Rx Co-Chair, University of New England APhA-ASP, Portland, ME
Stevan Gressitt, MD, Founding Director, International Institute for Pharmaceutical Safety, Portland, ME

6:00 pm  CONCLUSION

CONFERENCE EXHIBITORS

(Partial List)

Husson University School of Pharmacy
International Institute for Pharmaceutical Safety
University of Maine Center on Aging
University of New England College of Pharmacy
Athens Institute for Education and Research (ATINER)
Community Medical Foundation for Patient Safety
(Poster presented by Matthew Mireles)
Eco Drug Disposal, In Harmony, LLC
Support for the International Institute for Pharmaceutical Safety has been received from Cactus and Illinois/Indiana Sea Grant
Session Descriptions/Learning Objectives

**SUNDAY, OCTOBER 2nd**  
Location: International Institute for Pharmaceutical Safety (All Invited)

4:00 pm – 6:00 pm  
Moderator: Stevan Gressitt

Stevan Gressitt  
Rodney Larson  
Lenard W. Kaye  
Kenneth ‘Mac’ McCall III  
Theo Theophanides  
John V. Schloss,

**MONDAY, OCTOBER 3rd**  
Location: TBD  
Moderator: Steev Sutton

8:45 am  
**Keynote Speaker**

**Controlled Substance Prescribing Trends and Physician and Pharmacy Utilization Patterns: Epidemiological Analysis of the Maine Prescription Monitoring Program, 2006-2010.**

Kenneth ‘Mac’ McCall III

The Maine Prescription Monitoring Program collects data for all Schedule II, III, and IV prescriptions dispensed by pharmacies licensed in Maine. Description of trends in this data will promote more focused attention on drug supply and access that underlie the growing prescription abuse problem.

Learning Objective 1 - Recognize state and national trends in prescription drug misuse and abuse  
Learning Objective 2 - Identify significant prescribing trends for Schedule II, III, and IV drugs from 2006 to 2010 in Maine.  
Learning Objective 3 - Identify significant relationships in physician and pharmacy utilization patterns in the Maine PMP.

9:15 am  
**Mailback Programming: Model Approaches from Maine, Wisconsin and the Pennsylvania Sea Grant Region**

Facilitator:  
Lenard W. Kaye

Presenters:  
Jennifer Crittenden  
Melissa Boehm  
Marti A. Martz

This session will include a panel of representatives from the Get the Meds Out Program in Wisconsin, Safe Medicine Disposal for ME, and the Pennsylvania Sea Grant. Panelists will explore the similarities and differences in these three programs while highlighting program approaches, distribution methods, outreach, partners, and local issues of interest behind disposal programming.

Learning Objective 1 - Identify the program structures, partners, and lessons learned thus far for three mailback programs  
Learning Objective 2 - Learn about data collection efforts for mailback programs  
Learning Objective 3 - Identify outreach messaging and marketing strategies for mailback programs

10:15 Break

10:30 am  
**Bath Salts – Not for Human Consumption!**
Rebecca Miller

Bath Salts abuse has become an alarming public health threat. This presentation and/or poster will describe the products that are used in bath salts, health effects, how they are used and the attraction the abuse of bath salts.

Learning Objective 1 - Each Participant will be able to describe at least two characteristics of abusable bath salts
Learning Objective 2 - Each participant will be able to name at least two health effects from bath salt abuse.
Learning Objective 3 - Each participant will be able to describe at least one current treatment for bath salt abuse.

11:00 am
**Screening Counterfeit Drugs Using PAT**

Ravi C. Kalyanaraman

This talk will feature the various portable analytical technologies for counterfeit drug detection in the field. Specifically, mid-IR, NIR and Raman handheld spectrometers and their signature development and validation will be discussed.

Learning Objective 1 - Current status of counterfeit drugs worldwide
Learning Objective 2 - Various portable analytical technologies for counterfeit detection
Learning Objective 3 - Raman, NIR and mid-IR portable technologies for counterfeit detection

11:30 am
**Detecting and Quantifying Substandard API Dosages in Essential Medicines**

Julien Nicolas Bradley

The growing worldwide impact of counterfeit and substandard medicines on human healthcare necessitates development of fieldable solutions for the detection of problematic medicines in a wide variety of testing environments. The need for instrument versatility has been met with portable spectroscopic instrumentation over the past decade. Commercially available, handheld spectrometers have been employed to screen for counterfeits with good success.

Learning Objective 1 - Learn about the basics of vibrational spectroscopy
Learning Objective 2 - Understand the role of handheld instruments for anti-counterfeiting
Learning Objective 3 - Understand how substandard APIs can be detected

12:00 pm
**Centralized Security Feature for Safe Medicine Management**

Quincy L. Mattingly

The presentation will show how a single computerized system which is located in a highly secure environment can protect the brand owner against counterfeit medicines using normal desk top tools in a decentralized organization while having manufacturing facilities of different brands and products in different markets.

Learning Objective 1 - Discover high level product authentication feature
Learning Objective 2 - How to use normal desk top tools for product authentication
Learning Objective 3 - Understanding that Track & Trace is not authentication

12:30 pm  **LUNCH** -  *Thomas Edward Delahanty, II*, US Attorney, Maine

1:30 pm
**Partnerships for Protecting Our Water Sources and Public Health: Medical Communities, Educators and the General Public**

Marti A. Martz
Anna McCartney

Many people play a role in developing, marketing and prescribing drugs, in filling prescriptions, and in consuming and disposing PPCPs. At each step in the process there is potential waste, an opportunity for waste minimization, and a choice for safer alternatives and disposal. PPCP manufacturers, doctors, pharmacists, and consumers can work together to eliminate waste, save money and reduce the amount of disposed PPCPs. This presentation will highlight efforts in the Great Lakes on developing community partnerships that involve medical professionals, educators, students and the general public so that each of these groups are engaged in solving this problem.

Learning Objective 1 - Participants will understand how chemicals from PPCPs enter the environment.
Learning Objective 2 - Participants will understand the impacts of these chemicals on wildlife.
Learning Objective 3 - Participants will understand how their actions, both professional and personal, can minimize the amount of PPCP chemicals that enter the environment.
2:00 pm
**Community Strategies to Reduce Prescription Drug Diversion**

Barbara Sorondo

EMHS has been collecting examples of local community based approaches to reducing drug diversion over the last 6 months. While there have been remarkable efforts, identifying opportunities to make local successes comprehensive across the state has met barriers. The presentation will cover learning experiences and plans to continue this work until more statewide solutions can be implemented.

Learning Objective 1 - Evaluate the methods used in communities to reduce diverted drugs
Learning Objective 2 - Develop consideration of challenges to make comprehensive standardized approaches to project successful in local communities
Learning Objective 3 - Identify major players needed to affect comprehensive approaches

2:30 Break

2:45 pm
**Counterfeit Medicines – A Tough Pill to Swallow**

Jim Rittenburg

Counterfeiting and diversion of medicines are all too common in today’s world of tumbling international trade barriers, easy global marketing reach via the Internet, and simple access to sophisticated manufacturing and packaging technologies. Drug counterfeiting has evolved from small scale, opportunistic, activities in less regulated parts of the world to what has now become a widespread global threat to consumers and brand owners. Informed estimates put the size of the annual global market in fake drugs somewhere in the region of $40 billion, representing about 5 - 10% of the global market for drugs. In some regions counterfeit drugs comprise over 50% of the market. These activities clearly put consumers at risk, threaten corporate and brand integrity, and generate significant cash for organized crime and terrorist groups. This presentation is aimed at raising awareness about counterfeit medicines and the strategies being developed to fight the problem.

Learning Objective 1 - Awareness of the dangers posed by counterfeit medicines
Learning Objective 2 - Government and Industry initiatives to improve supply chain integrity and protect patients from counterfeit healthcare products
Learning Objective 3 - Steps consumers can take to avoid counterfeits

3:15 pm
**Organizing a Medication Disposal Event: Results of a Pilot Project in New Hampshire**

Helen C. Pervanas

Improper medication disposal of unwanted and expired medications continues to be a concern for the environment and for public safety. Collection events offer consumers the opportunity to safely dispose of their medications. This educational session will report the results of a community based collection event and provide attendees with a step-by-step approach on how to organize a medication collection event to include information on cost, staffing, equipment and regulatory requirements.

Learning Objective 1 - Discuss the concerns related to improper medication disposal
Learning Objective 2 - Describe the steps involved in organizing a medication disposal event
Learning Objective 3 - Examine the results of a community based medication collection event

3:45 pm
**Proper Disposal of Unused Medicines: Outreach and Education Efforts of Illinois-Indiana Sea Grant**

Laura Kammin

Illinois-Indiana Sea Grant (IISG) has been educating communities about the proper disposal of unused medicines for several years. This presentation will provide an update of IISG’s outreach and education efforts. Topics to be covered will include overviews of
research funded by IISG, new partnerships being formed, and legislation in Illinois and Indiana that will have impacts on how communities collect and dispose of their unused medicines.

Learning Objective 1 - Participants will learn about the current direction of the IISG disposal of unwanted medicine program
Learning Objective 2 - Participants will learn about new partnerships between IISG and AVMA
Learning Objective 3 - Participants will learn about new legislation in IL and IN impacting medicine collections

4:15 pm
Engaging the Consumer in the Fight Against Counterfeiting
Alison K. Martin

Throughout Sproxil's two years of market experience in Nigeria, the company has been able to successfully leverage consumers in the fight against counterfeiting, finding that consumers are eager to engage in the process. This presentation will cover key learnings that have come out of Sproxil's call center interactions with patients including: • Details about potential counterfeit products --- including where suspicious products were purchased • Information about potentially substandard products • Areas of confusion for customers --- what questions are they asking with regularity? • Where customers are purchasing products (map distributions) • The ability to track and escalate adverse reactions These lessons have allowed brand owners and others to: • Focus anti-counterfeiting efforts • Quickly respond to potential issues • Adjust marketing efforts to clarify areas of confusion • See a geographic distribution of product sales that is not otherwise available.

Learning Objective 1 - Consumers are a vigilant force to fight counterfeiting
Learning Objective 2 - Consumers provide valuable information about potential counterfeits that allows brand owners to respond quickly and effectively
Learning Objective 3 - Consumers allow brand owners to focus their anti-counterfeiting efforts more effectively
Learning Objective 4 - Engaging directly with the consumer provides brand owners and others with a wealth of data not otherwise available.

4:45 pm
A Transformation of Unused Drugs to New Ones
Theo Theophanides

Hydrocortisone has numerous physiological actions, with the anti-inflammatory action as the most important one. Hydrocortisone, a corticosteroid drug, treats a variety of skin conditions. It is involved in the response to stress, in the carbohydrate, protein and glucose metabolism and it suppresses the immune system. On the other hand, metal ions play catalytic and structural role in many enzymes and proteins, while they could be used as organometallic drugs.

Learning Objective 1- Re-use of unused drugs that have been expired
Learning Objective 2- Formation of new drugs, which are adducts of the old Drugs
Learning Objective 3- Added value to the unused drugs

5:15 pm
International Association Convention (All Invited)
Stevan Gressitt, MD, Founding Director, International Institute for Pharmaceutical Safety, Portland, ME
Rodney Larson, PhD, RPh, Founding Dean, Professor, College of Pharmacy, Husson University, Bangor, ME
Lenard W. Kaye, DSW, PhD, Director, University of Maine Center on Aging, Bangor, ME
Kenneth 'Mac' McCall III, PharmD, Chair and Associate Professor, Department of Pharmacy Practice, College of Pharmacy, University of New England, Portland, ME
Theo Theophanides, Ph.D., Emeritus Professor, National Technical University of Athens, Athens Greece and Academic Member and Director of Environmental Engineering at ATINER
John V. Schloss, Ph.D., Chair of Pharmaceutical Science and Research, Professor, Marshall University School of Pharmacy, Huntington, WV

6:15 -7:00 pm Reception – The New Hampshire Room

7:00 pm
Film Presentations: Location: TBD
Host: Stevan Gressitt, MD, Founding Director, International Institute on Pharmaceutical Safety, Portland, ME
Donna Martinez, MSW, Director of Community Based Services, St. Mary's/Community Clinical Services, Lewiston, ME

Accessing Healthcare at B-Street Health Center – 9 minutes
Immigrants are an integral part of society, contributing to both the economy and diversity of our state. The disparities confronting immigrants are similar to those faced by many low-income working families, yet amplified with additional challenges including a language barrier between themselves and their healthcare providers. St. Mary's Health System and the Maine Health Access Foundation partnered together to create this video with the goals of: 1. Welcoming our new friends to the community,
2. Recognizing the importance of relationships in healthcare, and 3. Using the familiar to bridge the gap and introduce families to the array of opportunities for care such as Women's Health, Emergency Services, Dental Health and others in their community.

Taylor Watson, Health and Environmental Investigator, Local Hazardous Waste Management Program, Seattle, WA

Don't Flush me Bro! – 0.50 minutes
This video was created to reach audiences in a lighter and more humorous way to raise awareness of the more serious topic of the risks of improper storage and disposal of unwanted medicines. The featured message in this video delivered by the character, a pill guy, is "Your expired and unwanted medicines are out of your cabinet and are more popular than ever with your kids.

The Band – 0.44 minutes
This video was created to reach audiences in a lighter and more humorous way to raise awareness of the more serious topic of the risks of improper storage and disposal of unwanted medicines. The featured message in this video delivered by the character, "Pill Guy", is "Pill Guy is out of the cabinet and getting the band back together".

The Horror – 0.43 minutes
This video was created to reach audiences in a lighter and more humorous way to raise awareness of the more serious topic of the risks of improper storage and disposal of unwanted medicines. The featured message in this video delivered by the character, “Pill Guy”, is “Pill Guy is confronted with the horror of kitty litter”.

Unwanted Guests – 0.45 minutes
This video was created to reach audiences in a lighter and more humorous way to raise awareness of the more serious topic of the risks of improper storage and disposal of unwanted medicines. The featured message in this video delivered by the character, “Pill Guy”, is “Pill Guy is expired and out of the medicine cabinet. Have any unwanted guests hanging around your house?”

TUESDAY OCTOBER 4TH

8:30 am
Responsible Disposal of Unwanted Drugs Protects Source Water
Justin Pimpare

Prescription drugs that are no longer needed or have expired pose a public health and environmental risk. Adults over 65 take more drugs than all other age groups combined. The workshop will cover background on drug disposal legislation, results and successes of EPA funded grants focused on pharmaceutical disposal targeting older adults, a pilot project in the Potomac Basin, and how to develop and implement a train-the-trainers program. Statistics will be shared on the estimated growth of the aging population over the next 40 years, resulting in increased prescription drug expenditures. I will share a case study, including: Demonstrations and outreach to older adults on proper disposal of medicines safely at senior expos attended by 900 seniors, a "train-the-trainers" presentation on safe drug disposal for a Fairfax County, VA Area Agency on Aging staff meeting attended by 40 supervisors, conference call/webinar for 20 Area Agencies on Aging in Maryland.

Learning Objective 1 - Older adults are a key audience for addressing the improper drug disposal
Learning Objective 2 - Proper drug disposal protects source water
Learning Objective 3 - Some examples of how to reach older adults on proper drug disposal
Learning Objective 4 - Innovative program responses

9:00 am
The Bi-County Safe Collection & Disposal of Rx Drugs Grant
Jayne E. Harper
Karen Tucker,
Randall Liberty
Karen Hawkes
Neill Miner
Gregory Cameron

A panel will describe the coalition of law enforcement agencies, four public health collaboratives, and a health care system to prevent prescription drug diversion in central Maine. The year-long project will: [1] Create permanent, secure, and accessible prescription drug drop-off and collection services within 12 law enforcement agencies; [2] Replicate the Waterville Drug Offender Registry in two new locations in order to increase providers/pharmacies that identify known drug offenders and alter their prescription practices when appropriate; and [3] Recruit, train, and support 35 volunteer prescription drug educators who will teach 350 others how to prevent and reduce the problem

Learning Objective 1 - Participants will be able to describe three community based prescription drug misuse prevention initiatives that have been implemented in central Maine
Learning Objective 2 - Participants will be able to describe at least 1 key outcome from each initiative that has reduced prescription drug misuse in the area served
9:30 am

**Multi-State Collection of Unused Medications: A Report of the Pharmaceutical Collection Monitoring System™**

Jeanie Jaramillo

This program will include discussion of a root cause analysis of the problem of unused medications as well as an introduction to the Pharmaceutical Collection Monitoring System™--a system that may be used to document take back collections. The program also includes discussion of the results and implications of a multi-state medication take back data collection effort.

Learning Objective 1 – Describe a perspective on the current state of medication take back programs in regards to root cause analysis
Learning Objective 2 – Explain the Pharmaceutical Collection Monitoring System™
Learning Objective 3 - Review results of a multi-state data medication take back data collection effort

10:00 Break

10:15 am

**Recommendations for Home-Generated Pharmaceutical Collection Programs in California**

Burke A. Lucy

California's December 2010 Report to the Legislature titled, "Recommendations for Home-Generated Pharmaceutical Collection Programs in California" provides the most comprehensive review of any set of effective continuous collection sites, events, and mail-back programs in the U.S. The report analyzes the cost effectiveness ($/lb), accessibility (# of sites, hours/day, possible sites), safety (model programs, criteria met), and efficacy (total lbs, lbs/program) of law enforcement sites, pharmacies, household hazardous waste facilities, events, and three pilot mail-back programs.

Learning Objective 1 - Learn which collection program types may be most effective
Learning Objective 2 - View benchmarks for hundreds of programs and collection sites
Learning Objective 3 - Learn of the recommendations given to the California Legislature in 2011
Learning Objective 4 - Learn about the requirements for a model collection program in California
Learning Objective 5 - See the evolution of programs in the world and California over time

10:45 am

**Track and Trace System for Pharmaceutical Drugs**

D. Scott Voss
Sal Cali
John Shipley

Today's efforts at drug disposal lack efficient methods of determining critical information about what medicines have been collected in drug take back programs. This presentation explores the development of a comprehensive technology system that can track and trace pharmaceutical drugs from the raw materials used in manufacturing, through the supply chain and point of delivery, and ultimately to the proper disposal of unused or expired medicine. The presentation will delineate SRC's current track and trace system and explore its potential uses and implications for manufacturers, consumers, and regulatory agencies.

Learning Objective 1 - Participants will learn how current technology can achieve a comprehensive track and trace system
Learning Objective 2 - Participants will gain a better understanding of how a drug tracking system becomes the foundation for enhancing efforts for drug counterfeiting, drug diversion, pharmaceutical abuse and verified drug disposal.
Learning Objective 3 - Participants will learn about existing law that mandates a comprehensive pharmaceutical tracking system

11:45 am

**The P2D2 Bill / Illinois House Bill 2056 – Paying for Pharmaceutical Disposal Across America**

Paul Anton Ritter
Megan Bozarth

The Prescription Pill and Drug Disposal Program is a collaborative effort between students and communities. Its mission is to provide communities with a proper method of pharmaceutical disposal that effectively reduces the misuse and abuse of pharmaceuticals, as well as, ensures the quality of our water and wildlife for future generations. The P2D2 Bill / Illinois House Bill 2056, that unanimously passed the Illinois House and Senate, is special fund in the State treasury. Moneys generated will be used for grants to local law enforcement agencies to facilitate the collection, transportation, and incineration of pharmaceuticals from residential sources.
Learning Objective 1 - Development of a full time pharmaceutical disposal program.
Learning Objective 2 - Implementation of legislation that pays for a statewide pharmaceutical disposal program.
Learning Objective 3 - Civic engagement and environmental activism of students.

12:15 pm  LUNCH
Title: Return of Unused Pharmaceuticals through the Mail

Daniel J Barrett

Pharmaceutical Mail Back: The Postal Service is currently handling the returns of unused drugs from end consumers and industry. We will discuss the unique advantages of using the USPS for the return of unused medications, learnings from past pharma recovery programs and the future of pharmaceutical returns through the mail.

Learning Objectives 1- How to use the mail for the return of unwanted drugs
Learning Objectives 2- Current regulations and USPS
Learning Objectives 3- USPS Sustainability Goals

12:45 pm
“Friendly Fire” of Military Prescription Drugs- An Epidemic of Sudden Cardiac Deaths

Fred A. Baughman, Jr

May 24, 2010, PRNewswire/ Fred A. Baughman Jr., MD (excerpt): Upon reading the May 24, 2008, Charleston (WV) Gazette article "Vets Taking Post traumatic Stress Disorder Drugs Die in Sleep," Baughman began to investigate why these deaths were "different" the "tip of an iceberg." Andrew White, Eric Layne, Nicholas Endicott and Derek Johnson died in their sleep in early 2008. They did not commit suicide and did not "overdose" leading to coma as suggested by the military. All were diagnosed with PTSD. All seemed "normal" when they went to bed. And, all were on Seroquel (an antipsychotic) Paxil (an antidepressant) and Klonopin (a benzodiazepine). They were not comatose and unarousable - with pulse and respirations or pulse intact, responsive to CPR, surviving transport you a hospital, frequently surviving. These were sudden cardiac deaths. In a literature review entitled Sudden Cardiac Death Secondary to Antidepressant and Antipsychotic Drugs: [Expert Opinion on Drug Safety; 2008, Number 2, March 2008, pp. 181-194(14)] Sicouri and Antzelevitch conclude: "Antipsychotics can increase cardiac risk even at low doses whereas antidepressants do it generally at high doses or in the setting of drug combinations." On April 22, 2010 I anonymously received "SIRS' Serious Incident Reports) 10/03/09-3/7/10/" In it were listed: Total ARNG (Army National Guard) "Accident Fatalities--20; Suicide--32 (6 confirmed 12 pending); Combat--8; Illness caused--23; Other deaths--10; Total--93. Among the listed: 10/19/09 "illness heart attack", 10/28/09 "illness cardiac arrest", 11/10/09 "other found dead"; 11/14/09 "other found dead"; 11/28/09 "illness heart attack"; 12/26/09 "illness heart attack"; 1/2/10 "illness cardiac arrest"; 2/7/10 "illness cardiac arrest"; 2/9/10 "illness cardiac arrest"; 2/10/10 "illness cardiac arrest." Here we have 13 of 93 (14%) definite or probable sudden cardiac deaths. To date, July 13, 2011 we have Googled over 250 probable daytime and nighttime sudden cardiac arrests, eight known to have been on psychotropic polypharmacy including an antipsychotic. How many more there are among these young men and women dying probable sudden cardiac deaths, the military has not said.

Learning Objective 1 - learn what the 'dead in bed' syndrome is
Learning Objective 2 - learn the differential diagnosis of 'dead in bed' syndrome
Learning Objective 3 - learn which drugs prolong the QT interval
Learning Objective 4 - learn to distinguish CNS depression from sudden cardiac death
Learning Objective 5 - learn how psychotropic drugs are being used in the military

1:15 pm
2011 American Medicine Chest Challenge

Angelo Valente

The seminar will cover the American Medicine Chest Challenge (AMCC), the country's largest private/non-profit sector response to the issue of prescription drug abuse, awareness, and disposal. A review of the results for the 2010 AMCC event that included participation from 37 states and 2 Indian nations will be discussed including a detailed analysis of community-based leadership that resulted in over $8 million of in-kind exposure to the issue of prescription drug abuse. Research from AMCC partners throughout the country, as well as independent research conducted by Rutger's University in NJ, will be presented. Also, AMCC's 2011 national media campaign featuring opportunities for local community coalitions to personalize images based on demographic diversity will be reviewed.

Learning Objective 1- Prescription drug abuse awareness campaign
Learning Objective 2- 2011 media campaign review
Learning Objective 3- Detailed analysis of community-based leadership during 2010 AMCC
1:45 pm  
**Evidence–based prescribing initiatives to improve access to safe, effective and affordable medicine: Outreach to prescribers, consumers and payers**

Jennifer L. Reck,  
Ann Woloson,

Pharmaceutical marketing actively attempts to influence prescribers, consumers and payers. In the effort to improve access to safe, effective and affordable prescription drugs, Prescription Policy Choices (PPC) supports efforts to promote evidence-based prescribing to each of these three groups. Ongoing efforts include academic detailing, Consumer Reports Health Best Buy Drugs and policy efforts to enable evidence-based preferred drug lists.

Learning Objective 1 - Understand the impact of pharmaceutical industry marketing on prescribers and consumers.  
Learning Objective 2 - Describe independent outreach efforts to encourage evidence-based prescribing to prescribers and consumers.  
Learning Objective 3 - Analyze industry marketing to payers and its impact on prescribing.

2:15 pm  
**Communication Strategies to Address Parents’ Vaccine Safety Concerns**

Jiancheng Huang

Some common and devastating vaccine-preventable diseases prior to the middle of last century became very rare nowadays due to vast immunization efforts in the past several decades. These diseases are so rare that sociocultural attitude to vaccine have changed drastically. One of changes is the concerns on vaccine safety. Although most of the concerns are groundless, they are quite prevailed in some communities. In order to keep vaccine-preventable diseases out of communities, vaccine safety concerns should be effectively addressed. This presentation will review some evidences and propose some strategies.

Learning Objective 1 - Review sociocultural changes in the attitudes toward immunization, including vaccine safety concerns  
Learning Objective 2 - Review existing studies and data on vaccine safety  
Learning Objective 3 - Learn some communication skills to effectively address patients' vaccine safety concerns

2:45 pm  
**Break**

3:00 pm  
**Treating Pain and Mitigating Medication Misuse in Berkshire County, Massachusetts: Strategies and Tools to Protect Patients**

John F. Rogers  
Ann E. McDonald  
Alex N. Sabo  
Ron F. Hayden

Beginning in 2004, Berkshire Health Systems, the principal health care provider in the westernmost county of Massachusetts, marshaled physicians, nurses, pharmacists, schools, and court systems to develop strategies for minimizing the risk of abuse and diversion, while improving care for patients with chronic pain. Clinicians, along with other community stakeholders, have developed patient care tools and communication systems (maximizing the EHR and PMP), promoted an Oxy-free ED, continued regular multidisciplinary planning and conferences to enhance care and sustain skills, and sponsored community initiatives, including cross-county drug take back programs. We will explain design considerations and implementation challenges, strategies and successes.

Learning Objective 1 - Participants will be able to list critical community partners to combat prescription drug abuse across the continuum of the population  
Learning Objective 2 - Participants will be able define strategies to maintain continuity of care for complex patients with chronic pain  
Learning Objective 3 - Participants will be able to describe Berkshire County’s standards of care for patients with chronic pain  
Learning Objective 4 - Participants will be able to envision how to effectiveness of projects with community partners in their own community

4:00 pm  
**Using the Maine Prescription Monitoring Program to Improve Prescribing Practices for Potentially Addictive Prescription Medications**

Patricia A. Lapera  
Susan M. Payne
The presenters will give an overview of problems in Maine with respect to misuse and abuse of potentially addictive (controlled) prescription medications; describe the Maine Prescription Monitoring Program (PMP); describe how health care providers can use the PMP to improve prescribing practices; and give examples of how providers are using the PMP to improve their prescribing practices. The intended audience includes prescribers and dispensers in Maine; leaders and managers of health care provider organizations and health care systems.

Learning Objective 1 – To inform the audience about the need to improve the prescribing of potentially addictive prescription medications ("controlled" medications).
Learning Objective 2 – To inform the audience about the Maine PMP
Learning Objective 3 – To provide evidence that use of the PMP can improve prescribing practices.
Learning Objective 4 – To simulate the audience to think about using the PMP as a tool to improve prescribing practices for potentially addictive (controlled) prescription medications.

4:30pm
**Directions in Public Policy on Prescription Drug Abuse**

Jon Hinck

Maine and other states are grappling with the impacts of prescription drug abuse problems. For a number of reasons, Maine finds itself on the front lines. The most recent initiatives in the Maine legislature have focused on best practices for the prescribers and pharmacists. The legislature has also worked on after-life collection and disposal issues. All interest groups and participants in government, the chain of commerce, the medical community and law enforcement have a role. Some perspectives are offered on how effective our collective efforts stand to be.

Learning Objective 1- Identify the key points addressed in LD 1501, An Act to Reduce Opioid Overprescription, Overuse and Abuse.
Learning Objective 2-Learn about the issues raised and interests identified during the legislative process on the bill.
Learning Objective 3-Learn about what the legislature passed and where the process is likely to go during implementation.

5:00 pm
**Student Pharmacists Collaborate both Locally and Nationally to Drive Efforts in Educating and Promoting Safe Medicine Practices and Proper Medication Disposal**

Alexandra Malinowski

This presentation will raise awareness on student pharmacist committees within APhA-ASP. The overwhelming abuse of prescription medication has raised the issue of proper medication disposal and waste. The University of New England APhA's Generation Rx committee has taken nationwide strides to collaborate student pharmacists, countless health professionals and the DEA in the efforts to dispose of unused medication properly and to educate children and our community. This presentation will outline the efforts of the 2010-2011 year in order to encourage growth for future events and raise awareness nationally with support from collaborative health professionals.

Learning Objective 1 - To increase understanding of why P2D2 and Teleosis are considered failed efforts and why APhA's Generation Rx is obtaining nationwide success.
Learning Objective 2 - To demonstrate ways that active student pharmacists can impact efforts regarding safe medication use.
Learning Objective 3 - To increase awareness of student pharmacists' efforts to advocate for pharmacists and health care professionals at the legislative level such as MTM.
Learning Objective 4 - To emphasize that without student pharmacists' efforts to promote safe medication practices, the data obtained from the medication take back events would not exists.

**Maine State Medication Take Back Data**

Stevan Gressitt
Heather Stewart

This session will discuss the state of Maine results from the "National Medication Take Back" event. The presentation will highlight the coordination efforts required to host the event, medication classes that were returned, and the amount of prescription waste. It will also include a comparison between the data from the Maine state mail-back program "Safe Medication Disposal for Me" and the "National Medication Take Back" event.

Learning Objective 1 - To summarize the Maine data collected from the DEA "National Medication Take Back" event.
Learning Objective 2 - To raise awareness of the growing need for successful medication disposal programs.
Learning Objective 3 - To compare and contrast results from the "Safe Medication Disposal for Me" program and the DEA "National Medication Take Back" event.

6:00 pm—**CONCLUSION**