



Chicago, Illinois • May 18 - 20, 2009

AGENDA

Monday, May 18, 2009

9:30 a.m. - 1:30 p.m. **(Offsite Activity) Seeking LEED Gold Certification: A Tour of Advocate Lutheran General Hospital's Tower Project** *(Limited to 50 People)*

Cost: \$75.00 (includes shuttle and lunch)

Advocate Lutheran General Hospital
1775 Dempster St.
Park Ridge, Illinois

Advocate Lutheran General Hospital is a 617- bed teaching, research and referral hospital, a Level I trauma center, and one of the largest hospitals in the Chicago area. It also is home to Advocate Lutheran General Children's Hospital, the only children's hospital in the greater north and northwest suburban area of Chicago and a major regional referral center for a broad range of infant and pediatric services.

Over 180 individuals were involved in the design process of the new structure, a 192-room, 393,000 square foot tower. The building, scheduled for occupancy in June 2009, features large single rooms with dedicated family zones to enhance safety, privacy and comfort, improved facilities for the treatment needs of patients, and many special features and conveniences. Large expanses of glass used in the building play an important role, providing a healing environment by allowing generous amounts of natural lighting in patient rooms, family lounges and staff work areas.

Schedule

9:30 a.m. Shuttle to Lutheran General Hospital
10:30 a.m. - 11:30 p.m. - Hospital Tour
11:30 p.m. - 12:30 p.m. - Lunch and Q&A with Al Manshum
12:30 p.m. - Shuttle to Hyatt
1:30 p.m. - Arrive back at Hyatt

9:30 a.m. - 12:30 p.m. **Health Care Providers and Environmental Exposures: We Live and Learn**

Cost: \$50.00

Dr. Kristen Welker-Hood, ScD, RN
Dr. Richard Grady, MD.

This will be the first discussion of the results of Physicians for Social Responsibility's Health Care Professional Biomonitoring Project. This study contains an analysis of exposure to toxins of a group of nurses and physicians. It will present critical information on potential body burden of health care professionals.

Monday, May 18, 2009

1:00 p.m. - 4:00 p.m. **Energy Efficiency and Renewable Energy in Health Care**

Cost: \$250.00

Practice Greenhealth–Healthcare Clean Energy Exchange and Premier Inc.
In collaboration with The Department of Energy (DOE) and Environmental Protection Agency (EPA)

Program Objectives

- List the top ten specific technologies and quick wins that hospitals should focus on to improve their energy efficiency and make an effective business case around energy efficiency improvements
- Review the green power markets, including availability of renewable energy, benefits, costs and method to purchase, and role of EPA
- Review the energy challenges facing hospitals, the urgent need for action and the role of senior leadership in energy management
- Identify best practices and tips for successful system-wide energy management program, including role of all stakeholders

2:30 p.m. - 5:30 p.m. **Designing the Regenerative Hospital: An Imperative for the 21st Century**

Cost: \$250.00

Ray Pradinuk, MBAIC, Stantec Architecture

Scott Slotterback, Kaiser Permanente

Kim Shinn, PE, TLC Engineering

Jerry Smith, ASLA, LEED AP, Director of Healthcare & Sustainable Initiatives, MSI

Kalpna Kuttaiah, Associate AIA, LEED AP, Associate, Perkins+Will

Can we transform today's healing environments into living or 'regenerative' buildings? Can we move from 'doing less harm' to 'restoring what has been lost'? Can we heal the earth as we heal ourselves? How will we bring this future into being? These are some of the questions framing the development of the next generation of the *Green Guide for Health Care*. Workshop participants will help to shape a strategic vision of the 21st century hospital as a "regenerative building." Using the framework of Regenerative Design defined by the GGHC steering committee as a starting point, the workshop will postulate how hospital design can be re-imagined to meet this emerging imperative. Workshop participants will explore scenarios for several key elements of regenerative buildings. The findings will be conveyed to the developers of the next generation *Green Guide*. Creative thought leaders, prepared to envision the hospital of the future, are urged to sign up for this workshop.

Monday, May 18, 2009

4:00 p.m. - 5:30 p.m. **Greenhealth Tracker™: A Demo of Practice Greenhealth's Environmental Data Tracking Tool**
(Limited to 50 People)

Cost: Free

*Mary Larsen, MS, Vice President, Business Development, Practice Greenhealth
Christina Vernon Ayers, AIA, LEED AP, Director Office for a Healthy Environment, Cleveland Clinic
Ellen Kretchmar, Project Manager, Practice Greenhealth*

Learn how Practice Greenhealth's new web-based environmental data tracking system, Greenhealth Tracker™, can help your organization measure and monitor its waste stream activity, analyze opportunities to reduce costs associated with waste management and disposal, and benchmark against hospital organizations nationally. See a live system demonstration, hear how a major hospital system is using the system to reduce its waste and costs, and find out why your organization does not want to miss the opportunity to be a Greenhealth Tracker™ user!

4:00 p.m. - 5:30 p.m. **Early Registration**

5:30 p.m. - 7:00 p.m. **Opening Reception & Exhibits**

(Dinner on your own)

7:00 p.m. - 10:00 p.m. **Practice Greenhealth Hospitality Suite**

Tuesday, May 19, 2009

7:30 a.m. - 5:30 p.m. **Registration**

7:30 a.m. - 8:30 a.m. **Exhibits & Continental Breakfast**

8:30 a.m. - 10:15 a.m. **Opening Session**

Introduction

Gary Cohen, Health Care Without Harm

Suzanne Malec-McKenna, Commissioner of Chicago's Department of the Environment

Welcome Remarks

Plenary Panel with Chicago Hospital Leadership

Presentations by Al Manshum, AIA, Vice President, Design and Construction, Advocate Healthcare

Stanley Robinson, Executive Director, University of Chicago Medical Center

Mary Gregoire, PhD, RD, Director, Food and Nutrition Services, Rush University Medical Center, Professor and Chair, Clinical Nutrition, Rush University

Moderated by Peter Orris, M.D., Professor and Associate Director of the Great Lakes Center for Occupational and Environmental Safety and Health of the University of Illinois School Of Public Health

10:15 a.m. - 10:45 am. **Exhibits & Break**

11:00 a.m. - 12:00 pm. **Concurrent Panels (A)**

A1 Kaiser Modesto Hospital Equipment Deployment Packaging Recycling "Yes, Virginia, there really is a way to recycle Styrofoam" (60 minutes)

Carol Antle, MPH, Vice President, Capital Projects Operations, National Facilities Services, Kaiser Permanente

Jeffrey Deane, Project Director, Kaiser Permanente

This presentation addresses hospital construction waste recycling and specifically the path of developing a process to minimize the packaging materials into the waste stream from the installation the furniture and equipment of a new hospital. Learn about opportunities to reduce waste during construction while installing a new space and how Kaiser took lessons-learned from one Kaiser Facility and rolled it out to other sites, based on the waste reduction and cost saving opportunities experienced at Kaiser Modesto.

A2 Twenty First Century Environmental Health and Safety: A "Value-Add" to Healthcare Organizations" (60 minutes)

Jeff Camplin, BS, CSP, CPEA, President, Camplin Environmental Services, Inc.

Mark Lestina, Sustainability Manager, University of Chicago Medical Center

Today, with increasing globalization, greater environmental and social awareness, and more efficient communication, the concept of healthcare's responsibilities extends beyond their drive to be merely legally compliant and profit-related, has gained new impetus. In order to succeed, the healthcare industry now has to be seen to be acting responsibly towards the 3 P's: people, planet and profit. Corporate social responsibility and sustainability is an inspiring, challenging, and strategically important development that is becoming an increasingly significant priority for large healthcare organizations. The safety, health, and environmental professional needs to be aware of the opportunities and challenges they face in this evolving global corporate environment. The environmental, health and/or safety profession as we now know it must realign itself as a value-add to its stakeholders and become the champion for people, the planet, and profits.

Tuesday, May 19, 2009

A3 Greening Surgical and Patient Textiles (60 minutes)

Heather Hocker, Organic Exchange

Steven J. Tinker, BS, Chemistry, University of Minnesota., President, American Reusable Textile Association, Also currently the Vice President of Research & Development, Gurtler Industries, Inc.

Two views of hospital textiles using an EPP lens: Organic Exchange's focus on the health and environmental impacts of cotton cultivation and the American Reusable Textile Association's rationale for reusable surgical textiles for waste reduction.

A4 American Nurses Association's Principles of Environmental Health for Nursing Practice with Implementation Strategies (60 minutes)

Holly Carpenter, BSN, RN, Senior Staff Specialist, American Nurses Association

Nancy Hughes, MS, RN, Director, Center for Occupational and Environmental Health, American Nurses Association

This discusses environmental health principles in nursing practice, prepares nurses as environmental health care advocate as well as provider and is a call to action for nurses to rediscover their profession's traditional environmental health roots.

A5 Public Health Impacts of GMOS and Nanotechnology in our Foods (60 minutes)

Jennifer Sass, PhD, Senior Scientist, Natural Resources Defense Council

Sarah Janssen, MD, PhD, MPH, Natural Resources Defense Council

Over the last 60 years our society has created an industrialized food system. This system has come at the expense of a host of ecological impacts. Nanotechnology and GMOs are offered as technological interventions to solve this problem. Will they?

A6 Translating Green Initiatives into Sustainable Practices at your Facility (60 minutes)

Mark Rossi, PhD, Research Director, Clean Production Action

Thomas Moore, PharmD, President, Global Pharmaceuticals, Hospira

Sue Heffernan, RN-BC, MN, CNS, Nursing Professional Development, Seattle Children's Hospital

Employing greening initiatives can be a challenge at a hospital. "Translating Green Initiatives into Sustainable Practices at your Facility" will demonstrate how to take the national green movements and apply them at a local level.

A7 Design Beyond Your Borders: Working with Your Community to Sustain a Vision (60 minutes)

Lorissa MacAllister, LEED, Healthcare Market Leader, Progressive AE

Tom Stankewicz, Director, Planning & Research, Saint Mary's Health Care

To effectively advance its mission and its commitment to sustainability, this urban hospital recognized the importance of incorporating the voices of external businesses, neighborhoods, and the city to create a sustainable community master plan.

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A8 Sustainable Healthcare Architecture: Where are we now? (60 minutes)

Gail Vittori, Co-Director, Center for Maximum Potential Building Systems

This captivating session postulates a new challenge for healthcare: a carbon-neutral, PBT-free, zero-waste, water-balanced, aspirational future that will define a high performance hospital in the 21st century. Presenting material drawn from her 2008 book, *Sustainable Healthcare Architecture*, and more recent industry data, the session will challenge participants using a range of ideas linking together the divergent fields of architecture, public health, environmental health and sustainable design to create a vision of the 21st century hospital. Building upon the case studies presented in the book, the session will further the conversation about where LEED, the Green Guide, and the broader health care industry is one year following its release.

A9 Implementing Green Cleaning in Healthcare (60 minutes)

Cheryl Baldwin, PhD, Vice President, Green Seal
Stephen Ashkin, Executive Director, Green Cleaning Network

This presentation provides an overview of environmental and health considerations associated with cleaning products, and ways to identify more sustainable options. It is designed to help materials and environmental service managers identify the appropriate strategies to implement Green Cleaning, including the selection and use of cleaning chemicals, janitorial equipment, and paper products, as well as staff training to ensure comprehensive implementation of green cleaning strategies and policies.

12:00 p.m. - 1:15 p.m. **Lunch & Awards**

1:15 p.m. - 2:45 p.m. **Concurrent Panels (B)**

B1 Regional Partnerships for Guiding Health Care Greening (90 Minutes)

Teresa Mendez-Quigley, MSW, LSW, Director, Environmental Stewardship, Women's Health & Environmental Network (WHEN), Philadelphia
Joan Plisko, PhD, Technical Director, Maryland H2E
Emma Sirois, MS, Director, Health Care Without Harm, Oregon Center for Environmental Health, Portland

Utilizing regional partnerships of governmental agencies, nonprofit environmental health groups, and other healthcare facilities, hospitals can maximize greening and sustainability in a collaborative environment.

B2 Prevention Through Design in the Health Care Sector (90 Minutes)

Donna Heidel, CIH, PtD Coordinator, National Institute for Occupational Safety and Health
Margaret Quinn, ScD, CIH, Professor, University of Massachusetts Lowell
Erica Stewart, CIH, EH&S Senior Manager, Kaiser Permanente

Elimination of injuries and illnesses is the goal of NIOSH's new Prevention through Design (PtD) initiative. This session will detail what's being done in the health care sector to design out chemical, physical and biological hazards.

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B3 Developing Long-Term Stewardship for Pharmaceuticals (90 Minutes)

*Julie Becker, PhD, MPH, MA, President, Women's Health and Environmental Network
Catherine J. Woods, JD, Associate Counsel and Senior Director, Corporate Compliance, Excellerx Inc.
Mary Hendrickson, RPh, MBA, Director of Quality & Regulatory Affairs, Capital Returns, Inc.*

This presentation will review existing healthcare and public programs for safer pharmaceutical disposal; highlight opportunities for long-term solutions beyond collection and one-time events, including educating healthcare personnel and the public.

B4 Catching More Fish with a Net: Getting to Safer Products through Chemicals Policy (90 Minutes)

*Mark Rossi, PhD, Research Director, Clean Production Action
Rachelle Reyes Wenger, MPA, Director, Public Policy & Community Advocacy
Al Iannuzzi, PhD, Environmental Policy, Senior Director EHS Tech Services, Johnson & Johnson*

This session will explore the implications of an outdated chemical regulatory system for health care, propose a critical role for health care in advocating for systemic reform, and introduce successful models at the institutional level for change.

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B5 Bisphenol A: A Hot Topic -- Addressing Science, Alternatives and Chemicals Policy (90 Minutes)

Sarah Janssen, MD, PhD, MPH, Scientist, Natural Resources Defense Council

Timothy J. Greiner, BS Materials Science Engineer, MBA, MS Environmental Policy, Managing Director, Pure Strategies

David Wallinga, MD, MPA Director, Food and Health Program, Institute for Agriculture and Trade Policy

This presentation "Bisphenol A: A Hot Topic" explores the latest science on sources of exposure and toxicity of this ubiquitous chemical of concern, as well as safer alternatives and policy actions to phase out BPA and protect health.

B6 Sustainability in Healthcare Food Service: Models from Global Health and Safety Initiative Partners (90 Minutes)

Michael O'Connell, MHA, FACMPE, FACHE, Vice President, Operations and Physician Services, Huron Hospital, a Cleveland Clinic Hospital

Josh Edge, Farm to Institution Program Associate, Community Alliance with Family Farmers

Kathleen Reed, MS, Sustainable Food Program Manager, Kaiser Permanente

Huron Hospital, a Cleveland Clinic Hospital, and Kaiser Permanente are leading the path to sustainable food service. These healthcare leaders are both Healthy Food in Healthcare Pledge signers and members of the Global Health and Safety Initiative. Kaiser will share information on their partnership with CAFF to source local produce from family farms which has increased farmer access to the markets, expanded community access to local fresh healthy produce, and reduced carbon emissions by shortening distribution routes. Huron Hospital will provide key examples from their journey to create a healthier environment for its employees, physicians, visitors, and patients through development of a more sustainable food service department.

B7 Climate Action Strategies at Kaiser Permanente (90 Minutes)

Tom Cooper, National Manager, Sustainable Buildings Design and Research, Kaiser Permanente

Joe Bialowitz, MS, HEM, National Environmental Health & Safety Consultant, Kaiser Permanente University

In response to the health effects of global warming Kaiser Permanente has aligned its climate action strategy with its' social mission of delivering high quality, affordable health care. Learn how KP is taking an integrated approach to this challenge.

B8 New Developments in Climate Change Law, Policy and Planning (90 Minutes)

Walt Vernon, BE, BS, MBA, JD, PE, LEED AP, Principal, Mazzetti Nash Lipsey Burch

Arash Guity, PE, LEED AP, MBA, Associate, Mechanical Engineer, Mazzetti Nash Lipsey Burch

Get ahead of accelerating changes at the state and national level, including California's Global Warming Solutions Act, which includes a timetable to meet the Kyoto Protocol. We'll emphasize how climate-related legal and policy developments are -or will soon- impact health care facilities, including emissions, energy and water consumption, siting/land use, and wastes. How should senior management decide what kinds of investments will best help the institution navigate a carbon constrained world, while balancing patient and staff needs, utility rates, financial uncertainty, legislation and public concern? How can you develop a framework to align all these variables with organizational objectives, starting with a green house gas inventory to drive results?

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B9 Clean Energy Strategies for Health Care Facilities (90 Minutes)

Allison Buttel, Director of Clean Energy Markets, Think Energy, Inc.
Al Neuner, CHFM, Associate Vice President Facility Operations, Geisinger Health System
Vince Pryor, Chief Financial Officer, Ingalls Health Systems
Clark Reed, Director, Healthcare Facilities Division, Energy Star, EPA

Renewable energy has a lot to offer health care; learn how best to implement clean energy projects at your facilities. Hear case studies addressing the various possible technologies, financing, risks and benefits, including solar electric, solar hot water and thermal systems, wind turbines, biomass and cogeneration, and best practices in web-based reverse auction clean energy procurement. Here lessons learned from early adopters and leading experts.

B10 Eco-Effective Design and Evidence-Based Design: Removing the Barriers to Integration (60 Minutes)

Mara Baum, A.B., M.Arch.,C.C.P., AIA, LEED, AP, Designer & Sustainability Specialist, Anshen & Allen
Mardelle Shepley, AIA, ACHA, D.Arch, Professor and Director of the Center for Health Systems & Design at Texas A&M University

This presentation summarizes research on the relationship between evidence-based design & eco-effective design, identifying conflicts and synergies that enable integration of both practices into healthcare facility design and operations.

B11 Three Health Systems - Three Shades of Green (90 Minutes)

Hubert Murray, AIA, RIBA, Manager of Sustainable Initiatives, Partners Healthcare
Bob McCoole, Vice President, Facilities Resource Group, Ascension Health
Christina Vernon Ayers, AIA, LEED AP, Director, Office for Health Environment, Cleveland Clinic

Three large health care systems – Ascension Health, Cleveland Clinic and Partners HealthCare – each with its own structure and scope, are approaching the task of greening their hospitals and their operations from different angles. Leaders from the organizations tasked with sustainability policy and implementation discuss and compare strategies for success and lessons learned.

2:45 p.m. - 4:00 p.m.

Exhibits & Posters

4:00 p.m. - 5:00 p.m.

Concurrent Panels (C)

C1 The Intersection of Patient-Focused Care and Environmental Sustainability (60 Minutes)

Janet Brown, Director of Sustainable Operations, Practice Greenhealth
Kimberly Nelson Montague, AIA, MCARB, Director of Design Consultation Services, Planetree
Jessica M. Prata, Sustainability Officer, NewYork-Presbyterian Hospital

Explore the integration of environmental improvement strategies within the patient-focused model of care. Understand the patient-focused criteria and the potential to integrate ongoing environmental quality improvement initiatives into the healing team activities. New York Presbyterian will provide a case study of their greening activity as a member of Practice Greenhealth and their patient-focused care work as a Planetree Affiliate.

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C2 Reprocessing of SUDs & Sustainability: Positioning Reprocessing to Contribute to Your Facility's Environmental & Financial Bottom Lines (60 Minutes)

*Lory Olsson, Vice President of Operations, Association of Medical Device Reprocessors
J. Michael Jones, FACHE, Director, Clinical Education and Sustainability, Health Trust Purchasing Group*

The healthcare sector of the economy consumes substantial financial and materials resources annually. This educational session will provide background on the practice of regulated reprocessing of single use disposable items and focus specifically on Health Trust's efforts to position reprocessing as a major contributor toward improvement of resource usage, and reductions in medical waste.

C3 Waste Prevention and Management Strategies for Healthcare Foodservice (60 Minutes)

*Andrew Shakman, President & CEO, LeanPath, Inc .
Michael Geller, Sustainability Coordinator, Providence Health and Services, Portland, OR*

Sustainable foodservice is a goal that healthcare administrators and foodservice operators are pursuing aggressively, and is proven to result in saving money, improving environmental impact and engaging the community. This presentation discusses best practices for food waste management and how hospital foodservice operators can best reduce, reuse and recycle pre- and post-consumer food waste.

Presentation will review the Green Guide for Health Care Food Services section, which outlines best practices for sustainable food waste management through source reduction, food recovery and composting. The presenter will first identify auditing, tracking and goal setting practices that support initial efforts in source reduction of food waste. Food recovery and donation programs will be identified as a way to re-use product safely. Separating food waste and composting options will be addressed as well. A facility case study will round out the program.

C4 Creating Solutions to Pharmaceutical Pollution...Nuts and Bolts of Medication Take Back Programs (60 Minutes)

*Michelle Lauer, RN, MSN, BC, Patient Care Coordinator, Department of Psychiatry, Christianacare
Bettie Kettell, RN, Pollution Prevention Coordinator, Mid Coast Hospital, Brunswick, Maine*

This presentation will discuss health and safety threats related to unused pharmaceuticals and describe the planning process for conducting a community medication take back event. Regulatory barriers, challenges and rewards will be highlighted.

C5 Managing Formaldehyde and other Chemicals in Hospitals: Challenges, Solutions and Opportunities (60 Minutes)

*Victoria Jas, ABD (PhD, Environmental Studies), Principal, Victoria Jas, LLC
Sheila Lockwood, BS-Chemistry, CHMM, Compliance Outreach Coordinator, University of Washington School of Medicine*

This presentation explores the unique aspects of smaller hospitals and their management needs for handling chemicals safely, including pollution prevention, creating systems that allow for downgrading into smaller generator status, and how small facilities can use networks to create infrastructure to attract vendors. It also addresses how the University of Washington Medicine Pathology Departments developed a system for safer management of formaldehyde through a Specimen Discard Station. This system consolidates discard operations, reduces employee exposure to formaldehyde and allows on-site waste treatment.

Tuesday, May 19, 2009

C6 Case Studies in Energy Upgrades with Bottom Line Benefits: Lessons from the Field (60 Minutes)

*Rachel Adams, LEED AP, Project Manager, NYSERDA
Michael Reid, Senior Director, Amerinet*

"Health care facilities use vast amounts of energy and water, exacerbated by aging infrastructure, and a lack of strategic energy planning. Many health care leaders wrongly believe energy costs not really controllable, and many facility managers act only when something's broken and/or there's an easily achievable resolution. Only 50% of health care facilities actively measure energy efficiency. Gain a better understanding of these issues, become familiar with major factors affecting consumption, and gain knowledge of solutions. Hear New York's Focus on Healthcare program manager describe case studies of facilities' successfully reaching out internally to strengthen their plans for energy efficiency, including their methodology and practices. She'll demonstrate how projects have been implemented and how the results have improved the bottom line for the hospital while making it a more sustainable, healing environment."

C7 Administrator and Staff Preference and Perceptions Regarding Sustainable Design (60 Minutes)

*Rana Sagha Zadeh, M.Arch. LEED AP, is a PhD student at Texas A&M
Mardelle Shepley, AIA, ACHA, LEED AP, is a professor and director of the Center for Health Systems & Design at Texas A&M*

This research explores the relationship between technical effectiveness in sustainable environments and the human experience or appreciation of those environments.

C8 Resilient Flooring Alternatives for HealthCare: Benefits & Challenges (60 Minutes)

*Julie Silas, Director Health Care Projects, Healthy Building Network
Tom Cooper, National Manager Sustainable Design and Research, Kaiser Permanente
Stephen Dempsey, Director of Facilities, Planning and Construction, Brigham & Women's Hospital*

Resilient floors cover millions of square ft. of hospitals. Learn about the health & environmental attributes of these materials, their installation and maintenance issues, and some intangible benefits of using alternatives to vinyl.

C9 Export of Hazards: The Global Dimensions of Mercury in Health Care (60 Minutes)

*Merci Ferrer, Executive Director, Health Care Without Harm, Southeast Asia Initiatives in Asia to Eliminate Mercury in Health Care—the national phase-out of mercury-based medical devices.
Veronica Odriozola, Executive Director, Health Care Without Harm, Latin America Initiatives in Latin America to Eliminate Mercury in Health Care: Case Studies from Five Latin American Countries.
Jamie Harvie, PE, Institute for a Sustainable Future, USA*

Health Care Without Harm and the World Health Organization are co-leading a global partnership to achieve virtual elimination of mercury-based thermometers and sphygmomanometers over the next decade and their substitution with accurate, economically viable alternatives. The partnership is a component of the UN Environment Programmer's Mercury Products Partnership led by the US EPA.

5:00 p.m. - 6:30 p.m.

Exhibits & Reception

Tuesday, May 19, 2009

6:30 p.m. - 9:00 p.m.

Practice Greenhealth Environmental Excellence Awards Ceremony with Keynote by Howard Frumkin, NCEH / ATSDR

Practice Greenhealth Environmental Excellence Awards Ceremony

Don't miss this opportunity to get the credit you deserve for your environmental programs! Award recipients represent hospitals and other providers of care as well as healthcare-related businesses and organizations. The awards program is designed to reward and encourage organizations from those that have just begun their environmental programs, to those whose programs are well established and are leading the healthcare sector with innovative projects. And this year, we are happy to add a new award category, through the generous support of Hospira, for hospitals that are showing the greatest efforts in reducing the use of DEHP-containing devices. All Practice Greenhealth members are eligible to apply for an award. The deadline for applying is February 9, 2009.

Keynote Speaker - Howard Frumkin, MD, MPH, DrPH

Director, National Center for Environmental Health, Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention

Wednesday, May 20, 2009

7:30 a.m. - 12:00 p.m. **Registration**

7:30 a.m. - 8:30 a.m. **Exhibits & Continental Breakfast**

8:30 a.m. - 10:00 a.m. **Opening Session with Keynote by Ray Baxter, Kaiser Permanente**

Skoll Foundation video on the international work of Health Care Without Harm

Keynote Speaker - Ray Baxter, PhD

Senior Vice President, Community Benefit, Research and Health Policy, Kaiser Permanente

How 'Health Activism' Can Create Healthy Communities

10:00 a.m. - 10:45 a.m. **Poster Sessions with Author Q&A, Exhibits & Break**

11:00 a.m. - 12:30 p.m. **Concurrent Panels (D)**

D1 Promoting the Culture of Change (90 Minutes)

Ruth Abramson, BA, MES, Corporate Manager, Environmental Sustainability, British Columbia Provincial Health Services Authority

Kai Abelkis, BS, Sustainability Coordinator, Boulder Community Hospital, Colorado

Rick Beckler, Director of Hospitality Services, Sacred Heart Hospital, Eau Claire, WI

This workshop will provide you with sustainability tools you'll need to reduce your organization's social, economic, and ecological footprint. It will present a case study of a hospital that has used its resources to promote cost-effective business practices, aligned its vision and values with the community, and enhanced its market share. It will discuss several unique and replicable health care innovations and the development and implementation of "green" policies to assure the highest standards of corporate environmental responsibility.

D2 Greening Your Electronics Program: Steps From Procurement Through End-of-Life (90 Minutes)

Sue Chiang, BA, MPP, MPH, Pollution Prevention Director, Center for Environmental Health

Emma Sirois, MS, Director, Health Care Without Harm, Oregon Center for Environmental Health

Michael Howell, MS, Senior Vice President, Technology, Broadlane

CEH will unveil the Healthcare Electronics Initiative, including concrete steps for greening the purchase, management and disposal of electronics; OCEH will share a recycling survey tool; and Broadlane will share its server virtualization experience.

D3 Greening Maryland Hospitals – A Comprehensive Approach (90 Minutes)

Joan Plisko, PhD, Technical Director, Maryland Hospitals for a Healthy Environment

Barbara Sattler, RN, DrPh, FAAN, Professor, University of Maryland School of Nursing

Louise Mitchell, PT, Sustainable Foods Coordinator, Maryland Hospitals for a Healthy Environment

Denise Choiniere, RN, Nurse Coordinator, Maryland Hospitals for a Healthy Environment

Over 70% of the acute care hospitals in Maryland are working on sustainability issues. One third have green teams. MD H2E has generated over one million dollars and created an exemplary model of state sustainability operations for healthcare.

D4 There's Gotta be a Better Way: Participatory Workshop on Reducing the Use of Toxic and Untested Chemicals in the Products You Use (90 Minutes)

Lara Sutherland, B.S. Director of Environmental Purchasing Consulting, Practice Greenhealth

This interactive session explores what health care organizations can do to seek out suppliers and manufacturers who are taking responsibility for identifying all the chemicals in their products, and reducing their use of problematic and untested chemicals.

Wednesday, May 20, 2009

D5 Using Purchasing Power to Phase out Brominated Flame Retardants and PVC (90 Minutes)

*Ted Schettler, MD, MPH, Director, Science and Environmental Health Network
Mark Rossi, PhD, Research Director, Clean Production Action
Gina Pugliese, RN, MS, Vice President, Safety Institute, Premier, Inc.
Harrison Murphy, President, Ventex, Inc.*

"Using Purchasing Power to Phase out Brominated Flame Retardants and PVC" addresses health concerns linked to BFRs (toxic flame retardants) and PVC, and steps hospitals can take towards purchasing products free of BFRs and PVC to protect health.

D6 Optimizing Infection Control While Transitioning to Greener Cleaning Chemicals & Equipment (90 Minutes)

*Cecilia DeLoach Lynn, MBA, HEM, Senior Manager, Sustainable Operations, Practice Greenhealth
Judene Bartley, MS, MPH, CIC, Vice President, Epidemiology Consulting Services, Inc.
Joan Heath, RN, BSN, CIC, Infection Control Manager, Seattle Children's Hospital
Mitch Birchfield, MBA, CHESP, Director of Environmental Services, Seattle Children's Hospital*

This session will examine risks to health from cleaning chemical/disinfectant use and healthcare-associated infections (HAIs) and highlight a framework for identifying effective cleaning protocols in combination with safer chemicals.

Speaker travel expenses generously underwritten by Activeion

D7 Healthcare at the Nexus of Healthy Food Systems and Primary Prevention (90 Minutes)

*Jill Stein, MD, Greater Boston Physicians for Social Responsibility
Jamie Harvie, PE, Executive Director, Institute for a Sustainable Future
Michelle Gottlieb, MEM, Consultant, Health Care Without Harm*

The role of healthcare in addressing growing chronic disease burden via the promotion of healthy, sustainable food systems and primary prevention strategies.

D8 Practical, Leading Edge Ecological Footprinting (90 Minutes)

*Christina Vernon Ayers, AIA, LEED AP, Director, Office for a Healthy Environment, Cleveland Clinic
John Leigh, Manager, Waste & Recycling Programs, Dartmouth-Hitchcock Medical Center
Joshua Miller, Sustainability Director, Spectrum Health*

"Learn about the emerging Eco-Health Footprint Toolkit, which will enable health care facilities to measure and improve their eco-health performance in greenhouse gases (including anesthetic gases); medical wastes; process and potable water; toxic chemicals, air pollutants and built land. The Toolkit's steering committee and early adopters will describe case studies and demonstrate innovations such as Dartmouth Hitchcock Medical Center's eco spreadsheet, and Practice Greenhealth's web-based Energy Impact Calculator, which measures energy-induced health incidents and treatment costs per unit of energy used."

D9 Chicago Healthcare: LEEDing the Way (90 Minutes)

*John Wilhelm, MD, MPH, Executive Director, Infant Welfare Society of Chicago
Albert Manshum, Vice President, Facilities and Construction, Advocate Health Care
David Cha, Manager, Principal Engineer, Northwestern Memorial Hospital
Joseph DeVoss, Assistant Vice President for Capital Transformation for the Rush University Medical Center Office of Transformation
Marta Gazda-Auskalnis, AIA, LEED AP, Principal, SMNG-A Architects*

This session will be a roundtable discussion directed by audience questions. Speakers represent Chicago healthcare institutions that either are pursuing or have achieved LEED certification. They will discuss their experiences, and project outcomes.

Wednesday, May 20, 2009

D10 A Breath of "Fresh" Air in Healthcare Facilities (90 Minutes)

*Anthony Bernheim, FAIA, LEED A.P., Principal, Sustainable Design Solutions, HDR Architecture, Inc.
Arash Guity, PE, LEED AP, MBA, Associate, Mechanical Engineer, Mazzetti Nash Lipsey Burch*

This session shares two perspectives: one on how healthcare building impacts indoor air quality, how indoor air quality impacts human health and how current innovative sustainable building practices improve occupant health in healthcare facilities. Four building principles for good indoor air quality will be presented (source control, ventilation design, building commissioning and building maintenance). The second perspective will focus on the latest research on displacement ventilation system using 2/3 of the air change in patient rooms and in public spaces. The research shows that low side wall displacement ventilation can provide equal to or better thermal comfort, better ventilation effectiveness and particle control compared to overhead supply design. Displacement ventilation can provide an initial cost saving, and a potential for up to 40% energy savings.

D11 Pharmaceutical Waste Compliance and Hospital Case Studies (90 Minutes)

*John Simpson, Vice President, Healthcare Hazardous Waste, Stericycle
Michael Burke, Director of Environmental Services - North Memorial Hospital, MN
Michael Fiore, Manager Environmental and Occupational Safety, Northwestern Memorial Hospital, IL
Charlotte Smith, President, PharmEcology Associates*

Learn the latest in EPA initiatives regarding pharmaceutical waste management, including mandatory surveys by the Office of Water and proposed Universal Waste Rules for pharmaceuticals.

12:30 - 1:30

Lunch & Awards – Charlotte Brody Award, Nurse Essay Contest Award and the Stephanie Davis Waste Reduction Scholarships

Stephanie Davis Waste Reduction Award and Scholarship

In honor of the memory of Stephanie Davis, a CleanMed attendee and waste reduction champion, CleanMed 2009 and the Davis family, friends and colleagues invite interested individuals to apply for the Stephanie Davis Waste Reduction Award and scholarship.

The Stephanie Davis Waste Reduction Fund will provide a \$750 travel and accommodation scholarship, a conference fee waiver and recognition at CleanMed 2009 to individuals interested in health care waste reduction who have initiated or undertaken waste reduction work with healthcare facilities.

1:30 p.m. - 2:30 p.m.

Concurrent Panels (E)

E1 Health System Sustainability: The Big Picture Perspective (60 Minutes)

*Kathy Gerwig, Vice President, Workplace Safety and Environmental Stewardship Officer, Kaiser Permanente
Jennifer Waddell, RN, Senior Director Clinical Solutions, Novation*

An approach for creating a vision, developing a framework and embedding sustainability into the core operations of a health care organization will be presented. This session will review the challenges health care organizations face in trying to provide safe, environmentally friendly patient care in a cost effective manner as well as provide insight on how to achieve all three objectives.

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E2 Reprocessing and Reuse of Disposable Plastic Items From Laboratories (60 Minutes)

*Jim Westhoff, President of LESS (Laboratory Environment Support Systems, Inc.)
Warren Ferber, Hematology Manager, The Methodist Hospitals, Gary, IN*

Most laboratory environmental sustainability initiatives have focused on mercury elimination, but what about the sheer volume of disposable materials in use? Learn about the potential to reprocesses disposable laboratory items to reduce waste volume and associated costs. A case study will share practical tips to implementing cost saving activities in the laboratory environment.

E3 The Emerging Sustainability Professional in Health Care (60 Minutes)

*Christina Vernon Ayers, AIA, LEED AP, Director, Office for a Healthy Environment, Cleveland Clinic
John Ebers, LEED AP, Sustainable Business Officer, Metro Hospital
Josh Miller, Sustainability Coordinator, Specturm Health
Hubert Murray, AIA, RIBA, Manager of Sustainable Initiatives, Partners Healthcare*

Facilities across the nation are recognizing the value of creating the position of a dedicated employee to lead and coordinate environmental improvement activities. Those that have made the commitment have realized the benefit of the role through numerous outcomes, including cost savings, culture of excellence, faster implementation pace, greater recognition within the industry, and demonstrated community engagement. Bring your questions to a panel of sustainability professionals and gather valuable talking points and resources to "make the case" to your leadership.

E4 Environmental Procurement - Moving the Market (60 Minutes)

*Robert Gotto, Masters in Engineering, Senior Director, Sourcing, Kaiser Permanente
Lara Sutherland, BS, Director of Environmental Purchasing Consulting, Practice Greenhealth*

Kaiser Permanent is driving down the price of environmentally preferable products and services while transforming the supply market. Find out how you can identify suppliers that share your environmental values and participate in this market shift.

E5 ANA Safer Chemicals Policies (60 Minutes)

Rebecca L. Clouse, RN, MS, American Nurses Association

The ANA is a firm advocate for actions that create safer chemicals policies, health and sustainable foods, and minimize impact on global climate change. The 2009 ANA advanced advocacy institute will specifically prepare nurses for these actions.

E6 Greener, Lower Carbon Hospitals Using Building Info Modeling (BIM) (60 Minutes)

*Scott Johnston, M.Arch, Professor of Architecture, Miami University
Bob Schilling, MA Architecture, BS Environmental Design, Senior Principal, Champlin Architecture
Krutarth Jain, MA Urban Planning, Project Manager/Planning, Champlin Architecture*

Building information modeling (BIM) creates a virtual model of a building. BIM can be used in sustainable design initiatives to effectively explore design alternatives to compute energy cost, carbon footprint, daylight and LEED Certification.

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E7 Innovation and Transformation of Green Building Materials Assessment (60 Minutes)

*Tom Lent, Policy Director, Healthy Building Network
Tyler Krehlik, AIA, LEED, Associate Principal, Anshen+Allen Architects*

Learn about building materials assessment protocols and how they are impacting design team decisions, including the Pharos Project, a unique approach to accelerating market transformation toward healthy and safe building products.

E8 Connecting Health Care Facilities to Nature: Healing Outside the Boxes (60 Minutes)

*Manisha Kaul, RLA, LEED AP, Associate, Andropogon Associates, Ltd.
Jacob Kain, AIA, Project Architect, Engberg Anderson Inc.*

Participants will learn the importance of sustainable design as it relates to therapeutic outdoor spaces, accessibility, and how an integrated approach to landscape design responds to and helps mitigate anticipated impacts of climate change. As well, the panel will present a case study of the installation of a Green Roof and Green Wall at Baptist Hospital East Outpatient Surgery Center and Patient Tower.

2:30 p.m. - 2:45 p.m. **Break**

2:45 p.m. - 3:45 p.m. **Concurrent Panels (F)**

F1 Sustainable Design Strategies in Healthcare: Linking Research to Designs (60 Minutes)

*Donna Deckard, RN, BSN, MHA, Consultant for The Center for Health Design
Carolyn Quist, BA, MA, Senior Project Manager, The Center for Health Design*

The health care sector impacts community and global health through excessive energy consumption and the widespread use of hazardous and toxic chemicals, raising concern that patients and staff could be harmed in the very environments that are meant to be healing and therapeutic. The Center for Health Design (CHD) is developing an integrated database called RIPPLE that will compile data from multiple hospitals in environmental safety and sustainability, patient safety, workplace safety, and the impact of sustainable design strategies on outcomes in health care facilities. CHD will develop a framework linking sustainable healthcare design strategies with patient, staff and performance related outcomes and associated metrics.

F2 Letting the Data Drive the Mission - Measuring and Monitoring Hospital Material and Waste Streams (60 Minutes)

*Mary Larsen, MS, Vice President, Business Development, Practice Greenhealth
John Leigh, Waste and Recycling Coordinator, Dartmouth Hitchcock Medical Center*

Learn the value of gathering baseline material and waste stream data for your organization as the foundation for commencing an annual environmental improvement goal-setting program, comparing it to national benchmarks, external reporting to community and governmental agencies, and in the Practice Greenhealth Environmental Excellence Award process. Hear a case study from Dartmouth Hitchcock Medical Center, including an overview of their established waste data tracking program. This session will provide an overview of how to commence data gathering, use it to create tactics and strategies for waste reduction, as well as inspire and support your organizations' environmental goals.

Wednesday, May 20, 2009

F3 **Securing Corporate Level Buy-in (60 Minutes)**

*Aura Rose, B.Comm, IABC, President, Healthwise Communications Inc.
Jennifer Stout, Market Manager, BetterBricks (commercial initiative of the non-profit Northwest Energy Efficiency Alliance)*

How, when & why to engage your senior leaders in environmental responsibility. Understanding and presenting the WIFM (what's in it for them) to incorporate "greening" in every decision they make, using Appreciative Inquiry in this process.

F4 **Greening Medical Equipment (60 Minutes)**

*Walt Vernon, BE, BS, MBA, JD, PE, LEED AP, Principal, Mazzetti Nash Lipsey Burch
JD Thompson, BS, Director of Medical Technology, Mazzetti Nash Lipsey Burch
Rachael Baker, MS, LEED AP, Environmental Supply Chain Manager, Procurement & Supply, Kaiser Permanente*

This session will focus on energy consumption of medical equipment, describe new practices, look at most commonly specified medical equipment, survey emerging research, and demonstrate power consumption characteristics of commonly used equipment.

F5 **TLC - An Integrated Approach to Energy Management for Healthcare (60 Minutes)**

Ed Rubinstein, BSc, MSc, CEM, Manager, Energy & Environment

The process, results and lessons from the University Health Network's unique energy management program will be reviewed, including elements such as retro-commissioning, operator training, employee engagement and staff awareness using social marketing.

F6 **Triple Bottom Line at Brigham & Women's Hospital (60 Minutes)**

*John McCarthy, Sc.D., C.I.H., President, Environmental Health & Engineering, Inc.
Arthur Mombourquette, Vice President, Support Services, Brigham and Women's Hospital*

The 440,000 square foot Brigham and Women's Hospital (BWH) Shapiro Cardiovascular Center is an early adopter of LEED in healthcare. This presentation will explore how BWH used integrated design to meet its triple bottom line design objectives.

F7 **21st Century Sustainable Medicine and Energy (60 Minutes)**

*Joel Kreisberg, DC, MA, Executive Director, Teleosis Institute
Paul Lipke, Senior Advisor, Energy and Buildings for Health Care Without Harm and Practice Greenhealth*

The future of health care will belong to medical practices and organizations committed to efficiency, conservation and sustainable operations. They'll use evidence that includes but reaches well beyond immediate patient outcomes and costs. How might we make policy, purchasing and treatment decisions that factor in not only the use of high tech medical technology in our high performance buildings, but also the associated environmental health impacts? Learn about the Healthcare Energy Impact Calculator, and how it can inform such decisions. Begin to develop and enhance a vibrant clinical learning community to prepare for this future with integrity and mutuality.

3:45 p.m. - 4:00 p.m. **Break**

4:00 p.m.- 4:30 p.m. **Closing Remarks and Adjourn**

Thursday, May 21, 2009

8:00 a.m. - 3:00 p.m.

Implementing Sustainability in Healthcare Facilities, presented by Practice Greenhealth and sponsored by Johnson & Johnson

Cost: \$300.00 (Includes breakfast, lunch and snack reception)

How can you make an environmental sustainability 'real' in your facility? Here is an opportunity to interact and learn from people who have experience in hospitals all over the country. Based on Practice Greenhealth's popular Sustainability Coordinator training course, this workshop focuses on the practical aspects of 'greening' healthcare through presentation, case studies, exercise, discussion and networking.