

April 6-8, 2011

Sheraton Phoenix Downtown Hotel  
Phoenix, Arizona

## PRE-CONFERENCE EVENTS

### Tuesday, April 5

12:00 p.m. - 5:00 p.m. **Infrastructure & Process for Sustainability in Healthcare Workshop**

Responsible for leading your hospital's sustainability efforts? Don't know where to begin? This training is designed to help participants build a sustainability program from the ground up. Come and learn how to engage your executive team, how to develop a sustainability baseline and how to compare industry benchmarks to zero in on areas of opportunity. Learn how to build a functional team to tackle sustainability goals and how to measure and get recognition for your sustainability successes. This training will deliver a palette of tools designed to help the beginners or strengthen and refresh the leaders. Practice Greenhealth has been working with hospitals to develop customized sustainability programs for more than a decade – come and learn from our experience. This workshop includes a working lunch.

Co-sponsored by *Johnson & Johnson*

1:00 p.m. - 5:00 p.m. **LEED® 2009 for Healthcare Workshop**

With more than 150 LEED certified health care facilities, the U.S. Green Building Council's (USGBC) LEED® rating system is the nationally accepted benchmark for the design, construction and operation of high performance green buildings. This is a first-ever, unique opportunity for an in person, in-depth exploration of the LEED® for Healthcare since its approval in November, 2010. This 4-hour workshop will focus on the unique challenges of implementing LEED® in a healthcare setting as well as comparisons between this new healthcare rating system and the current LEED tools. Case studies of best-practices from certified healthcare projects as well as successful strategies to achieve credit intent will be highlighted.

This workshop is sponsored by the USGBC and the Green Guide for Health Care in partnership with Practice Greenhealth and CleanMed. Faculty include LEED for Healthcare Committee Chair Steve Guttman, PE and former USGBC Board Chair Gail Vittori, who will be joined by other content experts to make this workshop an unparalleled opportunity.

12:30 p.m. - 4:00 p.m. **Tour of Ascent Reprocessing Facility**

With sunny Phoenix as the host city for CleanMed 2011, attendees are presented with a great opportunity to go "off-site" and tour one of Ascent's nearby manufacturing facilities. During the tour, attendees will experience SUD reprocessing first-hand, including witnessing Ascent's cutting edge technology at work in the pre-cleaning, sterilization, function-testing, and packaging processes. They will also hear about the myriad ways Ascent can support their hospital partners' sustainability initiatives - not only through reprocessing, but also by helping hospital green teams achieve their environmental goals across all hospital departments.

Sponsored by  Novation Novista



## PRE-CONFERENCE EVENTS

5:30 p.m. - 6:30 p.m. **Free Solar Tour & Reception – Tour of Phoenix VA Medical Center**

The Phoenix VA Medical Center and SunWize Technologies, a leading provider of solar power solutions for hospitals, will host a complimentary tour of the largest solar carport installation in the US. Since starting the project in 2010, Phoenix expanded the installation to 4.45 MW, which will ultimately produce 27,000 MW of electricity annually.

Complimentary snacks and light refreshments will be provided. Transportation is provided.

If you are interested in participating in this free tour, please contact Peter Diamond at 617.524.6018 for more information.



Sponsored by **SunWize**  
Solar Electric Solutions for Hospitals

### Wednesday, April 6

8:30 a.m. - 5:30 p.m. **Registration**


8:00 a.m. - 1:00 p.m. **Research Collaborative Meeting**

9:00 a.m. - 1:00 p.m. **The Hospital of the Future Workshop**

If we were to imagine high-performance healthcare design, informed by sustainable design and a quest for carbon-neutral, zero-waste, water-balanced, toxic-free buildings, what would the hospital of the future look like? What principles would guide its development? What forms would be generated? What technologies would be employed? How would 21st century notions of quality, safety, staff efficiency, comfort and resilience be reconciled in a bio-regionally based, climate-responsive built environment? This half-day workshop program features three innovative presentations, linked together by interactive dialogue and strategic questioning. Presentations will include the University of Washington groundbreaking research on low-energy hospitals for six US cities: "Targeting 100;" a case study by Peace Island Medical Center designers Mahlum Architects on their journey to design the first US "living building" hospital; and a research study by Stantec Architecture and Cambridge University on "Living Breathing Hospitals" that minimize energy consumption while providing abundant daylight and natural ventilation. This half-day workshop will be moderated by Robin Guenther FAIA, of Perkins + Will and Kevin Hydes, PE, of Integral Engineering. This workshop includes a working lunch.

**Heather Burpee**, University of Washington; **Erik Goodfriend**, Mahlum Architects; **Ray Pradinuk**, Stantec

## MAIN CONFERENCE

- 9:00 a.m. - 1:00 p.m. **Strategies for Greening the Operating Room Workshop**
- The operating room (OR) is the epicenter of the hospital environment. The OR is a major source of revenue for the hospital but is also responsible for a huge percentage of supply costs and can generate nearly one quarter of the organization's waste. When considering prioritization for sustainability efforts, the OR is a natural target and offers a myriad of opportunities for waste reduction, increased efficiencies and cost-savings. Come and learn how Practice Greenhealth's Greening the Operating Room Initiative™ is working with leading hospitals to delineate a set of best environmental practices in the OR and how your hospital can get started. This workshop includes a working lunch.
- Cecilia DeLoach Lynn**, Practice Greenhealth; **Dr. Rafael Andrade, Crystal Saric & Lynn Thelen**, Fairview Hospital; **Josh Miller & Gail Greco-Bieri**, Spectrum Health; **Barry Cunningham**, Owens & Minor; **John Palmer**, Cardinal Health; **Jon McGuire**, SRI Surgical; **Jayne Byrd**, Rex Healthcare; **Jean Hansen**, HDR Architecture, Inc.; **Dr. Noe Woods**, Magee Womens Hospital of UPMC; **Gerald Woodard**, SRI Surgical
- 9:00 a.m. - 1:00 p.m. **Tour of Ascent Reprocessing Facility**
- With sunny Phoenix as the host city for CleanMed 2011, attendees are presented with a great opportunity to go "off-site" and tour one of Ascent's nearby manufacturing facilities. During the tour, attendees will experience SUD reprocessing first-hand, including witnessing Ascent's cutting edge technology at work in the pre-cleaning, sterilization, function-testing, and packaging processes. They will also hear about the myriad ways Ascent can support their hospital partners' sustainability initiatives - not only through reprocessing, but also by helping hospital green teams achieve their environmental goals across all hospital departments.
- Sponsored by  Novation PROGRESS
- 1:30 p.m. - 1:45 p.m. **Convene and Introductory Remarks**
- Gary Cohen, President and Co-Founder, Health Care Without Harm
- 1:45 p.m. - 2:00 p.m. **Welcome Remarks**
- The Honorable Phil Gordon, Mayor, City of Phoenix
- 2:00 p.m. - 2:15 p.m. **Welcome Remarks**
- Marci Kaminsky, Vice President, Communications & Public Affairs, Stryker Corporation
- 2:15 p.m. - 3:15 p.m. **Plenary Panel**
- Sustainability Perspectives - A Conversation with Health Care Leaders**
- Susan Vickers, Chairwoman of the Practice Greenhealth Board of Directors and Vice President of Community Health for Catholic Healthcare West will lead a discussion with a group of health care sustainability leaders that captures the team approach critical for success. The discussion will explore the varying roles, their interconnectivity and the need for both vision and pragmatic approaches to continuously improve upon environmental practices.
- Jeff Thompson**, Gundersen Lutheran; **Christina Vernon**, Cleveland Clinic; **Richard Beam**, Providence Health & Services; **Brad Perkins**, Vanguard Health Systems



## MAIN CONFERENCE

3:30 p.m. - 5:00 p.m. **Concurrent Panels (A)**

### A1 Reprocessing and Healthcare Sustainability

SUD reprocessing has pioneered initiatives to allow for more thorough benchmarking, tracking, and realization of environmental results and potentials. This presentation will enable participants to understand current performance standards (savings and waste reduction), relevant benchmarks, and ultimate potential of reprocessing, - as well as suggesting specific pathways to realize full potential from reprocessing.

**Dan Vukelich**, Association of Medical Device Reprocessors; **Lars Thording**, Ascent, A Stryker Sustainability Solution; **Jose Cardenas**, American Nurses Association

### A2 What's Hot with Regulating Pharmaceutical Waste?

As healthcare systems begin embracing the concept of managing pharmaceutical waste in an environmentally responsible manner, staying abreast of new and proposed regulatory changes is now a management requirement. This session will explore potential new regulations from DEA, best management practices and Universal Waste rules from EPA, ideas from CMS for long-term care. Managers will need to update their knowledge about new regulations and potential legislation. This session will also discuss how to educate allied health professionals about pharmaceutical waste and provide an up-to-the minute summary of needed information for the professional and the consumer.

**Charlotte Smith**, PharmEcology; **Jerry Cecelic**, HCA Healthcare

### A3 The Business Case for the Healthier Hospitals Initiative

The Healthier Hospitals Initiative was developed by a group of health systems that are leading the way on sustainability, on the principle that hospitals have a responsibility to minimize the adverse environmental impacts of their operations on patients, staff and the natural environment and create a new framework for safer health care delivery. The Initiative's goals include corporate culture change to support sustainability, reducing energy health impacts, reducing waste, and greening the supply chain. This session will include case studies of leadership and culture change; description of a study of cost savings resulting from sustainability interventions; parallels with other health quality campaigns; and how one system has achieved significant cost savings due to reducing energy use.

**Tonya Boone**, The Mason School of Business at the College of William and Mary; **Susan Kaplan**, University of Illinois; **Blair Sadler**, Institute for Healthcare Improvement; **John Messervy**, Partners HealthCare

### A4 The Business Case for Hiring a Sustainability Director

Across the healthcare sector, more and more hospitals are committing to develop substantive sustainability programs and recognizing the need for an individual with a certain set of competencies to manage, build, implement and measure the effectiveness of those programs. This often requires approaching administration to ask for a new position. This session will zero in on the business case for hiring a sustainability director as well as the qualifications necessary to succeed at this role in the healthcare sector. Hear from hospitals that have created this position, listen to feedback from people who have taken on this role and learn how and why your hospital or health system should hire a sustainability director.

**Cecilia DeLoach Lynn**, Practice Greenhealth; **Denise B. Choiniere**, University of Maryland Medical Center, **Albert Manshum**, Advocate Health



## MAIN CONFERENCE

### A5 Case Studies in Climate Change Mitigation

Many healthcare organizations are beginning to recognize the importance in understanding and addressing their contribution to climate change. This presentation will discuss the process of performing a greenhouse gas inventory and developing a climate action plan. It will cover the essential components of a successful strategy and the key steps in effectively implementing the plan. This presentation is intended to describe what the UW and its associated operations (including UW Medical Center) hope to accomplish in the next 20 years and beyond to control the UW's input to the atmosphere, to inform and prepare succeeding generations to make personal and community changes that reduce our carbon footprint. Our efforts are a response to the climate challenge set by the American College and University's Presidents Climate Commitment (ACUPCC). More than 100 students, faculty, and administrators collaborated in work teams to unleash their imaginations, observations and understandings to chart a path forward to achieve climate neutrality.

**Arash Guity**, *Mazzetti Nash Lipsey Burch*; **Jeff Thompson**, *Gundersen Lutheran*; **Joel Loveland**, *University of Washington*

### A6 Case Studies in Green Building: Lemmen-Holton Cancer Center and Phoenix Childrens Hospital

Explore how one of the nation's largest LEED Gold certified healthcare facilities went "beyond the points" to holistically create an exceptional sustainable environment. Designing a healthcare facility to achieve LEED certification presents many unique challenges. The 284,000 sq. ft. Lemmen-Holton Cancer Pavilion was recently awarded LEED Gold certification. It is the state of Michigan's first LEED Gold certified facility and to date one of the nation's largest LEED Gold facilities. In 2007, Phoenix Children's Hospital (PCH) envisioned a sustainably significant transformation. The vision evolved into a 750,000 sq. ft. expansion that not only doubled the size of their campus but also altered the eastern horizon of the city of Phoenix. The newly expanded facility and associated energy plant vastly improved PCH's impact on the Phoenix metropolitan area through innovative green and energy initiatives. At the same time, it positively impacted energy and infection control operations at the hospital.

**Fred Gore**, *URS Corporation*; **Richard Funnell**, *Spectrum Health Lemmen-Holton Cancer Pavilion*; **Dave Cottle**, *Phoenix Children's Hospital*; **Richard Rome**, *CCRD Engineers*

### A7 Is it Really "Green?" Understanding Environmental Claims

Environmental marketing claims have exploded onto consumer and institutional products, and many of these claims are confusing, vague, and offer no proof. This session is for purchasers, suppliers and others who want to know when and if a product is truly "green," and to learn how to avoid "greenwashing."

**Gerry Varella**, *North Shore Long Island Jewish Health System*; **Brooks Beard**, *Morrison & Foerster*; **Kim Sheehan**, *University of Oregon*

## MAIN CONFERENCE

### A8 Longterm Care Facilities - Promoting Healthy Food and Healthy Aging

The recent scientific report Environmental Threats to Healthy Aging describes how environmental chemicals, the modern diet, the sedentary-built environment and other modifiable environmental factors throughout the lifespan are key drivers in the chronic disease epidemics of modern society. The presentation will explain how these factors interact with the biology of inflammation, oxidative stress, and insulin signaling to promote diseases of the aging such as Alzheimer's and Parkinson's diseases, as well as the "Western Disease Cluster" including obesity, diabetes and cardiovascular disease, which are themselves risk factors for neurodegeneration. This session will explore the emerging scientific evidence around the links between public health and the industrialized food system, and models of innovation around sustainable food service, and healthy and sustainable practices more generally, from two long term care facilities.

**Ted Schettler**, Science and Environmental Health Network; **Karen Arnold**, San Francisco VA Hospital, **Michelle Gottlieb**, Health Care Without Harm; **Nancy Mulvihill**, Covenant Health Systems

5:00 p.m. - 7:00 p.m. **Opening Reception in Exhibit Hall**

7:00 p.m. - 9:00 p.m. **Practice Greenhealth Environmental Excellence Awards Presentation**

*Sponsored by Johnson & Johnson*

## Thursday, April 7

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

7:30 a.m. - 8:45 a.m. **Continental Breakfast in Exhibit Hall**

9:00 a.m. - 10:15 a.m. **Introduction to Day, Conference Announcements & Welcome Remarks**

Gary Cohen, Founder and Co-Executive Director, Health Care Without Harm

Scot Horst, Senior Vice President for LEED, U.S. Green Building Council

Steve Owens, Assistant Administrator, Office of Chemical Safety and Pollution Prevention, EPA

### **Environmental Health Hero Award**

Dr. Ted Schettler

10:30 a.m. - 11:30 a.m. **Concurrent Panels (B)**

### B1 Financial Opportunities in a Sustainability Program

A comprehensive Sustainability Program for a large healthcare system offers many opportunities for cost savings. Some alternative programs have immediate savings, some require capital expenditures with various pay-back periods and some are not undertaken for cost savings purposes. This session will examine the budget and cost opportunities and implications of many sustainability efforts, including capital projects, energy purchasing and generation, waste minimization and recycling, purchasing opportunities and staff educational efforts. The panelists will discuss the issues of allocation of costs and savings on a health system's budget and on the budgeting process.

**Maurice LaBonne**, North Shore – Long Island Jewish Health System



## MAIN CONFERENCE

### B2 Health Care in the Commons: Doing More With Less

Minimizing adverse environmental public health impacts of our activities and maximizing sustainability are laudable goals but often poorly defined and may not even address the problems we are really trying to solve. In this panel discussion, we will explore opportunities and challenges for individuals in diverse positions within the health care sector to make decisions and intervene in ways that address our health as an issue related to the commons. We will stress strategies that solve multiple problems without creating new ones and assert that this must be attempted at all levels....from local, individual decisions to the entire health care system. We will discuss these ideas through examples from the built environment, health care delivery, disease prevention, and the food environment.

**Ted Schettler**, *Science and Environmental Health Network*; **Robin Guenther**, *Perkins & Will*; **Jamie Harvie**, *Institute for a Sustainable Future*

### B3 Waste Wisdom – A “How to” for Tracking Materials and Wastes

The days of paying the waste bill and having it taken “away” are behind us. Hospitals generate an astonishing average of 28 pounds of total waste per staffed bed per day. Learn how to develop an ongoing methodology to track Regulated Medical Waste, Nonregulated Medical Waste, hazardous materials and diverted materials through reuse, prevention, donation, composting and more. Learn best management benchmarks for the various categories of health care related materials and wastes. Practice Greenhealth Environmental Leadership Award winning facility, St. Patrick Hospital (Providence Health & Services) in Missoula, Montana will provide a case study, demonstrating the value of waste and material tracking and its critical role for any hospital, regardless of size or location. If your facility is not regularly tracking and reporting this information, this is a must-attend event.

**Beth Schenk**, *St. Patrick Hospital*; **Mary Larsen**, *Advocate Health*

### B4 Addressing Toxic Materials in Buildings: LEED-HC & beyond

For years, the LEED green building program has trailed far behind other sector efforts to identify and eliminate chemicals of concern and select safer alternatives. While the health care industry was getting phthalates out blood bags and the electronics industry was eliminating halogenated flame retardants and toxic metals, the US Green Building Council hosted a 10 year debate with the vinyl industry. The building industry is, however, finally catching on and catching up. New awareness of the proliferation of phthalates, halogenated flame retardants, bisphenol A and other toxic chemicals in insulation, carpets, vinyl flooring, epoxies and elsewhere, and new science on their affects on occupant health has finally driven new toxic chemical avoidance credits into the LEED program. But you have to look beyond LEED for Healthcare to find these credits. Find out how you can get these chemicals out of your building projects, protect your staff and patients and gain credit for it.

**Tom Lent**, *Healthy Building Network*; **Mark Rossi**, *Clean Production Action*

## MAIN CONFERENCE

### B5 A Morning at the Energy Modeling Improv – featuring the Wizard of Schematic Design

Welcome to a lively and interactive demonstration in the use of energy modeling software and how it can be used by design teams to inform and influence early design decisions. The presenters divide the audience into competitive teams and engage them as participants in the early design process, demonstrating how the eQuest “Schematic Design Wizard” can assist them in making informed design decisions that can lay the foundation for truly low energy intensity healthcare buildings – hospitals, long-term care, clinics and outpatient centers.

**Kim Shinn**, TLC Engineering for Architecture, **Roy Gunsolus**, HKS Architects

### B6 EPP: Hospitals Taking Action

Creating a sustainability program needs to go beyond having a green building, it needs to permeate into the way we operate our facilities. One of the most important considerations is how the decisions that are made during the purchasing process can have long standing impacts on the health of patients, employees and the community. By choosing to bring materials into a facility that are created using less toxins, that do not emit volatile organic compounds, that use less energy and create less waste, hospitals can truly create healing environments and support healthy communities. This presentation will highlight the steps that were taken at two health systems to develop and sustain a strong environmentally preferable purchasing program. Hear several successful case studies on how buying “green” doesn’t necessarily cost “green.”

**Robert Gotto**, Kaiser Permanente; **Peggy Styer**, Catholic Healthcare West

### B7 Creating Sustainable Surgery: A Trashy Operation

Today’s operating room is a bastion of medical waste, intense energy use and complex electronic equipment. As our surgical incisions get smaller, the amount of disposable equipment escalates. We will present two tools for reducing the environmental footprint of the OR and then work as a group towards designing our fantasy operating room. The first tool will evaluate the success we had introducing a “Green Surgeon’s Preference Card” at Magee-Womens Hospital. This quality improvement project provided circulating scrub nurses with a scaled down materials list including what NOT to pull for the surgery. The second project was an environmental life cycle analysis (LCA) of a vaginal delivery vs. a cesarean section at our hospital. Engineers and ObGyn’s at the University of Pittsburgh teamed up to calculate the environmental impact of delivering a baby in the operating room. We will then collectively develop a fantasy blueprint for the future of a sustainable operating room.

**Dr Noe Woods**, University of Pittsburgh School of Medicine, Magee-Womens Hospital of UPMC; **Laura Goodman**, University of Pittsburgh School of Medicine; **Cassandra Thiel**, University of Pittsburgh

### B8 Global Responsibilities on Healthcare Sustainability

The World Health Organization recently published a document titled Healthy Hospitals, Healthy Planet, Healthy People. It includes a prescription for making a hospital a place that promotes the health of the various communities it serves, from its patients and staff to its local community to the larger global community. The way in which societies across the globe view environmental sustainability greatly varies. Climate change is a global imperative that is being addressed by healthcare leaders. This presentation will highlight how the healthcare industries across three superpower nations, the United States, India and China are working to meet the challenges of creating healthy hospitals.

**Seema Wadhwa**, Inova Health System/Urban Ltd.; **Walter Vernon**, Mazzetti Nash Lipsey Burch

## MAIN CONFERENCE

11:45 a.m. - 12:30 p.m. **Lunch**

12:30 p.m. - 1:15 p.m. **Keynote**

Lloyd Dean, CEO, Catholic Healthcare West

1:30 p.m. - 3:00 p.m. **Concurrent Panels (C)**

### **C1 From the Hospital Room to the Halls of Congress: Health Care's Role in Driving toward Safer Materials and Products**

What role should health care play in making the larger economy and our communities healthier and safer? In a talk-show style format, this interactive session will explore the safety of materials, including medical equipment, cleaning supplies, building materials, and furnishings, and the chemicals in them. It will ask the panelists the following questions: What role does primary disease prevention play in decisions about the use of certain materials and chemicals in your facilities? Does your system make the connection between toxic chemical exposure and diseases presented at your facility? How do you evaluate the toxicity of a product before you purchase it? What information are you missing in your attempt to purchase less toxic products? What motivates your health care organization to change its purchasing to prefer less toxic materials? Why advocate for changes in the regulation of chemicals used in health care? Audience members will be asked to share their organization's vision for creating a healthy care and work environment and experiences in attempting to purchase safer materials and to engage in chemicals policy work—either internally or externally—providing a forum for individuals to discuss the barriers they face and the support they need to overcome them, and providing models for change.

**Gina Pugliese**, Premier Healthcare Alliance; **Kathy Gerwig**, Kaiser Permanente; **Susan Vickers**, Catholic Healthcare West; **Jennifer Waddell**, Novation

### **C2 Marketing Sustainability**

This session is to help hospital CEOs and communications officers understand how they can leverage their sustainability achievements within their communities to increase recognition and instill goodwill, recruit and retain staff. Each speaker's portion of the session would last for 20 minutes, and at the end of each period attendees will have five to ten minutes to write down ideas for their own hospital based on the presentation that was just made. Speakers would contribute to the development of the worksheet.

**Janelle Roghair**, Gundersen Lutheran; **Susannah Patton**, Kaiser Permanente; **Beth Bengtson**, Sdialogue LLC

### **C3 Keeping it Simple: New Tools to Support Greening the Supply Chain and Supplier Engagement**

Greening the supply chain may be getting a bit easier as a growing base of resources and tools continue to expand each year. Find out about more new tools, such as where to find environmental specifications for medical products, how to justify the purchase of environmentally preferable products, and how to help evaluate the purchase of environmental products in the RFP process and help move the market.

**Brian Weldy**, Hospital Corporation of America; **Rachael Baker**, Kaiser Permanente; **Gerald Woodard**, SRI Surgical; **Beth Eckl**, Practice Greenhealth

## MAIN CONFERENCE

### C4 Using a Lean Approach to Advance Sustainability in Healthcare

Healthcare professionals must tackle many challenges when it comes to advancing sustainable practices, beginning with the need to articulate the value that sustainability delivers to their patients and their institutions. Lean focuses on delivering value to an institution's stakeholders by reducing obstacles in the system. In healthcare, Lean thinking is increasingly being applied to improve the flow of patient care. However, Lean is not yet widely applied to sustainability challenges in healthcare. In this interactive workshop, participants will work collaboratively on their specific challenges in advancing sustainability within their organization.

**Lisa Turturro**, *Haley & Aldrich, Inc.*; **Benjamin Chandler**, *Haley & Aldrich, Inc.*; **Tim Jones**, *MetroWest Medical Center/Leonard Morse Hospital*

### C5 Food Supply Chain Transformation - Lessons from the Field

Over three hundred hospitals around the country have signed the healthy Food in Health Care Pledge, committing their facilities to a variety of practices that will result in improving food environments for their patients, staff and the community at large. Preferentially purchasing sustainably-produced food - including local - is a key strategy to meeting the goals of the Pledge. How do hospitals begin to shift their food purchasing practices toward sustainable options? How do they best navigate the complex terrain of food labels, sustainability claims, distributor contracts, etc? This session will present three case studies of how large hospitals are tackling these complex and challenging questions.

**Kathleen Reed**, *Kaiser Permanente*; **Dan Henroid**, *UCSF Medical Center*; **Pat Burdullis**, *Catholic Healthcare West*

### C6 Metrics Matter: From the Global Reporting Initiative to Daily Management

Companies are enriching their non-financial metrics suite to include progressive global standards like the Global Reporting Initiative (GRI) as well local metrics like waste tracking. Following the mantra "what gets measured, gets done," Cleveland Clinic developed several ways of measuring, monitoring, and communicating using both quantitative and qualitative metrics that resonate with leadership. Learn what's worked and what hasn't, as well as the ways the metrics are used for internal and external audiences, such as executive dashboarding and the UN Global Compact reporting framework.

The Global Reporting Initiative is the gold standard for corporate transparency around triple bottom line non-financial metrics. Mike Wallace, Director, will bring learners up to speed on this important suite of metrics, and how they can be tools for successful leadership and clear communication.

**Christina Vernon**, *Cleveland Clinic*; **Mike Wallace**, *Global Reporting Initiative*



## MAIN CONFERENCE

### C7 Best practices in Strategic Energy Master Planning: Partner's Healthcare SEMP and Advocate's Efficiency competition/checklist

Hear the lessons learned managing Partners HealthCare's SEMP process to reduce energy consumption 25% by 2015. The SEMP includes facility benchmarking, energy conservation projects, Combined Heat and Power projects, renewable energy, and strategies to stay ahead of climate regulation. Many of the SEMP initiatives undertaken by Partners are transferable to other hospitals. Then Advocate Health Care will share their equipment optimization strategy, which embeds into their culture intra and inter-facility competition, using an insightful Operations and Maintenance Checklist, which has already delivered a 5% energy reduction.

**Robert Cox**, Jacobs Global Buildings; **John Messervy**, Partners HealthCare; **York Chan**, Advocate Health; **Albert Manshum**, Advocate Health

### C8 Test Driving the Green Guide v2.2 Operations Section Credits

Enter the v2.2 Operations Pilot portal for an hour of lively interaction with members of the OpsPilotTeam and a sampling of Pilot participants! This one-year initiative, jointly launched by the Green Guide and Practice Greenhealth, is a groundbreaking effort for the healthcare sector to measure and gauge the implementation of the v2.2 Green Guide Operations Section. The toolkit spans a comprehensive array of credits including energy and water performance, food, environmentally preferable purchasing, facility operations and maintenance, chemical management, environmental services, and waste reduction. What constitutes an effective pilot program? How are the Pilots measuring their performance? What have we and the Pilots learned so far? Find out more about the 70+ participating Pilot facilities. As toolkit users share specific examples of their journey, allow yourself to be an integral part of this peer-to-peer learning community.

**Kumkum M. Dilwali**, Green Guide for Health Care; **Lorissa MacAllister**, Enviah, Inc.; **Krisanne Hanson**, Stanford University Medical Center; **Robert Airo**, University of Arkansas Medical Sciences; **Jessica Heiss**, The Ottawa Hospital

3:00 p.m. - 5:00 p.m.

**Exhibits**

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

**Practice Greenhealth Member Reception and Networking Event**

7:00 p.m. - 9:00 p.m.

**Practice Greenhealth Dinner Gala  
Environmental Leadership Circle Presentation**

9:00 p.m. -

**Practice Greenhealth Hospitality Event in Hotel**

**Friday, April 8**

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

**Registration**

7:30 a.m. - 8:00 a.m.

**Continental Breakfast**



## MAIN CONFERENCE

8:15 a.m. - 9:45 a.m. **Concurrent Panels (D)**

### D1 **EPP: Hot Topics**

Come hear about several “hot” topics in environmental purchasing and how can they be addressed through the supply chain process. Speakers will discuss new initiatives in greening electronics, environmentally preferable food service ware, and the latest on chemically safe alternatives to Bisphenol A (BPA). Hear effective supply chain solutions to reduce environmental harm.

**Mark Rossi**, *Clean Production Action*; **Sue Chiang**, *Center for Environmental Health*; **Brenda Platt**, *Institute for Local Self-Reliance*

### D2 **Incorporating Sustainable Design in Existing Buildings, Renovations and Across Systems**

How can LEED become a blueprint for successful integration of sustainability principles into the existing and renovated healthcare physical environment? With 24 LEED registered renovation and new construction projects, North Shore Long Island Jewish Medical Center has learned how to adapt plans and designs to the rating system and to evaluate those elements in specific contexts. Drawing from a range of projects across the system, this session will examine how to use LEED tools as a blueprint for success in transforming aging healthcare facilities into environmentally-responsive role models for the community.

**Neil Rosen**, *North Shore-Long Island Jewish Health System, TBD*

### D3 **Defining the Cost of Green Hospitals**

Healthcare administrators are challenged to integrate sustainability into investment and operating decisions. The Sustainable Return on Investment (SROI) analysis accounts for full economic, social and environmental impacts of projects, helping to optimize design while reducing negative ecological impacts. Costs are typically financial expenditures, while benefits may be largely non-financial and thus ignored in traditional financial analyses. Yet many benefits (energy saved, water conserved, improved safety or efficiency) can be converted into monetary terms and compared with financial impacts. This session will demonstrate how SROI has helped Ft. Belvoir Community Hospital, Fort Bliss Replacement Hospital and Johns Hopkins University make sustainable building decisions based on an expanded knowledge of the full impact of their choices.

**Stephane Larocque**, *HDR Architecture, Inc.*; **Lidia Berger**, *HDR Architecture, Inc.*; **Russell Manning**, *Tricare Management Activity, Military Health System*

### D4 **Alternative Energy in Health Care Financing**

The complexity of the energy market is beyond substantial. The ability of any single individual in a hospital setting to deal with all the myriad issues is simply daunting. One of the most crucial considerations in any conversation re: alternative sources of energy is of course finance. Options are numerous but not all options are optimal—or for that matter even acceptable. Such a session could sort through some of those options and give facility managers and related others a more comprehensive and understandable perspective of how one might proceed.

**Brian Weldy**, *Hospital Corporation of America*, **Andrew Pines**, *Healthcare Finance Group, Citigroup*; **John Gimigliano**, *Sustainability Tax Practice, KPMG*



## MAIN CONFERENCE

### D5 Employee Engagement – Building a Culture of Sustainability

Kaiser Permanente, Huron Hospital, a Cleveland Clinic hospital, and Baptist Health South Florida will share their employee engagement strategies around sustainability. Case studies will include what has and has not worked and how to engage staff both at work and home. Learn how to better pace environmental strategies, engage staff, create a culture of environmental excellence, and ensure long-term success from three Practice Greenhealth award winning organizations.

**Eric Wenke**, Baptist Health South Florida; **Joe Bialowitz**, Kaiser Permanente; **Michael O'Connell**, Huron Hospital, a Cleveland Clinic hospital

### D6 Making the Business Case for Waste Reduction and Recycling Initiatives

Hospitals face growing operational challenges as they balance the delivery of excellent health care services with a changing economy and tightened regulatory environment. Increasing costs, regulatory scrutiny and evolving management requirements drives the need for higher level monitoring and technical expertise. RRS and Henry Ford Hospital have worked to meet these challenges by developing sustainability goals and initiatives through green team leadership. RRS will present tools to rank sustainability initiatives such as program visibility, volume reduction, ease of implementation, regulatory compliance, and cost savings. RRS will present goal-setting and initiative rankings used at Henry Ford Hospital, focusing on business case models (financial, health and environmental), evaluating return-on-investment of new services and equipment, and calculation of cost-benefits of improved systems over a five year forecast. Results will be presented in a “dashboard” and “scorecard” report.

**Nicole Chardoul**, Resource Recycling Systems; **Cathy Semer**, Henry Ford Hospital

### D7 Clinician's Role in Environmental Health Counseling

This presentation will discuss the current general medical practice of obtaining a social history and expand this into the concept of obtaining more information for a complete environmental exposure history. Examples of available environmental screening forms will be reviewed, including participant discussion regarding strengths and weakness of each approach. Expanding the social history typically relevant in the specialty of Physical Medicine and Rehabilitation will be used as an example. Small group work and discussion will include brainstorming regarding expanding social history into exposure history for the clinical practice of participants.

**Jennifer Zumsteg**, Department of Rehabilitation Medicine, University of Washington; **Judith Focareta**, Magee-Womens Hospital of UPMC

10:00 a.m. - 10:45 a.m. [Poster Sessions with Author Q&A](#)

## MAIN CONFERENCE

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

**E1 High Performance Run-around Energy Recovery Systems: Munich's Bogenhausen Hospital & Edmonton, Alberta's Cross Cancer Institute**

Air-conditioning systems are among the greatest energy consumers of hospitals. European high performance 'run around energy recovery systems' (RAERS), guaranteeing strict separation of air intake and exhaust, are operating at efficiencies of 70-80%. Combined with advanced control software, they reduce the annual energy requirement for heating/cooling by 75-90% and at the same time provide a large reduction in peak heating/cooling demand. The Munich-Bogenhausen Hospital, a 1000 bed facility built in the early 1980ies, undertook major renovations and upgrades during 2006-2009. This energy recovery system reduces the cost to heat the supply air to constant 60F by 78% annually.

**Rudolf Zaengerle**, Konvekta USA Inc.; **David Lima**, University of Alberta Medical Center/Aqua Air Systems

**E2 Green Cleaning: The Why, Who, What, and How**

Facilities across the country are increasingly implementing green cleaning practices to create a safer workplace while maintaining a safe and healing environment. This session will provide an overview of environmental and health considerations associated with cleaning products and highlight a framework for identifying effective cleaning protocols in combination with safer chemicals and green cleaning equipment. Also learn about the benefits of implementing green cleaning practices, including a reduction in the number of products used, increased patient and staff satisfaction, water and chemical use reduction, and improved air quality.

**Julie Marth**, Cleveland Clinic; **Mitch Birchfield**, Seattle Children's

**E3 Environmental Purchasing at Group Purchasing Organizations**

Each GPO will discuss how environmental purchasing works at their organization, their successes and challenges, and their progress in the last year. Audience members will have the opportunity to ask our panel of GPO representatives questions.

**Kellie McNelis**, Premier; **Jennifer Waddell**, Novation; **Michael Jones**, HealthTrust Purchasing Group; **Alex Brown**, MedAssets; **Randy Walter**, Amerinet

**E4 Sustainability in Medical Technology**

Within healthcare, medical device technology represents an important and impactful resource. As an industry, medical technology manufacturers must lead the industry in its efforts to engage in more sustainable practices. These include efforts to reduce waste and unnecessary resource consumption, but also a broader focus on healthcare sustainability in device design, sourcing, manufacturing and more. This session aims to uncover some of the key goals and pathways for the medical technology industry.

**Derrick Mains**, Your3BL Sustainability Advisors; **Lars Thording**, Ascent, A Stryker Sustainability Solution



## MAIN CONFERENCE

### E5 Win Win Case Studies for Waste Reduction & Cost Savings Success

American hospitals produce more than 6600 tons of waste daily. How can your organization be part of the solution? This session will focus on easy-to-accomplish activities that reduce waste, increase savings, and support green initiatives at any organization, big or small. Simple changes related to service frequency, staff education, and source reduction has added up to over \$850,000 in annual savings for Fairview. We will review basic ways to reduce waste through training, reviewing service frequencies, and highlighting activities such as paper reduction pledges and mapping the use of disposable items that can be implemented with no cost but bring immediate savings.

**Crystal Saric**, Fairview Health Services; **Warren Goodman**, Bon Secour; **Bob Guanci**, Bon Secours

### E6 Leadership's Role in Sustainability Initiatives – Case Study by Spectrum Health

A Quality construction starts with a firm foundation – and it's no different with a commitment to environmental excellence. Increasingly, the groundswell of departmental activities is making its way into the board room and leaders are recognizing the critical need for leadership engagement. Join us for a step by step approach to leadership's role in sustainability, including sustainability infrastructure, reporting, and connection to other initiatives, metrics, education, employee engagement, recognition and more. A case study of Spectrum Health System will highlight their sustainability journey, framework, strategic thinking and infrastructure for their eight hospital system located in Western Michigan. Tips and guidance documents will round out this offering, providing take-home value.

**Janet Brown**, Practice Greenhealth; **Josh Miller**, Spectrum Health

12:15 p.m. - 1:30 p.m. **Lunch & Presentation of CleanMed Awards**

**Charlotte Brody Award**  
**Stephanie Davis Scholarship(s)**  
**Raffle for CleanMed 2012**  
**Final Remarks and Adjourn**

## POST-CONFERENCE EVENT

2:00 p.m. - 6:00 p.m. **Tour of Ascent Reprocessing Facility**

With sunny Phoenix as the host city for CleanMed 2011, attendees are presented with a great opportunity to go "off-site" and tour one of Ascent's nearby manufacturing facilities. During the tour, attendees will experience SUD reprocessing first-hand, including witnessing Ascent's cutting edge technology at work in the pre-cleaning, sterilization, function-testing, and packaging processes. They will also hear about the myriad ways Ascent can support their hospital partners' sustainability initiatives – not only through reprocessing, but also by helping hospital green teams achieve their environmental goals across all hospital departments.

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