

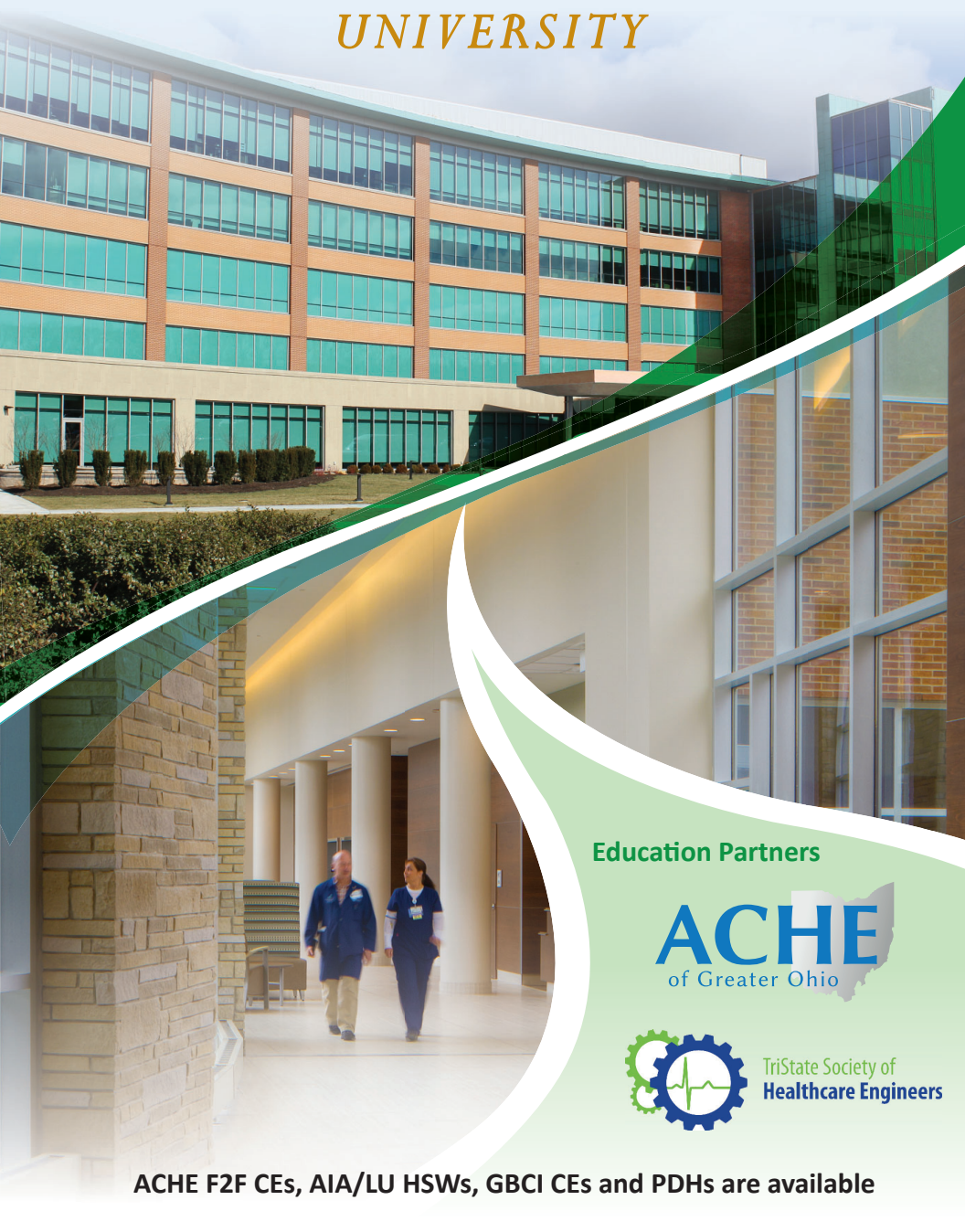
2017

Symposium on **Sustainability** in **HEALTH CARE**

Co-Hosted by



WRIGHT STATE
UNIVERSITY



Education Partners



TriState Society of
Healthcare Engineers

ACHE F2F CEs, AIA/LU HSWs, GBCI CEs and PDHs are available

10 AM - 2 PM TRADE EXPO & NETWORKING

2017 SESSION AGENDA

MORNING EDUCATION SESSION

10:00 AM - 11:30 AM TSHE Roundtable Session - Rooms 203/204
These subject matter experts will share their experience in a small group discussion. (Sponsored by the TriState Society of Healthcare Engineers - TSHE)
AIA LU/HSWs, GBCI CEs, PDHs

KEYNOTE LUNCH PRESENTATION

11:30 AM - 1:00 PM Dr. Nicholas F. Larusso - Ballroom B
The Well Living Lab: A Partnership of Building and Health Science
AIA LU/HSWs, GBCI CEs, PDHs

AFTERNOON CONCURRENT SESSIONS: 1:30 PM / 2:00 PM

1:30 PM - 3:00 PM Evidence-Based Medicine and Design - Ballroom B
This Panel will discuss aligning Evidence-Based Design and Evidence-Based Medicine to design a more efficient and higher quality patient-centered healthcare delivery model.
ACHE F2F CEs, AIA LU/HSWs, GBCI CEs, PDHs

2:00 PM - 3:00 PM TSHE Roundtable Session - Rooms 203/204
These subject matter experts will share their experience in a small group discussion format. (Sponsored by the TriState Society of Healthcare Engineers - TSHE)
AIA LU/HSWs, GBCI CEs, PDHs

3:15 PM CONCURRENT SESSIONS

3:15 PM - 4:15 PM WELL Building Standard™ - Room 202
This session will provide an understanding of the WELL Building Standard™ discussing the stages, benefits and case studies.
AIA LU/HSWs, GBCI CEs, PDHs

3:15 PM - 4:45 PM Disruptive Innovation in Healthcare Delivery - Ballroom B
This panel will focus on the role of innovation in the medical marketplace and examples of disruptive innovations that will change lives in health care.
ACHE F2F CEs, AIA LU/HSWs, GBCI CEs, PDHs

4:15 PM - 5:15 PM SPONSORS RECEPTION

Cocktails and hors d'oeuvres will be provided

2017 Symposium on Sustainability in Health Care

CO-HOSTS



Wright State University, inspired by the innovative spirit of the Wright Brothers, is a leading institution of higher education serving nearly 18,000 students in an environment focused on achieving learning outcomes through innovative, high-quality programs, conducting scholarly research and creative endeavors, and partnering with the community to transform the region. The Wright State University Boonshoft School of Medicine has become a national leader in generalist medicine and community service. The Wright State University-Miami Valley College of Nursing and Health is committed to excellence in nursing education.



Heapy Engineering, nationally recognized for its leadership in sustainable design, provides MEP Systems Design, Energy, Commissioning, Technology and Planning Services primarily for Healthcare, Mission Critical, Higher Education, Government and Cultural markets. The firm is involved in over 400 LEED projects—over 50% of certified projects attaining GOLD and PLATINUM certification. Heapy Engineering was the Engineer for the Kettering Health Network's Kettering Cancer Center and the Cleveland Clinic Avon Hospital.

To Our Attendees

Thank you for attending the 7th annual Symposium on Sustainability in Health Care. The co-hosts of SSHC-2017 hope what you learn at today's symposium will assist you in integrating sustainable strategies into your everyday approach to healthcare.

—Wright State University and Heapy Engineering

10:00 AM - 11:30 AM

TSHE ROUNDTABLE

AIA LU/HSWs, GBCI CEs, PDHs

Rooms 203/204

Welcoming Remarks
KEN PETERS, CHFM, CHSP
Manager Facility and Security Services
Clinton Memorial Hospital Regional Health System

Introduction of Panelists
ERIC LAUDICK
Project Manager, Heapy Engineering



**SUSTAINABILITY AND RESILIENCY IN HEALTHCARE
- HOW ARE THEY RELATED?**
KIM PATTON, RA, NCARB
Chief Operating Officer, PDT Architects
As Chief Operating Officer, Kim is responsible for overseeing the success of projects and relationships from inception to completion, managing the work of teams at all levels of design, construction documentation, and construction administration.



**HEALTHCARE COMMISSIONING
- REQUIRED BY OHIO CODE**
ALEC CARNES, PE, CEM, HBDP, LEED AP BD+C
Building Optimization Practice Leader, Heapy Engineering
Alec is responsible for operations ranging from Sustainability Consulting, Alternative Energy Systems, and Commissioning Services. This unique group of Energy Engineers and Commissioning Technicians is responsible for over 400 LEED projects in the BD+C, ID+C, and O+M rating systems as well as Commissioning for over 20 million SF of facilities.



SUSTAINABLE PARKING
STEVE REBORA, RA
President, DESMAN
Steve is a licensed architect and has been an integral part of the parking design and planning industry for over 25 years. His experience within the architectural field includes Master Planning, Green Building Design, Project Management and Field Coordination. Steve has a wide range of capabilities pertaining to parking structure planning, sustainability and innovation. Steve he has been involved with hundreds of projects throughout the United States and abroad. Many on Healthcare Campus’.

MY PROGRAM INSIGHTS

11:30 AM - 1:00 PM

KEYNOTE LUNCH PRESENTATION

AIA LU/HSWs, GBCI CEs, PDHs

Ballroom B

Welcoming Remarks
Wright State University

Welcoming Remarks and Introduction of Keynote Speaker
MICHAEL BERNING, PE, CEM, LEED FELLOW
Sustainability Director, Heapy Engineering
Chair, USGBC Ohio

**THE WELL LIVING LAB:
A PARTNERSHIP OF BUILDING AND HEALTH SCIENCE**
DR. NICHOLAS F. LARUSSO
Former Medical Director of Mayo Clinic Center for Innovation and Distinguished Investigator of The Mayo Foundation



Dr. LaRusso’s talk will focus on the link of Wellness and Sustainable Design. He will help us explore how integrating Healthcare’s evidence-based design concepts with sustainability-based design and construction strategies will positively affect human health, well-being and comfort.

He will explain how and why Healthcare leaders and leaders of the organizations and businesses serving healthcare can and should promote such integration. Dr. LaRusso will also discuss the results observed when they do.

MY PROGRAM INSIGHTS

1:30 PM - 3:00 PM EVIDENCE-BASED MEDICINE AND DESIGN

ACHE F2F CEs, AIA LU/HSWs, GBCI CEs, PDHs

Ballroom B

Introductions

JOHN BLACK, PE, CTS, LEED AP BD+C

Senior Principal, Heapy Engineering

Introduction of ACHE

ED SYRON, FACHE, PhD

General Practice Manager, Dayton VA Medical Center

Education Track Sponsor

ALEX WAIBEL

BuildingLogiX Business Manager, Waibel Energy Systems

Introduction of Panelists

MICHAEL FITZGERALD

Senior Manager, The Chartis Group



JARROD MCNAUGHTON, FACHE, MBA

President, Kettering Medical Center

Executive Vice President, Kettering Health Network

In Jarrod's previous position, he was the Network Vice President of Missions and Development at Kettering Health Network (KHN). In this role, he was responsible for marketing, communications, government relations, community relations, church relations, mission integration, spiritual services and network philanthropy alignment.



ROSALYN CAMA, FASID, EDAC

President and Founding Partner, CAMA

Rosalyn "Roz" is President and Principal Interior Designer of CAMA in New Haven, Connecticut. CAMA, Inc. is a health design studio and lab that has spearheaded the evidence-based design movement. CAMA's mission focuses on designing a better LIFE INDOORS where all can thrive and flourish.



JOE FERDELMAN, PE, HFD, LEED AP BD+C

Healthcare Practice Leader, Heapy Engineering

Joe provides guidance to the firm's engineering staff on matters regarding the latest innovations in healthcare design and the development of design tools, codes and overall industry insight. As a leader in the Mechanical and Electrical Consulting field, Heapy Engineering is recognized as one of the Top 20 Healthcare Engineering Firms. Such recent facilities include Mercy West Hospital, Cleveland Clinic Avon Hospital and Mount Carmel Grove City.



Moderator:

MICHAEL FITZGERALD

Senior Manager, The Chartis Group

Education Track Sponsor



2:00 PM - 3:00 PM TSHE ROUNDTABLE SESSION

AIA LU/HSWs, GBCI CEs, PDHs

Rooms 203/204

Introduction of Panelists

ERIC LAUDICK

Project Manager, Heapy Engineering



SUSTAINABILITY AND RESILIENCY IN HEALTHCARE - HOW ARE THEY RELATED?

STEVE KURTZ, AIA

Principal, Champlin Architecture

Steve Kurtz knows hospitals. Having spent over 20 years working as a Project Manager in the facilities department for two of the largest healthcare systems in Cincinnati, Steve has developed a keen understanding and appreciation of how the design and construction process can impact ongoing and future operations, and is ever mindful of its effects on an owner's bottom line. Steve has managed several major hospital expansions ranging in cost from \$10 to \$60 million.

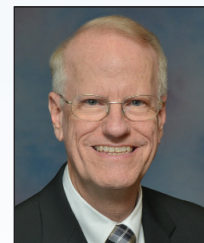


HEALTHCARE COMMISSIONING - BUILDING ENVELOPE

BRIAN LINC, AIA, LEED AP BD+C

Building Enclosure Commissioning Agent, Technical Assurance

Brian has over 13 years of experience in architectural design of new construction and facility renovations. His primary goal is to protect the interests of the owner, architect and engineers by reducing the owner's cost through enhancing the life cycle of a building and minimizing the legal risks to the design team. Brian is devoted to providing the best design and product possible, while being sensitive to the Owner's budget.



SUSTAINABLE PARKING

JIM MILLAR, AIA, PE, LEED AP BD+C

Immediate Past President, THP Limited

Jim Millar, Immediate Past President and now serving as Chairman of the Board of Directors, has worked at THP since 1976. He is a registered architect and a professional engineer. Jim leads many of THP's parking garage projects and provides structural engineering and senior project management for large, complex healthcare and institutional projects. He has special expertise in the coordination of architectural and engineering disciplines.



THE MISSION AND VALUE OF RESOURCE STEWARDSHIP REV. FRANK NATION

Vice President of Mission and Culture, TriHealth

Sustainability efforts originally developed out of the office of Mission with the focus on TriHealth's core value of Stewardship. Rev. Nation is a Board Certified Chaplain with the Association of Professional Chaplains and a certified educator with the Association for Clinical Pastoral Education. His current role as the VP of Mission and Culture focuses on Community Benefit, Theology/Ethics, Pastoral Care, Healthy Communities and Patient Experience.

Panel Discussion Sponsored by the TriState Society of Healthcare Engineers (TSHE)

3:15 PM - 4:15 PM

WELL BUILDING STANDARD™

AIA LU/HSWs, GBCI CEs, PDHs

Room 202

Introduction of Presenter

MICHAEL BERNING, PE, CEM, LEED FELLOW

Sustainability Director, Heapy Engineering
Chair, USGBC Ohio



WHITNEY AUSTIN GRAY, PhD, LEED AP, WELL FACULTY, WELL AP
Executive Director of Research and Innovation, Delos

At Delos, Dr. Whitney Austin Gray is responsible for the oversight of health research and the development of innovative design strategies and products that seek to improve human health and wellness through building design.

The Introduction to the WELL Building Standard presentation provides an overview of the WELL Building Standard ideology, structure, and certification process. The medical basis for the concept categories is introduced along with design and construction strategies to create healthy buildings. The time has come to elevate human health and comfort to the forefront of building practices and reinvent buildings that are not only better for the planet—but also for people. This presentation will introduce how to do this using the WELL Building Standard as the framework.

WELL is managed and administered by the International WELL Building Institute (IWBI), a public benefit corporation whose mission is to improve human health and wellbeing through the built environment. The WELL Building Standard™ is the leading tool for advancing health and well-being in buildings and communities globally. It consists of features across the seven concepts of air, water, nourishment, light, fitness, comfort, and mind that comprehensively address not only the design and operations of buildings, but also how they impact and influence human behaviors related to health and well-being.

As the pioneer of Wellness Real Estate™ and founder of the WELL Building Standard™, Delos is transforming our homes, offices, schools and other indoor environments by placing health and wellness at the center of design and construction decisions. The Delos platform includes technology, consulting, research, design and innovative solutions for the built environment – creating spaces that nurture and promote human health and well-being.



3:15 PM - 4:45 PM

DISRUPTIVE INNOVATION IN HEALTHCARE DELIVERY

ACHE F2F CEs, AIA LU/HSWs, GBCI CEs, PDHs

Ballroom B

Introductions

JOHN BLACK, PE, CTS, LEED AP BD+C

Senior Principal, Heapy Engineering

Education Track Sponsor

DAVE CROSLEY

General Manager, Waibel Energy Systems

Introduction of Panelists

MICHAEL FITZGERALD

Senior Manager, The Chartis Group



MICHAEL UHL, FACHE, MSN, MBA, RN, CEN
President, Atrium Medical Center (Premier Health)

Mike assumed the role as president of Atrium Medical Center in January 2017. Prior to that, he served as the hospital's chief operating officer after a stint as Premier Health's system vice president of operations innovation. Uhl began his health care career as a nurse at Middletown Regional Hospital more than 20 years ago. After advancing to management roles at that hospital, Mike joined Deloitte Consulting LLP, working with health care clients throughout the country.



CRAIG SELF, FACHE

Chief Strategy Officer, Premier Health

Craig is the Chief Strategy Officer for Premier Health. He joined Premier Health in 2007. He has direct responsibility for strategic planning, service lines, market research and development, physician and advanced practitioner recruitment and business development. Craig has over 25 years of industry experience, including a wide range of senior executive, operational, business development and strategy roles with emergency medical services (EMS), multi-specialty physician group practices, and tertiary and community hospitals.



ROBERT SCHWYN

Director and Healthcare Consultant, The Chartis Group

Bob Schwyn is a Director with The Chartis Group. He has extensive experience as a healthcare information technology executive leading teams in clinical transformation and the design and delivery of solutions for enhancing patient care quality, improving operational effectiveness and achieving excellence in customer service.



Moderator:

MICHAEL FITZGERALD

Senior Manager, The Chartis Group

Education Track Sponsor



10:00 AM - 2:00 PM

TRADE EXPO

3form / LightArt <i>Celebrate Color, Light and Shape; Earth Friendly, Renewable Solutions for your Interior and Exterior Design</i>	206-524-2223	Kenall / King Lighting <i>Advanced Healthcare Lighting Solutions</i>	937-223-0303
ACHE of Greater Ohio <i>Helping Healthcare Leaders in the Greater Ohio Area Connect and Advance (ohioache.org)</i>	312-424-2800	Kohler Co. <i>Commercial Plumbing Fixtures and Faucets</i>	513-250-5428
Air Enterprises, Ketchum & Walton and Camfil <i>Air Enterprise Air Handling Systems Supporting Healthcare & Infection Control</i>	513-489-7111	LATHROP TROTTER CO. <i>Commercial & Industrial HVAC and Power Plant Equipment</i>	513-731-5000
Archoustics Mid-America / LogiSon <i>Mfg's Rep Group: Furniture, Sound Masking</i>	513-891-0006	legrand <i>Plug Load Control, Dimmers, Sensors, Timers, Digital Lighting Management (DLM)</i>	216-533-1728
ASCO Power Technologies / ASCO Services <i>Transfer Switches, Paralleling Switchgear</i>	513-900-0177	Melink Corporation <i>Demand Ventilation Controls</i>	513-965-7003
Belimo Americas <i>Energy Value</i>	800-543-9038	Midwest Spec <i>Manufacturer's Representative for Commercial Plumbing and Heating Products</i>	513-353-9191
Buckeye Power Sales <i>Sales and Service of Standby Power Systems</i>	513-755-2323	Ohio CAT <i>Caterpillar Generator Sales, Service & Parts</i>	440-838-7403
BWA South <i>Manufacturer's Rep. Specializing in Strategic Sustainable Solutions</i>	614-876-2477	Solid Blend Technologies Inc. <i>Water Treatment Services for HVAC Systems & Legionella Control</i>	937-264-8453
Champlin Architecture <i>Provides Architectural and Interior Design</i>	513-241-4474	Source One Contract <i>Interior Surface Materials</i>	614-551-7928
Cummins Power Generation <i>Generators, Automatic Transfer Switches and Switchgears</i>	513-956-3079	STARLINE <i>Flexible Power Distribution Solutions</i>	724-597-7800
Delta Air Systems <i>Distributor of Kingspan KoolDuct & Thermaduct</i>	855-566-5382	Stoermer-Anderson Inc. <i>DriSteam Low Maintenance Humidification Systems & Danfoss Pressure Independent Control Valves</i>	513-527-2300
DESMAN <i>Parking Consultants, Engineers & Architects Specializing in Parking Garages & Consulting</i>	614-557-4297	STOERMER-ANDERSON INC. <i>Yaskawa Variable Frequency Drives</i>	513-527-2300
DIRTT Environmental Solutions <i>Creating Custom Interiors with Minimal Waste, Fast Lead Times, Precise Fit & Finish</i>	859-447-3461	The Cope Company Salt / AUTOBrine <i>Manufacturer of Automatic Brine Delivery System</i>	800-724-9916
Duro-Last Roofing <i>Manufacturer of Custom-Fabricated Single-Ply Roofing Systems Used on Commercial Spaces</i>	866-735-8824	The Garland Co. Inc. <i>Building Envelope Products for Efficiency</i>	937-239-4316
Eldon Water <i>Industrial Water Management</i>	888-712-4000	THE HABEGGER CORPORATION / MITSUBISHI <i>Mitsubishi and Carrier Leaders in the HVAC Industry</i>	937-224-8050
ESCO COMMUNICATIONS <i>Comprehensive Suite of Solutions for the Healthcare IT Ecosystem</i>	800-613-3726	THP Limited Inc. <i>Structural Engineering, Parking, Restoration & Waterproofing Consulting</i>	513-241-3222
greensource Cincinnati <i>Critical Power & Cooling Equipment and Services</i>	866-846-4733	TREMCO INC. <i>Roofing and Weatherproofing Products, Services & Diagnostics</i>	937-371-3081
Heapy Engineering <i>MEP, Commissioning, Sustainability & Energy, Technology</i>	937-224-0861	USGBC Southwest Ohio Region <i>U.S. Green Building Council Southwest Ohio Region</i>	513-835-3424
Innovative Lighting Solutions <i>Eaton Lighting LED Medical Lighting Fixtures for Healthcare Facilities</i>	513-410-4697	VALIDATED CUSTOM SOLUTIONS <i>Aerco High Efficiency Boilers, Fresh-air UVGI</i>	513-919-3328
Inpro <i>Interior Architectural Products</i>	800-222-5556	Vertiv / Climate Conditioning / Uptime Solutions <i>Liebert Critical Support Systems</i>	513-489-1100
JOHNSON CONTROLS INC. <i>Johnson Controls is a Global Diversified Technology and Multi Industrial Leader</i>	414-524-1200	Waibel Energy Systems <i>Building and Energy Services</i>	937-264-4343

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100% of the carbon emissions from the 2017 Symposium on Sustainability in Health Care have been mitigated with renewable energy credits and carbon offsets donated by Renewable Choice Energy. These offsets address the electricity used at the event and the carbon emissions from attendees' travel. By offsetting this event, 17,227 pounds of CO2 emissions are avoided, which is equivalent to taking two passenger cars off the road for a year or planting 200 tree seedlings and growing them for 10 years.