7th Annual Conference

Academic Medical and Health Science Centers 2013

Integrated plans for integrated medical and health science programs

Plus! Pre-Conference Training October 20
Fundamentals of Space Planning and Space Management for Academic Medical and Health Science Centers

Plus! Site Tour October 23
Lake Nona Medical City including:

- Nemours Children’s Hospital, Orlando (NCH)
- University of Central Florida College of Medicine, Medical Education Facility
- University of Florida Lake Nona Research & Academic Center

October 21-22, 2013
Orlando, Florida
Gaylord Palms Resort
Major new academic medical and health sciences initiatives are being built on integrated planning models for facilities, academic programs, and finance and new physical and virtual collaborative links between research, education, and clinical care.

These initiatives are paying off!

Capital dollars are going farther. Operating expenses are being lowered. Program competitiveness, efficiency, and productivity are increasing. And bottom-line financial performance is improving.

Attend this conference to check your plans, processes, and initiatives against what leading peer institutions are doing and how they are successfully implementing changes to:

- Improve outcomes for translational medicine, medical education, and research
- Accelerate knowledge translation
- Get more program from scarce capital dollars
- Lower operating costs
- Increase the utilization of space and scientific equipment – Be more competitive
- Increase program capacity
- Improve capital planning processes
- Raise enterprise-wide profitability

Attend with your planning team (finance, administration, education, research, clinical care, capital projects, and facility operations) to get the major stakeholders on the same integrated planning page for the most successful educational, research, and clinical care enterprise possible.

We very much look forward to seeing you in Florida!
Sunday; October 20

Fundamentals of Space Planning and Space Management for Academic Medical and Health Science Centers

7:30 a.m. Registration/Continental Breakfast
8:00 a.m. – 4:30 p.m. (a total of 6 hours instruction)

Leaders:

University Health Network
MedRIST, Research Facilities Planning and Safety
Ian McDermott, B.Sc. – Senior Director
Anthony Palma, M.Sc. – Manager, Facilities Planning
John Shannon, B.Sc. Hons. – Manager, Safety

What you will learn: This course provides an introductory-level primer on planning and management of physical space in an academic medical and health science center setting. The course includes fundamental space planning and management vocabulary and concepts, and details the fundamental policies, processes, practices, analytical tools, and database management concepts involved in developing and implementing a space management plan for academic medical and health science centers.

Who should attend: This course is open to all facility planners and designers, operations management, space planners, facility managers, resource and space analysis management, financial planners, real estate portfolio/campus management, architects and engineers, consultants, and software, furniture and casework providers.

Agenda:

Module 1 – An Overview of Space Planning and Management
Module 2 – Understanding Relationships (Research, Clinical, Education)
Module 3 – Incorporating Support Services & Operational Processes
Module 4 – Making Your Environments Fundamentally Safe Through the Right Planning
Module 5 – Developing Space Standards, Metrics and Tools
Module 6 – Applying Space Planning/Management Strategically

Space is limited and enrollment is subject to approval.

Six (6) AIA Continuing Education Hours (CEHs) are available for this course.

Cost:

$1040 Fundamentals Course only
$900 with registration to the two-day conference October 21-22
(Fees include course materials, continental breakfast, refreshment breaks, lunch)
Wednesday; October 23

Lake Nona Medical City

Departs hotel at 8:00 a.m.; Continues on to Orlando International Airport for drop at terminals at 12:30 p.m.;
Returns to hotel at 1:00 p.m.

The new 650-acre health and life sciences park known as Lake Nona Medical City is a landmark for Orlando, and represents a deliberate strategy to create a centralized focus of sophisticated medical treatment, research, and education in Central Florida. Based on the proven theory that a cluster of healthcare and bioscience facilities in proximity to one another will accelerate innovation, over the next decade this intellectual hub will be home to some of the nation’s top hospitals, universities, research institutions and life science companies. The Medical City’s pioneering institutions are forming networks and synergies, making Orlando a global destination for health care, research, and medical education while creating an economic development and job creation engine for the region.

This tour will include the following facilities:

Nemours Children’s Hospital, Orlando (NCH)

Here, Nemours brings their comprehensive children’s healthcare and research capabilities to the forefront of the emerging health and science sector of Central Florida. It also strategically places Nemours Children’s Hospital and research campus within easy access of the other influential institutions, facilities and companies located within Lake Nona Medical City, increasing the potential for beneficial collaboration.

University of Central Florida College of Medicine, Medical Education Facility

The $65 million, 170,000-sf medical education building reflects UCF College of Medicine’s innovative curriculum in state-of-the-art labs, library, and classroom technology. The building is home to the Harriet F. Ginsburg Health Sciences Library, a Clinical Skills and Simulation Center, a 5,300-sf Microscopy Lab and a world-class Anatomy Lab. The building is expected to receive the LEED silver certification.

University of Florida Lake Nona Research & Academic Center

This new 100,000-sf University of Florida building establishes collaborative relationships with Lake Nona Medical City institutions and other Florida research entities. Linking students, faculty, and private industry is a core mission. Biomedical research areas include two floors of open laboratories made up of large, “ballroom”-plan bench areas with mobile sinks and casework supported by fume hood and biosafety cabinet alcoves. Labs have views of a wooded preserve and an internal glass wall provides transparency and visual connections to offices. One floor is devoted to research conducted in enhanced BSL-3 and ABLS-3 environments, with dedicated and redundant MEP and security systems.

Important Tour Notes:

Attendance is limited. Space will be filled on a first-come, first-served basis.

YOU MUST SIGN UP IN ADVANCE (SEE REGISTRATION FORM) AND HAVE WRITTEN CONFIRMATION FROM TRADELINE IN ORDER TO ATTEND THE TOUR.

All tour participants must arrive at site on the tour bus with the tour group. For security reasons, no one may meet the group at the tour site. We cannot make any exceptions.

A $25 bus transportation fee will be charged to your registration fee. This fee is non-refundable for cancellations made within two weeks of the tour date.
Conference Participants

Speakers

• Cincinnati Children’s Research Foundation
• CO Architects
• Dartmouth-Hitchcock Medical Center
• Elgin Community College
• Ellenzweig
• Flad Architects
• Florida Hospital, Sanford/Burnham Medical Research Institute
• Greenville Health System
• HDR Architecture, Inc.
• HGA Architects & Engineers
• HOK
• Howard Hughes Medical Institute
• JE Dunn Construction
• KlingStubbins
• Lake Nona Medical City
• Nicholas Browse and Associates
• Oregon Health & Science University
• Payette
• Penn State Milton S. Hershey Medical Center
• Performance Gap Solutions, LLC
• Rutgers University

Exhibitors

• Skanska USA Building, Inc.
• The S/L/A/M Collaborative
• The Translational Research Institute
• University of Florida
• University Health Network
• University of Massachusetts Medical School
• University of Pennsylvania
• University of South Carolina School of Medicine Greenville
• Vermeulens
• WSP Flack + Kurtz
• ZGF Architects LLP

Special Event Hosts

• Miele, Inc.
• Pacific Medical Buildings, LLC
• STARLINE
• Trespa North America

• CPP, Inc.
• Strobic Air Corp.
Register Now!
www.TradelineInc.com/AMHSC2013
Register with payment by Sept. 20 and Save $200

Special Events and Features:

Hosted Pre-Conference Reception
Sunday; October 20, 7:30 p.m. Light fare and dessert. Attendees may sign in and pick up their conference materials at this time. Guests welcome.

Hosted Reception
Monday; October 21, 4:45 p.m. – 6:00 p.m. Guests welcome.

Food and Beverage
Registered attendees will be provided with lunch and refreshment breaks on both meeting days.

A continental breakfast will be served on the first meeting day and a full breakfast will be served on the second meeting day.

Please Note The Following
Dress for this conference is business casual. It is our goal to maintain the temperature of the meeting rooms at an acceptable level for all attendees. However, for your maximum comfort we suggest that you plan to dress in layers.

Audio or video recording devices are not permitted at this conference.

Sunday; October 20
Registration Sign-in/Continental Breakfast for Fundamentals Course 7:30 a.m. – 8:00 a.m.
* Fundamentals of Space Planning and Space Management 8:00 a.m. – 4:30 p.m.
Hosted Dessert and Light Fare Reception; Registration Sign-In 7:30 p.m. – 9:00 p.m.

Monday; October 21
Registration Sign-in/Continental Breakfast 8:00 a.m. – 8:30 a.m.
General Session 8:30 a.m. – 11:00 a.m.
Conference Overview
Speakers: Lake Nona Medical City; Dartmouth-Hitchcock Medical Center; University of South Carolina School of Medicine Greenville; Greenville Health System

Concurrent Forum Sessions 11:15 a.m. – 12:10 p.m.
C. One integrated facility speeds translation of research discovery to patient cures: A public/private success story
D. Simulation training facilities for multiple disciplines: Nurses, doctors, and teams
K. Modular construction for efficiency-driven, technically sophisticated research and clinical care projects at lower cost
M. New requirements for high tech core facilities: Shared resources, space, technology, capital costs

Luncheon Hosted by CPP, Inc. 12:10 p.m.

Concurrent Forum Sessions 1:15 p.m. – 2:10 p.m.
B. The modern health science workspace: Environments that support translational medicine
E. Inter-professional simulation centers: Upgrades and sustainable financial models
I. The new construction cost forecast and timing decisions for AMHSC capital projects

Concurrent Forum Sessions 2:25 p.m. – 3:20 p.m.
A. Planning for team-based learning, research, and care: Eliminate silos, converge disciplines, and collaborate!
F. New instructional technology: Critical for your health sciences education program and facilities
N. 10-year master plan case study: Full implementation delivers a modern academic healthcare campus

General Session 3:50 p.m. – 4:45 p.m.
Speakers: Rutgers University; The Translational Research Institute

Reception Hosted by Strobic Air Corp. (Guests Welcome) 4:45 p.m. – 6:00 p.m.

*Additional cost to attend +Presented at this time only.
Tuesday; October 22

Hosted Breakfast 7:15 a.m. – 8:00 a.m.

Concurrent Sessions 8:05 a.m. – 9:00 a.m.

G.   + Facility upgrades for clinical vaccine production and bench to bedside therapy
H.   + Master planning for much-needed medical and educational program growth, recapitalization and repurposing
L.   + Building commissioning: A value-adding alignment tool for academic, capital, and operating requirements

General Session 9:20 a.m. – 10:15 a.m.
Speakers: Howard Hughes Medical Institute, Janelia Farm Research Campus; Elgin Community College

Concurrent Forum Sessions 10:40 a.m. – 11:35 a.m.
A.   Planning for team-based learning, research, and care: Eliminate silos, converge disciplines, and collaborate!
B.   The modern health science workspace: Environments that support translational medicine
J.   + Capital project planning for unknown occupants: Aligning research, academic program, and financial goals

Concurrent Forum Sessions 11:50 a.m. – 12:45 p.m.
E.   Inter-professional simulation centers: Upgrades and sustainable financial models
C.   One integrated facility speeds translation of research discovery to patient cures: A public/private success story
I.   The new construction cost forecast and timing decisions for AMHSC capital projects

Hosted Luncheon 12:45 p.m.

Concurrent Forum Sessions 1:45 p.m. – 2:40 p.m.
D.   Simulation training facilities for multiple disciplines: Nurses, doctors, and teams
K.   Modular construction for efficiency-driven, technically sophisticated research and clinical care projects at lower cost
N.   10-year master plan case study: Full implementation delivers a modern academic healthcare campus

General Session 2:55 p.m. – 3:40 p.m.
Open Forum/Town Hall Meeting
Adjourn 3:40 p.m.

Wednesday; October 23

* Facility Site Tour (must be pre-registered to attend) 8:00 a.m. – 1:00 p.m.

*Additional cost to attend +Presented at this time only.

Tradeline is a Registered Provider with The American Institute of Architects Continuing Education Systems. Credit earned on completion of this event will be reported to CES Records for AIA members by Tradeline. Certificates of Completion for non-AIA members are available upon request.

There are a maximum of 16 Continuing Education Hours (CEHs) available at this conference. Sessions marked with the AIA CES logo have been registered with the AIA/CES Record. AIA

"[Tradeline] was the best that I have ever seen in any conference in 40 years! You should be proud of that."

Dr. Sam Lux
Chief, Dept. of Hematology/Oncology, Children’s Hospital Boston
Lake Nona’s multi-institution, shared resource, “no-silos” culture of collaboration

Lake Nona Medical City
Thaddeus Seymour, Jr., Ph.D. – Senior Vice President
Lake Nona Medical City in Orlando, Florida, is a “greenfield” life sciences innovation cluster that has attracted over $2 billion in investment over the last six years. Thad Seymour Jr. profiles Lake Nona’s collaborative governance, funding sources and recruiting strategies that have engaged public and private institutions and created an effective, highly competitive multi-institutional clinical and biomedical research engine. He highlights enabling investments in infrastructure, equipment, and staff, and profiles what has been put in place to minimize “silos,” encourage entrepreneurial ventures, and shorten the time required to translate research discoveries into clinical cures.

New solutions for researcher/clinician collaboration and faster clinical cures

Dartmouth-Hitchcock Medical Center
Gail Dahlstrom – Vice President, Facilities Planning and Management
To shorten the time between research discovery and clinical practice, a leading strategy is to put researchers and clinicians in close proximity and get them collaborating—a move that has proven successful for Dartmouth-Hitchcock Medical Center. Gail Dahlstrom examines the evolution of collaboration models, supporting facility features, and operating plans in the Norris Cotton Cancer Center, and findings which have shaped the design for the new Williamson Translational Research Building. She profiles refined facility layouts, adjacencies, circulation strategies, and knowledge sharing models all aimed at one goal: productive, efficient, and faster translational medicine.

Education models for an interprofessional, team-skilled, tech-savvy, and practice-ready workforce

University of South Carolina School of Medicine Greenville
Lynn M. Crespo, Ph.D. – Associate Dean for Education
Four factors reshaping medical education are: 1) demand for practice-ready physicians in a rapidly changing healthcare environment, 2) educational expectations of millennial learners, 3) training requirements for outcome-driven, evidence-based, patient-centered care, and 4) interprofessional learning and care teams. Lynn Crespo sets out critical skills for healthcare workers in progressive clinical care models including interpersonal communication, competency with technology, informatics, and data analysis. She illustrates details of learning environments that enable millennial learners to meet those requirements, and facility designs that promote a learning community—critical to graduating the new generation of healthcare providers.

The Clinical University: Setting the standard for new millennial learners

Greenville Health System
Mark Loukides – Executive Director, Facilities Development
Greenville Hospital System and University of South Carolina’s partnership for a new medical school and medical education building is built on the “Clinical University” model which blurs the lines between hospital, medical school, and clinical research institute. Mark Loukides profiles differentiating features of the new building that facilitate planned interactions among active medical practitioners and students, and sets a new standard for continuing medical education and clinical skills development. He details features designed for “new millennial” learners including student-focused labs, learning studios, lecture halls, classrooms, and simulation spaces, and he sets out best practices for today’s medical education construction projects.

Changing course: Decoupling clinical care and education

Rutgers University Facilities and Capital Planning
David Schulz – Former VP for Administration, University of Medicine and Dentistry of New Jersey
To get ahead of operating, financial, and program pressures, rapid and large-scale reorganization of programs, facilities, and finance for health science education, research, and patient care are now under way. David Schulz examines drivers behind the decision to dismantle UMDNJ—the nation’s largest freestanding academic medical center—resulting in standing up New Jersey’s University Hospital as a new state instrumentality, and distributing academic programs and facilities between two other universities. He profiles project timelines, management and communication tools critical to the task, and processes to deliver on fast-track enterprise-wide change initiatives. He also illustrates how the new distributed programs and operating models will function.

Post-occupancy report: Australia’s proven translational medicine engine and facilities

The Translational Research Institute
Kate Johnston, PhD – Chief Operating Officer
Australia’s Translational Research Institute (TRI) is one of only a few places worldwide where new biopharmaceuticals and treatments can be researched, discovered, manufactured, and clinically tested in one location. Kate Johnson delivers lessons learned on research group productivity from the first year of operations including move-in, program productivity, utilization of specific facility features and research equipment. She also discusses findings on building operations, and profiles the design and capabilities of TRI’s recently opened co-located biopharmaceutical manufacturing facility, and its operating plans that accelerate bioresearch from the lab to late-stage research in a clinical setting.

Monday; October 21
Attend all of the General Sessions below
Improved facility asset information intelligence for better strategic and capital decisions

Howard Hughes Medical Institute, Janelia Farm Research Campus
Mark Philip – Director of Facilities

Reliable and actionable data on the condition and performance of aging facilities is a critical requirement for improved strategic capital spend decisions, and new data tools and processes deliver that capability with minimum cost and effort. Mark Philip profiles recent projects at Howard Hughes Medical Institute’s Janelia Farm Research Campus that leverage a subset of Building Information Modeling functionality and data links to standardize asset management, simplify data reporting and visibility, and improve operational efficiency. He outlines HHMI’s roadmap starting with “BIM without 3D,” illustrates lessons learned from initial deployment on campus renovations, and identifies next steps.

Competitiveness: Raising the bar for allied health education at community colleges

Elgin Community College
Wendy Miller, EdD – Dean of Health Professions

Community colleges are playing a key role in answering the critical shortage of allied health professionals, and new state of the art facilities are making that possible. Wendy Miller profiles Elgin Community College’s new Health and Life Sciences Building which delivers real-world, hands-on, experiential learning for students in nursing, radiography, dental assisting, clinical lab technology, histotechnology, surgical technology, massage therapy and physical therapist assisting. She sets out rationales for decisions on laboratory features, high fidelity simulation, classroom configurations, onsite clinics and student collaboration spaces, identifies lessons learned, and previews next steps including development of new programs.

Open Forum/Town Hall Meeting

Facilitators: Tradeline, Inc.
Steve Westfall – Founder and CEO
Derek Westfall – President

In this closing session of the conference, you’ll learn details from conference participants on new initiatives and innovations concerning integrated planning initiatives to remove program silos and reduce cost, space utilization, shared space and shared technology resources, renovation and modernization programs, academic-clinical-research program integration, and facility infrastructure and equipment investments for medical education, translational medicine, and research. Also, this is an opportunity to put specific questions to the group for a peer group response. This session uses audience testimony and big-screen projection of computerized note taking to build a useful body of information on key and problematical issues. Session notes will be sent to all attendees.

“Tradeline programs have been the foundation for our Design & Construction Group. We haven’t found a quality knowledge exchange that comes anywhere close to what you have to offer. The confluence of thought leaders, peers who are facing the same issues, and consultants who you can evaluate at the conference who also can help you get your jobs done is to me the ‘sheer genius’ of the conference concept you have created and sustained over the years. Congratulations! You are making contributions to what we do and who we serve in ways that you couldn’t in your wildest even imagine.”

Walter W. Davis
Assistant VC & Assistant Dean for Facilities Operations [retired]
Washington University School of Medicine
A. Planning for team-based learning, research, and care: Eliminate silos, converge disciplines, and collaborate!

**CO Architects**
Scott P. Kelsey, FAIA – Managing Principal
Jonathan Kanda, AIA, LEED AP BD+C – Associate Principal

The era of single-function, single-discipline academic medicine is over and academic programs and facilities are now being planned with a focus on integrating activities and galvanizing collaborations between disciplines and departments. Here session leaders detail programming and planning strategies that have been used to achieve successful integration in three diverse project settings: inter-professional health sciences education, collaborative life sciences research, and a medical simulation/imaging resource center. They summarize key integration features and analyze benchmarking data including academic program percentages, metrics for assignable space, social space, transparency, and flexibility. [AIA]

Monday 2:25 p.m. – 3:20 p.m. | Tuesday 10:40 a.m. – 11:35 a.m.

B. The modern health science workspace: Environments that support translational medicine

**HDR Architecture, Inc.**
Abigail Clary, AIA, ACHA, LEED AP – Vice President and Regional Director, Healthcare
Allison Amone, LEED AP, EDAC – Senior Workplace Strategist and Planner

**Cincinnati Children’s Research Foundation / Children’s Hospital Medical Center**
Kristine A. Justus, PhD – Assistant Director of CCRF / Vice President, Research Operations and Management for CCHMC

Modern scientific work styles, processes, and activity settings have dramatically changed how knowledge transfer, team synergies, and efficiencies are derived, and it takes more than co-location to get multiple disciplines collaborating productively. Here, session leaders demonstrate new mapping and data collection processes required to identify promising program intersections, form new organizational structures, and develop physical environments for multi-discipline research and clinical activities. They examine a case study at Cincinnati Children’s Hospital Medical Center and demonstrate how adjacencies, new technologies, flexible research modules, and new work settings accelerate discovery and therapies for clinical care. [AIA]

Monday 1:15 p.m. – 2:10 p.m. | Tuesday 10:40 a.m. – 11:35 a.m.

C. One integrated facility speeds translation of research discovery to patient cures: A public/private success story

**Flad Architects**
Laura Stillman, MPH – National Healthcare Practice Leader
Jeffrey Raasch, AIA, LEED AP – Project Designer

**Florida Hospital • Sanford | Burnham Medical Research Institute**
Robert Daininger, MBA – Administrative Director, Translational Research Institute for Metabolism and Diabetes (TRI)

Accelerated translation of research discovery into therapies delivered to patients is what the Translational Research Institute in Florida was built to deliver, and new metrics from this “beta test” site demonstrate that they have a recipe for success. Session leaders illustrate the integrated business plan, budget, organization and space planning, and facility design that make the translational research promise a reality. They reveal outcomes from accelerated studies in the integrated clinical/research environment after one-year of occupancy, demonstrate solutions to the challenge of uniting scientists, clinicians, volunteers, patients, and equipment in one building, and they profile space allocations and key adjacencies. [AIA]

Monday 11:15 a.m. – 12:10 p.m. | Tuesday 11:50 a.m. – 12:45 p.m.

D. Simulation training facilities for multiple disciplines: Nurses, doctors, and teams

**HGA Architects and Engineers**
Hal Henderson, AIA – Vice President
Roger Nelson, AIA, LEED AP – Associate Vice President

This session sets out a decision making framework that right-sizes multi-disciplinary medical simulation facilities, equipment capabilities, layouts, and budgets. Hal Henderson and Roger Nelson identify technology “best buys,” facility layouts, and operating protocols that support the training requirements of medical and allied health workers and teams. They profile flexible solutions for basic skills training, and those for more complicated, higher-order skills including electronically controlled mannequins, laboratory-grade gas systems, and HVAC systems that replicate different procedure room temperatures. They dive into audio-visual system options, materials, furnishings, HVAC/electrical systems, lighting, anesthesia booms, locations, and staffing, construction, and maintenance costs. [AIA]

Monday 11:15 a.m. – 12:10 p.m. | Tuesday 1:45 a.m. – 2:40 p.m.
E. Inter-professional simulation centers: Upgrades and sustainable financial models

The S/L/A/M Collaborative, Inc.
Mary Jo Olenick, AIA – Principal, Director of Strategic Development, Academic Programmer/Planner

Performance Gap Solutions, LLC
Jane Kleinman, RN, MAOM – Principal

Inter-professional simulation centers provide a big competitive advantage for academic medical schools, but keeping a “wow-factor” sim center afloat financially requires new thinking on feature selection, space use, staffing, and operating models. Mary Jo Olenick and Jane Kleinman examine the current state of the art and emerging trends for simulation centers, and identify cost and revenue factors that deliver financial sustainability. They illustrate an outcome-based critical path for upgrades and renovations that incorporates learner group goals, utilization projections, alternative revenue sources, performance enhancements, and risk avoidance to deliver the optimum capability/cost solution. [AIA]

Monday 1:15 p.m. – 2:10 p.m. | Tuesday 11:50 a.m. – 12:45 p.m.

F. New instructional technology: Critical for your health sciences education program and facilities

Ellenzweig
Michael Lauber, FAIA – President
Shrine Boulos Anderson, AIA, LEED – Principal

Nicholas Browse and Associates
Nick Browse – President

Rapid advances in clinical technology coupled with the need to reduce healthcare costs is driving growth and development of new medical and health science instructional technologies — and these are now a critical component of modern health and medical education. Here, session leaders examine instructional technology and implementation strategies from six newly constructed facilities and document rationales and decision-making processes including requirements for simulation and clinical skills, large- and small-group learning spaces, new “studio-style” venues, virtual learning spaces, and specialized environments for anatomy labs, videoconferencing, and distance learning applications. They detail budget, installation, and infrastructure requirements and what it takes to maintain them. [AIA]

Monday 2:25 p.m. – 3:20 p.m.

G. Facility upgrades for clinical vaccine production and bench to bedside therapy

KlingStubbins
Douglas K. Bradley, AIA, LEED® AP – Principal/Project Director
Martin Wendel, PE – Director of Engineering

University of Pennsylvania
Don L. Siegel, Ph.D., M.D. – Director, Transfusion Medicine & Therapeutic Pathology

The recent acceleration in cell therapy technologies brings with it a new set of complex and conflicting facility requirements: GMP and DOH regulations, competing patient and production priorities, validation and commissioning processes. Session leaders examine MEP, physical space, and operational solutions for integrating the latest technology. They profile The Hospital of the University of Pennsylvania’s recent project which collocates cGMP Clinical Cell Vaccine Production in an existing patient care setting, and they detail construction, operations, costs, and facility plans necessary to support tissue culture rooms, clinical flow sorter labs, pre-clinical and QC labs, PCR, freezer storage, and waste disposal. [AIA]

Tuesday 8:05 a.m. – 9:00 a.m.

Integrated Planning (H-N)

H. Master planning for much-needed medical and educational program growth, recapitalization and repurposing

ZGF Architects LLP
Karl Sonnenberg, AIA, ACHA – Partner

Oregon Health Science University
Brian Newman – Director Campus Planning, Development & Real Estate

This session sets out high-value solutions for challenges facing many large, aging medical campuses including competitiveness and growth pressures, increasing infrastructure costs, outdated facilities, and declining financial support. Session leaders chart processes used by Oregon Health Science University to assess program needs and facility conditions, and make macro- and micro-level decisions on project phasing, site selection, facility reuse, and recapitalization across multiple sites and campuses. They profile plans for a new multidisciplinary facility that leverages technology, regional partnerships with sister institutions and private developers to support medical, dental, nursing, pharmacology, life science education and laboratories. [AIA]

Tuesday 8:05 a.m. – 9:00 a.m.
I. The new construction cost forecast and timing decisions for AMHSC capital projects

Vermeulens
James Vermeulen – Co-CEO
Blair Tennant – Project Manager

Mounting pressure on construction costs will impact all academic, medical, and healthcare facility projects on the drawing boards and in the pipeline. Attend this session to get better pricing and more accurate budget figures. James Vermeulen and Blair Tennant deliver up-to-date construction cost forecasts based on recent Congressional spending cuts, commodity prices, and cost data from more than 100 projects. Using analyses of equities, GDP, and construction labor markets, they illustrate regional construction pricing targets for the next two years. They also demonstrate bid and purchasing strategies that lock in costs and reduce risk. [AIA]

Monday 1:15 p.m. – 2:10 p.m. | Tuesday 11:50 a.m. – 12:45 p.m.

J. Capital project planning for unknown occupants: Aligning research, academic program, and financial goals

HOK
Tom E. Thomas, AIA, LEED AP – Senior Vice President, Director of Science + Technology
Chirag Mistry, AIA, LEED AP – Associate Laboratory Planner
University of Florida
Frank Javaheri – Senior Project Manager University of Florida Facilities, Planning and Construction

This session answers the question: “How can facilities, financial, and academic program planning goals be realized when future facility occupants are unknown and academic and research programs are only speculative?” Here session leaders illustrate alignment strategies, results, and lessons learned from development of University of Florida’s Research and Academic Center at Lake Nona. They profile stakeholder requirements for groups spanning pharmacy, aging studies, research, education, and healthcare, and they detail rationales and decision making on space allocation, flexibility and adaptability, collaboration, and recruitment features which shaped the first capital construction program. [AIA]

Tuesday 10:40 a.m. – 11:35 a.m.

K. Modular construction for efficiency-driven, technically sophisticated research and clinical care projects at lower cost

Skanska USA Building, Inc.
Andrew Quirk – Senior Vice President National Director – Skanska’s Healthcare Center of Excellence
Dean Poiulluci – Senior Vice President – Preconstruction

Modular construction offers three big advantages for today’s demanding project environment: reduced construction timelines, faster facility commissioning, and cost efficiency. Session leaders profile the use of modular construction to deliver research and clinical care facilities which include sophisticated laboratories, technology-rich patient rooms, and supporting infrastructure. They set out the owner’s competitive advantage, CapEx and OpEx cost targets that drive modular construction decisions, and planning and management techniques required to make it happen. They demonstrate how off-site construction, assembly, and testing of critical building infrastructure systems delivers project safety, sustainability and value outcomes for technically complex facilities. [AIA]

Monday 11:15 a.m. – 12:10 p.m. | Tuesday 1:45 a.m. – 2:40 p.m.

L. Building commissioning: A value-adding alignment tool for academic, capital, and operating requirements

WSP Flack + Kurtz
Mark Warren – Senior Vice President
Scott Petit – Associate
University of Massachusetts Medical School
John Baker – Associate Vice Chancellor of Facilities Management

Get ahead of competitive, capital, and operating cost pressures by delivering facilities that will be academically, operationally, and financially sustainable for the entire building life. Building commissioning is an enabling and integrating process here, and session leaders reveal new technology and tools being used to commission more efficiently: Building Information Modeling (BIM), processes that integrate and merge data and documents into BIM, the use of VELA systems project tracking, and web-based commissioning systems. They illustrate the results in terms of lower operating cost, academic program responsiveness, and management capability including real-time feedback on overall building performance. [AIA]

Tuesday 8:05 a.m. – 9:00 a.m.
**M. New requirements for high tech core facilities: Shared resources, space, technology, capital costs**

**HOK**
Randy Kray, AIA – Senior VP Science + Technology, Director of Programming and Planning  
Chirag Mistry, AIA, LEED AP – Associate, Laboratory Planner  
**JE Dunn Construction**  
Kevin Brettmann – Director of Science and Technology

High tech core facilities provide leading-edge research capabilities and a competitive recruitment advantage for academic medical centers, but they also have demanding space and capital requirements that must be planned for if they’re going to pay off. Session leaders examine recent core planning and design trends that are challenging the status quo, and set out what AMC’s can do to optimize sharing opportunities, mitigate risks and achieve desired research outcomes. They detail planning particulars for cGMP, clean room, informatics, clinical, animal facilities, multi-function, and diagnostic cores, what it takes to deliver and support them, and the clinical and research program payoffs for each.

*Monday 11:15 a.m. – 12:10 p.m.*

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**N. 10-year master plan case study: Full implementation delivers a modern academic healthcare campus**

**Payette**  
Leon Drachman, AIA – Principal  
**Penn State Milton S. Hershey Medical Center**  
Gil S. Pak, MHA – Operations Director, Department of Pediatrics  
Alfred Craig Hillmeier, MD – Professor and Chair of Pediatrics, Medical Director of Penn State Children’s Hospital

This session dissects the fully implemented 10-year master plan for the Penn State Hershey Medical Center and identifies key decisions that transformed a 1960’s pastoral campus into a modern, poised-for-growth world-class academic healthcare institution. Session leaders examine critical components of the master plan and reveal lessons learned that can be applied to planning processes at suburban campuses or dense urban mega structure sites. They profile growth and density targets, physical connectivity options, resource-sharing strategies, stress on infrastructure, and institutional identity. They highlight collaboration solutions for medical staff, researchers, medical students, patients and their families.

*Monday 2:25 p.m. – 3:20 p.m. | Tuesday 1:45 a.m. – 2:40 p.m.*

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“The entire conference way surpassed my expectations. It is very easy to see why veteran attendees rave about the value of Tradeline conferences.”

**Nicholas Benson, MD, MBA**  
Vice Dean, Brody School of Medicine and Medical Director  
East Carolina University Physicians

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How to Register:

Conference Registration Fees
Payment must accompany registration to receive early discount.

$1690 single registration with payment by 9/20/13
$1890 single registration after 9/20/13

Registration fee includes:
All general sessions, selection of forums, a dessert and light fare reception, two lunches, one breakfast, a wine and hors d’oeuvres reception, refreshments, and a conference workbook guide. Presentations will be made available for download to attendees.

Team Discounts!
Save an additional $150 per person for groups of 2 or more from the same organization. For groups of 5 or more, please call Tradeline for additional discounts available.

Pre-Conference Training
Fundamentals of Space Planning and Space Management
$1040 Stand-alone course
$900 with full conference participation

Facility Tour
Lake Nona Medical City
$25 Transportation fee

Hotel and Travel Information:

Room Reservations
Tradeline has reserved a block of sleeping rooms for this event at the Gaylord Palms Resort Hotel for registrations received by September 27, 2013. Tradeline will handle and confirm room reservations [based on availability] according to your instructions on the registration form.

After September 27 please call Tradeline for room availability.

Changes: All room reservations and changes must originate through Tradeline, Inc. to obtain the special rate. If you contact the hotel directly, you may be informed that they are sold out, or you may be charged a higher rate.

Room Rate
The discounted room rate for this event is $180/night, single or double occupancy. A limited number of government per diem rate rooms are available to U.S. Federal Government employees.

This is a non-smoking hotel.

Room Payment
Tradeline does not accept payment for room reservations. Hotel charges are paid to the hotel directly upon checkout.

Travel Information
Airport-to-Hotel Transportation
The Gaylord Palms Resort is just 20 mins. from Orlando International airport. Taxi service is available curbside at the airport. Private car and shuttle service can be arranged for a fee through Mears Transportation at (407) 423-5566 or www.mearstransportation.com.

Disney Parks and Discounted Tickets
Located just 1.5 miles from the front gate of Walt Disney World®, The Gaylord Palms offers complimentary shuttle service to all Disney Parks. Tradeline attendees may purchase specially priced theme park tickets by calling 407-566-5600 or at www.mydisneymeetings.com/tl13. Please note the cut-off date for advance purchase savings is October 20, 2013. After this date tickets may be purchased at the Gaylord Palms Resort Concierge desk or at the park gates at full price.
1. Please Type or Print Clearly (or register online at www.TradelineInc.com/AMHSC2013)

- Conference registration is not complete until confirmed by Tradeline, Inc.
- Please confirm airline reservations only after confirmation of registration.
- Only one registrant per form.

Name ____________________________________ First Name for name badge ______________
Title/Position __________________________________________________________________
Institution ____________________________________________________________________
Address _________________________________________________ M/S _________________
City_____________________________ State _________________ Zip Code ______________
Country _________________________ Phone __________________ Fax _______________
Attendee Contact Email __________________________________________________________
Alternate Contact Email __________________________________________________________

2. Register with payment before Sept. 20 and save $200!

- Single Registration
  - Full price: $1,890
  - Team Registration Discount*: $1,540/Attendee

*Name of other team registrant(s) ____________________________________________________

3. Conference Add-Ons:

- Sunday; October 20, 2013
  - Fundamentals of Space Planning and Space Management
    - $1040
    - $900 with registration to the full 2 day conference October 21-22

- Wednesday; October 23, 2013
  - Site Tour
    - $25 - Lake Nona Medical City

4. Select a Method of Payment

To receive early discount, payment must accompany registration. Payment or P.O. # must be received by conference date in order to attend.

- Visa □ Mastercard □ AmEx □ Name on Card ____________________________
- Card # ___________________________________ Exp. Date_________ Security Code _______

Billing Address: ________________________________________________________________
(If different from above)
□ CHECK: Make payable to TRADELINE, INC. Check # ____________________________
□ INSTITUTIONAL P.O. number (not eligible for early discount)________________________

5. Hotel Reservations

Please do not call the hotel directly. The special room rate below is available at The Gaylord Palms Resort Hotel through Tradeline only.

- Yes, please reserve a room for me. Arrival Date: ____________ Departure Date: ____________
- Single occupancy ($180/night +14% room tax) □ Double occupancy ($180/night +14% room tax)
- Government Rate ($77/night at press time) – A limited number of rooms are available for U.S. government employees.

Special Requests*: ______________________________________________________________

- No, I will not require a hotel reservation.

Policy on Cancellations, Changes and Refunds: All cancellations and changes to registrations must be received by Tradeline, Inc. in writing. You may make substitutions at any time; please notify us as soon as possible. Full refunds given for cancellations received 14 days or more prior to the event. A $250 service fee will be charged for cancellations received between 14 and 6 days prior. No refunds will be given within 5 days of the event.

Register Now!

www.TradelineInc.com/AMHSC2013
Register with payment by Sept. 20 and Save $200

*All requests will be honored based upon availability at hotel upon time of arrival. Tradeline will inform the hotel of your preferences but cannot guarantee any special requests.

All room reservations are guaranteed. For changes or cancellations, please notify Tradeline at least 72 hrs. prior to your scheduled arrival. No-shows and cancellations within 72 hours of arrival are subject to a charge equal to one night’s stay.
Register Now!

www.TradelineInc.com/AMHSC2013

Register with payment by Sept. 20 and Save $200

TRADELINE 2013 Conferences

▶ The 2013 International Conference on Biocontainment Facilities
  March 18-19 • San Diego, California • Hilton San Diego Bayfront

▶ The 2013 Lean Facility Lifecycle Conference
  April 8-9 • San Diego, California • Hilton San Diego Resort

▶ The 2013 International Conference on Research Facilities
  May 9-10 • Boston, Massachusetts • Westin Copley Place

▶ Space Strategies 2013
  October 7-8 • Scottsdale, Arizona • Hyatt Regency

▶ Academic Medical and Health Science Centers 2013
  October 21-22 • Orlando, Florida • Gaylord Palms Resort

▶ College & University Science Facilities 2013
  October 28-29 • Boston, Massachusetts • Westin Copley Place

▶ Animal Research Facilities 2013
  November 18-19 • Washington, D.C. • J.W. Marriott Pennsylvania Avenue