DESIGNING STEM FACILITIES FOR 21ST CENTURY LEARNERS

February 24 - 26, 2014
San Antonio, TX

http://eypaedesign.com
http://www.rfd.com
OVERVIEW

With 40% of undergraduates dropping their pursuit of a STEM degree prior to graduation, it is crucial that institutions do all they can to optimize their STEM academic experience. Updating your teaching and research facilities to meet the need of 21st century students is a key component to improving the completion rate of this student population.

How exactly has the STEM academic experience evolved, and why must your facilities reflect these changes? Join us to learn, and see firsthand, how a responsive 21st century research and academic facility can both nurture STEM interest and innovation on your campus and boost the STEM academic mission of your institution.

LEARNING OUTCOME

After attending this conference, you will be able to build the framework for a 21st century STEM facility on your campus.

BRING YOUR TEAM AND SAVE!

We know that critical issues and challenges require the input and support of many campus stakeholders. To help make it possible for your team to attend, when 3 members of the same institution register, a 4th registration is free.

WHAT YOU WILL LEARN

This hands-on event will provide you with conversation and intentional working sessions devoted to STEM facility design. Attendees will:

→ Discuss pedagogy related to the 21st century STEM learner
→ Explore practices in modern lab design
→ Dissect funding considerations for STEM projects
→ Visit a newly designed STEM facility
CAMPUS TOUR: TRINITY UNIVERSITY’S CENTER FOR THE SCIENCES AND INNOVATION

Participants will visit Trinity University to see firsthand how forward thinking professors in nine departments of science, mathematics, and engineering partnered with architectural counterpoints to design a facility that advocates 21st century breakthrough discoveries both interdisciplinary and entrepreneurial in nature.

WHO SHOULD ATTEND

Bring your team of STEM faculty, facilities directors, campus and capital planners, academic leadership, project managers, campus architects, sustainability leaders, and chief financial officers to benefit from shared conversation around how new or renovated STEM facilities can positively impact the academic mission of your institution.

AGENDA

MONDAY, FEBRUARY 24, 2014

DAY 1: DESIGNING FOR THE 21ST CENTURY STUDENT

Beginning with an engaging overview of 21st century student needs and expectations, Day 1 will move quickly from the conceptual to the practical as you begin to map out how to implement modern pedagogical theory in your facility design.

12:00 - 1:00 p.m.  Registration

1:00 - 1:15 p.m.  Opening comments and introductions

1:15 - 3:00 p.m.  Engaging the 21st Century STEM Learner

Today’s STEM student seeks to be prepared for a world characterized by constant innovation and breakthrough. Subsequently, STEM pedagogical approaches have evolved more than, perhaps, any other on campus, and responsive STEM facilities begin with conversation around this changing face of STEM student needs. In this session, attendees will:

- Discuss the evolution of STEM pedagogy
- Apply current pedagogy to STEM learning space considerations
- Examine how they are currently meeting the needs of students on campus

3:00 - 3:15 p.m.  Break
AGENDA

MONDAY, FEBRUARY 24, 2014 (CONTINUED)

3:15 - 5:00 p.m.  Designing Modern Lab Spaces
This session will allow attendees to apply considerations of modern STEM learners into a critical component of any STEM facility—the academic lab. Marked by flexibility, modern STEM labs are equipped to be both multidisciplinary and transparent. Knowing that, how do technology, teaching space, and architectural aesthetics contribute to an engaging learning space for the modern STEM student? Attendees will hear from an experienced lab designer about the innovative and successful approaches colleges and universities are utilizing to create exciting opportunities for their students.

5:00 - 6:00 p.m.  Networking reception (included in registration fee)

TUESDAY, FEBRUARY 25, 2014

DAY 2: CONSIDERATIONS FOR A COMPLETE STEM FACILITY
Building on Day 1, the focus of Day 2 will be to walk through how to make STEM facility design a campus-wide venture, from design to grand opening. Beginning with a discussion on how to meaningfully incorporate faculty in the design process, today’s sessions will more broadly walk through the appropriate steps in ensuring a successful design and construction process.

8:00 - 9:00 a.m.  Continental breakfast (included in registration fee)

9:00 - 10:15 a.m.  Creating STEM Collaboration: The Role of Faculty in Facility Design
What important communication steps take place between facility designers and academic faculty in any successful STEM building or renovation project? What critical points must be addressed to ensure that curricular and professional needs are met for all faculty in an integrated academic facility? This session will address these critical questions through a successful partnership between an architect and institutional faculty member.

10:15 - 10:30 a.m.  Morning break

10:30 a.m. - 12:00 p.m.  STEM Facility Case Study
Hear how one institution navigated the complexities of campus politics, responsive architectural design, and overall funding to complete a worthy on-campus STEM facility for its students. From initial visioning conversations to finished project, this presentation will detail perspectives in maintaining the academic vision of the institution while dealing with inevitable hiccups in the planning and design process.

12:00 - 1:00 p.m.  Lunch (included in registration fee)

1:00 - 4:15 p.m.  Campus Tour: Trinity University’s Center for the Sciences and Innovation
Participants will visit Trinity University to see firsthand how forward thinking professors in nine departments of science, mathematics, and engineering partnered with architectural counterpoints to design a facility that advocates 21st century breakthrough discoveries both interdisciplinary and entrepreneurial in nature. Breaking ground in 2010, Trinity University invested $127 million in a facility that combines new and renovated portions and spans 280,000 sq. feet.
AGENDA

TUESDAY, FEBRUARY 25, 2014 (CONTINUED)

4:15 - 5:15 p.m. Stakeholder’s Panel
Join us for an open and transparent discussion that walks through design choices considered, challenges overcome, and opportunities created for Trinity University through this facility. Included in the panel will be professors, students, facilities staff members, architects, and other relevant campus personnel.

5:30 p.m. Bus returns to hotel

WEDNESDAY, FEBRUARY 26, 2014

DAY 3: RESOURCING YOUR CAMPUS PROJECTS
Uniting the content of our first two days, Day 3 will outline resourcing considerations for institutions ready to embark on large-scale campus STEM efforts.

8:00 - 8:45 a.m. Continental breakfast (included in registration fee)

8:45 - 9:45 a.m. Debrief Conversation of Campus Tours
The morning will begin with a conversation about the site visit from the day before. Focusing on the needs of 21st century STEM students, we will discuss successes and ongoing challenges related to potential STEM student engagement as witnessed through the tour.

9:45 - 10:00 a.m. Morning break

10:00 - 11:00 a.m. Buy-in and Funding: Launching Your Successful STEM Project
Presentation: This presentation will focus on gathering the right partners and avoiding certain pitfalls to ensure a transparent and timely process throughout the funding of your project.

11:00 - 11:45 a.m. Working Session: Action Planning
After hearing and participating in discussion about the major considerations in new STEM facilities, attendees will begin to clearly outline next steps on campus. Using each session as a benchmark, attendees will highlight key takeaways for their campus and create a working timeline for attaining each goal.

11:45 a.m. - 12:00 p.m. Q&A panel and closing comments
AGENDA

WEDNESDAY, FEBRUARY 26, 2014 (CONTINUED)

POST-CONFERENCE WORKSHOP: STEM FACILITIES MANAGEMENT – CHALLENGES AND OPPORTUNITIES
The conclusion of the conference will be a post-conference workshop focused on discussing the unique challenges and opportunities a new STEM facility poses for any facilities management staff.

12:30 - 1:30 p.m.  Lunch for post-conference attendees (included in workshop registration fee)
1:30 - 4:00 p.m.  STEM Facilities Management - Challenges and Opportunities
For many on-campus professionals, opening a new STEM facility is only the beginning. Operating a 21st century STEM facility on a day-to-day basis requires complex training and a developing skillset. The challenges of navigating complex HVAC systems, modern STEM technology, and lab flexibility are only a few of the new issues any STEM facilities manager will have to undertake. Of course, with each challenge comes opportunity for greater energy efficiency and overall facility capability as well. Join a team of on-campus personnel led by a certified facility manager as they walk you through critical considerations and questions you will need to explore before you begin your planning on campus.

4:00 - 4:30 p.m.  Post-conference workshop wrap-up
INSTRUCTORS

**JEANNE NARUM / Principal**

Learning Spaces Collaboratory

Since 2012, as founding principal of the Learning Spaces Collaboratory (LSC), Jeanne Narum’s professional focus is on gathering, distilling, and promoting best practices in visioning, planning, and assessing undergraduate learning spaces. She orchestrates LSC activities, including LSC webinars, web postings, and grant-funded initiatives. Currently, with support from NSF, a working group within the LSC is developing a prototype guide for institutional teams involved in various stages of shaping and reshaping learning spaces.

Her role as learning spaces consultant is to facilitate iterative on-campus conversations among stakeholders that: a) explore at common language for shaping the vision of the project; b) establish project goals that reflect that vision; c) outline strategies to implement toward achieving those goals in the planning process; and d) lead to action by working groups of stakeholders that produce data and information to inform the programming process.

From 1989 – 2010, Jeanne was the founding director of Project Kaleidoscope (PKAL), a position that provided opportunities to work with and learn from leaders from a wide range of STEM disciplines and academic institutions.
INSTRUCTORS

KIP ELLIS, AIA, LEED AP / Lead Designer
EYP Architecture & Engineering

Kip Ellis has more than 20 years of experience as a designer and planner who specializes in academic environments. His specialty is the design of sophisticated science buildings that promote innovative learning while celebrating each institution’s unique culture. Kip has provided strategic, creative contributions to many of EYP’s undergraduate science education projects, as well as thought leadership on a significant number of planning and feasibility studies. He is an author and frequent lecturer on the special challenges and issues of designing for higher education and is recognized as a national leader in advancing Science Education and Research in the United States. He is a frequent presenter at events for Project Kaleidoscope, the Society for College and University Planners (SCUP), Labs 21, and Tradeline.

Kip’s award-winning projects include the Unified Science Center at Swarthmore College and the Integrated Science Center at the College of the Holy Cross, recipient of both a Boston Society of Architects Design Honor Award and the New England Regional Chapter of the American Institute of Architect’s Design Honor Award.

CHARLES KIRBY, FAIA, LEED AP / Academic Planning & Design Expert
EYP Architecture & Engineering

Charles Kirby has more than three decades of experience in the design of college and university science facilities with an emphasis on undergraduate and graduate teaching and research and distance learning facilities. His focus on academic environments reflects a deep passion for creating inviting spaces that encourage interdisciplinary collaboration and seamlessly integrate technology to support the latest pedagogies. His designs reflect each institution’s unique culture and put science on display, demonstrating the excitement of scientific discovery to majors and non-majors alike.

Charles’ award-winning projects include the Unified Science Center at Hamilton College and the Unified Science Center at Swarthmore College. He is an author and frequent lecturer on the special challenges and issues of designing for higher education at Tradeline, the Society of College and University Planners (SCUP), and Project Kaleidoscope. His participation in the national dialogue advances the evolution of science learning and teaching environments.
INSTRUCTORS

TONI LOIACANO, AIA, LEED AP / Laboratory Planning Expert
EYP Architecture & Engineering

Toni Loiacano has more than 10 years of design experience in architecture and engineering, specializing in programming and planning science teaching and research laboratories. Prior to joining EYP, her projects included the College of Medicine at Central Michigan University, the Biomedical Technology Center and Schoolcraft College, and National Superconducting Laboratory at Michigan State University.

A published author and sought-after lecturer, Toni shares her expertise through presentations at conferences hosted by Project Kaleidoscope, No Name, Labs 21, Tradeline, and Association of American Colleges and Universities.

LLOYD E.L. FISK, AIA LEED AP / Laboratory Consultant
Research Facilities Design

Lloyd, a laboratory consultant at RFD, is a worldwide leader in the design of science facilities for education, research, and testing. In his 19 years of practice, Mr. Fisk has been involved with projects across the US and abroad. These include facilities such as the MASDAR Institute in Abu Dhabi – a research institute focused on sustainable energy; the Hamad Medical City Translational Research Institute in Doha, Qatar; and the CHA Health Systems Biomedical Research Complex in Seoul, South Korea. Lloyd’s current work includes the National Drinking Water Laboratory in Doha and a stem-cell-therapy facility at the University of Iowa. Within the realm of undergraduate STEM facilities, Mr. Fisk’s projects include science buildings at St. Vincent College in Latrobe, Pennsylvania; Niagara University in Niagara Falls, New York; the United States Military Academy at West Point, New York; the University of Hawaii West Oahu campus; and the Georgia Institute of Technology in Atlanta. Mr. Fisk has made presentations on laboratory design issues at many conferences in the US as well as in Korea and Brazil. He sits on the Board of Directors of the Scientific Equipment and Furnishings Association (SEFA) and is active in the San Diego chapter of the AIA.
INSTRUCTORS

RICHARD M. HEINZ, FAIA, NCARB, LEED AP / Principal & Vice President
Research Facilities Design

Richard has enjoyed a 28 year career with RFD, a firm specializing exclusively in the programming and design of laboratory facilities for institutional, industry, and governmental clients. Based in San Diego, RFD has consulted on more than 1000 projects in 49 states throughout the U.S. and around the world. Rick’s primary career focus has been on undergraduate science facilities for both public and private institutions such as: Agnes Scott College, Colgate University, Denison University, Grinnell College, Hope College, Iowa State University, Kansas State University, Minnesota State University-Mankato, Occidental College, St. Cloud State University, University of Notre Dame, University of San Diego, University of Virginia, University of Washington – Bothell, University of Wyoming, Whitworth University, and six University of California campuses.

Mr. Heinz holds a Bachelor of Architecture and Bachelor of Science in Business Administration from Kansas State University. Professional affiliations include the American Institute of Architects, Scientific Equipment and Furniture Association and Society for College and University Planning.

Rick has presented at more than 60 Science Facility conferences for such organizations as the Learning Spaces Collaboratory, Project Kaleidoscope, Society for College & University Planning, and Tradeline, Inc.
INSTRUCTORS

LESLEY BLEAMASTER, III / Science Facilities Manager, Center for the Sciences and Innovation (CSI)
Trinity University

Starting in the summer of 2013, Leslie Bleamaster, III has been working with faculty, students, facilities services, and the administrative and technical staff to coordinate support of teaching and research spaces of ten STEM departments and disciplines (Biology, Chemistry, Geosciences, Neuroscience, Physics & Astronomy, Psychology, Computer Science, Engineering Science, Mathematics, and the Animal Care and Resource Center) housed within the CSI. In addition, Leslie is responsible for the development and implementation of a new 21st century approach to department/faculty support, whereby independent department boundaries have blurred in attempts to promote, if not force, interdisciplinary collaboration.

DAVID RIBBLE / Biology Professor
Trinity University

Since 2008, David Ribble has been the lead faculty member (faculty shepherd) in charge of planning and designing the $127 million Center for the Sciences and Innovation at Trinity University. He has worked with consultants, architects, contractors, and numerous STEM departments of Trinity University in this effort. David is also a participant in Partnerships for Undergraduate Life Science Education (PULSE), a national effort to reform life science education. He regularly conducts external reviews of Biology Departments at private undergraduate institutions around the country to help them design purposeful curriculum relevant to the 21st century.

JOHN GREENE / Director of Campus Planning and Sustainability
Trinity University

John Greene has been in a leadership position within a higher education facilities department for 37 years, nearly all with Trinity University. He has been active member within APPA: The Association of Higher Education Facilities Officers; serving on its international board of directors, president of an eight-state regional association, member of national/regional committees and host of regional/international meetings. He is also an active member of the International Facilities Management Association. At Trinity he has led the capital improvement efforts that have transformed the physical campus over the past three decades, culminating in the Center for the Sciences and Innovation, from its initial conception to reality.
HOTEL RESERVATIONS

Hyatt Regency San Antonio
123 Losoya Street
San Antonio, TX 78205

The conference hotel has sold out for the contracted room block dates.
We have contracted a room block at a nearby property, The Menger Hotel. The Menger Hotel is less than a 5 minute walk to the Hyatt Regency San Antonio. Please call soon to book your reservation!

The Menger Hotel
204 Alamo Plaza, San Antonio, TX 78205
(210) 223-4361
$139/night

Additional Information:

With a spectacular location directly on the River Walk that overlooks the historic Alamo mission, Hyatt Regency San Antonio offers luxurious accommodations and a full range of modern services and amenities for your comfort and convenience. We are surrounded by a large variety of restaurants, bars, clubs, shops and tourist attractions.

Airport: San Antonio International Airport

Taxi - $24 one-way per car
Seating and Luggage: 6 passengers / amount of luggage depends on size of bags
Pick Up: Lower level of the airport

SATRANS Airport Shuttle - $19 one way
REGISTRATION FEES

Your registration fee includes: Full access to all conference sessions and materials, access to the networking reception on Monday, breakfast and lunch on Tuesday, and breakfast on Wednesday, as well as refreshments and snacks throughout the conference.

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| __ # of attendees | __ # of attendees | __ # of attendees |

Total_________________  Total_________________  Total_________________

ATTEND AS A TEAM – remember, when 3 members of the same institution register, a 4th registration is free.

EARLY BIRD PRICING
Postmarked on or before February 7, 2014. For registrations postmarked after February 7, 2014, an additional $100 fee per registrant applies.

REFUND/CANCELLATION POLICY
Refunds will be issued only if cancellations are received in writing by November 29, 2013. A $100 processing fee will be assessed. After November 29, 2013 a credit (less $100 processing fee) will be issued. The credit will be valid for 12 months and can be used toward any future conferences, Web conferences, audio proceedings, or Web conference archives. In case this event is cancelled, Academic Impressions’ liability is limited to a refund of this registration fee only. Purchasing questions, please contact us at 720.488.6800.

By submitting this registration form, you agree to the terms and conditions of the above cancellation policy.

Visit our website to register online:

https://www.academicimpressions.com/conference/designing-stem-facilities-21st-century-learners
ACADEMIC IMPRESSIONS CANCELLATION AND REFUND POLICIES

SATISFACTION PROMISE
We want you to be satisfied with your Academic Impressions learning experience. If the program you purchased fails to meet your expectations, please contact us within 30 days and let us know. We’ll credit the full amount you paid toward another AI program that may better fit your needs.

CONFERENCES
For in-person conferences, substitute registrants are welcome and may be named free of charge at any time. If you cancel 8 weeks or more prior to the first date of the conference, you will receive a full refund, less a $100.00 service charge per attendee.

If you cancel within 8 weeks of the first date of the conference, you are not entitled to a refund. However, as a courtesy, we will allow you to apply your payment, less the service charge, toward a future purchase within one year from the date you cancel. Your payment is transferable to another person from your institution if you wish.

Please note that if you do not attend and you do not contact us in advance to cancel as described above, you are responsible for the entire payment. In case this event is cancelled, Academic Impressions’ liability is limited to a refund of the registration fee only.

WEBCASTS AND ONLINE COURSES
For webcasts and online courses, substitute registrants are welcome and may be named free of charge at any time prior to the day of the webcast. When available, you may also switch your webcast or online course order from a live connection to an on-demand download or CD recording (and vice versa) at no additional cost (shipping charges will apply to CD Recording orders outside the U.S. or Canada).

If you cancel 8 weeks or more prior to the webcast or online course date, you will receive a full refund, less a $75.00 service charge. If you cancel within 8 weeks of the webcast or online course date, you are not entitled to a refund. However, as a courtesy, we will allow you to apply your payment, less the service charge, toward a future purchase within one year from the date you cancel. Your payment is transferable to another person from your institution if you wish.

Please note that if you do not login to view the webcast or online course and you do not contact us in advance to cancel as described above, you are responsible for the entire payment. In case this event is cancelled, Academic Impressions’ liability is limited to a refund of the registration fee only.

RECORDINGS, ON-DEMAND DOWNLOADS, MONOGRAPHS AND OTHER PUBLICATIONS
All sales are final. No cancellations or refunds provided.
CONFEREN CE REGISTRATION INFORMATION

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IF THIS CONFERENCE PARTICIPANT HAS ANY DIETARY OR ACCESSIBILITY NEEDS, PLEASE LIST THEM IN THE SPACE BELOW. WE WILL DO OUR BEST TO ACCOMMODATE THESE NEEDS.

How did you hear about this event? (email from AI, ACPA, colleague forwarded email, The Chronicle, etc.)  

If you would like us to send a copy of your registration confirmation or receipt to someone else, please complete this section

ADDITIONAL CONTACT INFORMATION

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PAYMENT METHOD

We accept Visa, MasterCard, and American Express credit cards. To pay by check, include the check with this form or select the “invoice me” option. Fax form to 303.221.2259 or mail form along with payment to: Academic Impressions, 4601 DTC Blvd., Ste. 800, Denver, CO 80237

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Name on Card                      Account Number

Billing Address                   Billing City      Billing State

Billing Zip Code/Postal Code      Exp. Date        Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)

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FREE HIGHER ED NEWS AND ANALYSIS

Each conference registration includes a subscription to Higher Ed Impact, a free industry scan of news, trends, and research on higher education, delivered in an easy-to-scan email. Higher Ed Impact (HEI) includes:

☐ HEI: Daily Pulse - impactful news, trends, and practices, sent daily
☐ HEI: Weekly Scan - the week’s most critical news, with analysis of top stories and trends, sent on Fridays
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List the names of the registrants you’d like to sign up:

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