Facilities Tours

Higher Ed Facilities Tour Route

01/24/2012

10:00 am - 3:00 pm
Prerequisite: None

FTHE1:

University of Central Florida, College of Medicine

Drew Krecicki, AIA, Associate and Project Manager, HuntonBrady Architects

Session Description:

The University of Central Florida, College of Medicine won the AIA CAE Award of Merit. The tour will be accompanied by the Project Manager, Drew Krecicki from HuntonBrady Architects. Mr. Krecicki will be available to discuss the planning and execution of the construction project, as well as answer any questions from tour attendees. This facility tour will focus on the sustainable design component during the development of the University of Central Florida's College of Medicine. The piazza's configuration provides a well contained outdoor space facing north and a reference point from any spot in building's main circulation concourse. Inside, the circular configuration of the interior concourse allows for visual connection from virtually all levels within the building. The architects were mindful of sustainability and designed the College of Medicine for Silver LEED Certification from the U.S. Green Building Council. Green design components will result in a 64 percent reduction in water use for irrigation, a 48 percent reduction in indoor water use, and a 21 percent reduction in energy use. Other sustainable features include low-flow restroom fixtures extensive use of natural daylight, reflective roofing to reduce cooling costs, preferred parking for hybrid and fuel efficient vehicles, room occupancy sensors for lighting, native vegetation and water efficient landscaping, regional materials made with recycled content, low VOC paints, and much more.

Learning Objectives:

1.) Discuss the sustainable design practices implemented in the building process. 2.) Understand how striving for Silver LEED Certification influenced the design of the facility. 3.) Determine which sustainable design practices are suitable for attendee's individual design criteria. 4.) Discuss emerging green incentives such as preferred parking for hybrid and fuel efficient

vehicles, reflective roofing, sensors for lighting etc.

AIA Continuing Education: 1 LU/HSW/SD GBCI Continuing Education: 1 hour

FTHE2:

Valencia College, University Center

Nathan Butler, AIA, LEED AP, Principal, C.T. Hsu + Associates

Session Description:

This tour focuses on the design of the newly completed University Center at Valencia College. C.T. Hsu + Associates took many design components into consideration such as daylight use, a traditional front porch area and an inviting atrium for students and instructors. Organized along a linear spine element, with classroom pods that rotate away in increasing degrees, the design celebrates the unity of separate systems found in shared spaces. The spine connects directly to the campus, materially and organizationally. The spine's brick veneer and rhythmic fenestration directly refer to the vocabulary of the existing campus. The three classroom pods express a new language that primarily responds to environmental considerations. Curtain wall maximizes their north and south daylight while nearly solid concrete panels block harsh western sunlight. An open atrium bonds the pods with the "spine" to create a grand space for students and faculty to gather informally. This area exposes building systems to provide an interactive, "sustainability-in-action" environment for students. As classroom pods rotate away from the spine, the atrium space increases in volume to spawn an expansive "front porch" facing the existing campus. This rotation also allows diffuse daylight to flood the atrium, creating a very light and welcoming environment. An outdoor plaza in front of the facility, and small scale exterior spaces for outdoor dining or quiet study between the classroom pods, complement the interior experience of this integrated educational facility.

Learning Objectives:

1.) Discuss the "spine" and "pods" element of the design as it relates to the unity of separate systems found in shared spaces. 2.) Discuss the extensive use of daylight in the facility, including the use of cutains and concrete walls to obtain the most preferable daylight. 3.) Understand the "sustainability-in-action" environment that was created for the students. 4.) Learn how the atrium, "front porch," and outdoor plaza all work together to create a welcoming and open facility design.

AIA Continuing Education: 1 LU/HSW

FTHE3:

Valencia College, Special Events Center

Tommy Hagood, AIA LEED AP, Associate and Project Manager, HuntonBrady Architects

Mauriizio Maso, AIA, Design Principal, HuntonBrady Architects

Session Description:

This facility tour examines how building for a LEED Gold certification influenced the design of this multi-use building. Designed by HuntonBrady Architects of Orlando, the 17,000 square foot building is located on the college's West Campus at 1800 S. Kirkman Road. The building serves as an education facility for the college's Culinary Management Program led by Chef Pierre Pilloud, CEC, its architectural program, and as a flexible special events center for college functions and community gatherings. It can seat over 400 people theatre-style. While culinary students sweat over perfecting crepes suzette in its commercial-sized industrial kitchens, the education building is working in its own way to conserve energy and promote a healthier work and study environment for its inhabitants. Most aspects of the building were designed with energy conservation in mind, including: 1. A rainwater collection system that filters water from the roof and stores it in an underground cistern for use in flushing toilets in the facility. 2. A large overhang over the south porch provides a covered exterior space facing the lake and protects the glass at concourse space. 3. Ample windows which allow for daylight and views in 90 percent of the building 4. All interior spaces benefit from controlled daylight 5. Landscaping with native plants that are drought tolerant which reduces irrigation usage. 6. High performance glass and materials containing recycled content. 7. Reflective roofing materials and crushed limestone walkways that reduce heat island effects 8. Regional brick, which cuts transport emissions 9. Recycled construction steel 10. Sealants, paints and carpeting certified as low-emission The college is pursuing LEED gold certification from the U.S. Green Building Council (USGBC). LEED certification is bestowed by the U.S. Green Building Council and recognizes building performance in five key areas: sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality.

Learning Objectives:

1.) Discuss how building for a LEED Gold Certification influenced the design of the Special Events Center. 2.) Understand how the building was designed to maximize energy conservation, including a rainwater collection system, landscaping with natural vegetation, recycled construction steel and others. 3.) Discuss how using low emission paints, sealants and carpeting create better indoor air quality. 4.) Determine which green and sustainable designs used in the Special Events Center can be incorporated into individual attendees design needs.

AIA Continuing Education: 1 LU/HSW/SD GBCI Continuing Education: 1 hour