



**The State of Michigan on Sustainability:
FULL S.T.E.A.M.* AHEAD!**

7th Annual SOS Conference Celebrates Engineers & Entrepreneurship Week

**Science, Technology, Engineering, Entrepreneurship, Education, Art, Architecture, Mathematics and Management*

For more information and to register: www.sos2011.ltu.edu

Get on board and charge FULL S.T.E.A.M. AHEAD with the seventh annual Seminars on Sustainability (SOS) conference. All events for this year's conference **SOS2011: The State of Michigan on Sustainability** will be held February 21-25, 2011, during Engineer's and Entrepreneurship Week, at Lawrence Technological University and Engineering Society of Detroit's Headquarters in Southfield, Michigan. Conference goals include learning about and assessing sustainability efforts in Michigan in the areas of S.T.E.A.M. (Science, Technology, Engineering, Entrepreneurship, Education, Art, Architecture, Mathematics, and Management).

Week-long activities will feature the American Society of Heating, Refrigerating and Air Conditioning Engineers, ASHRAE Learning Institute's (ALI) courses, a lecture open to the public, awards banquet and seminars.

"With the State of Michigan's plans to incorporate ASHRAE/ANSI/IESNA Standard

90.1-2007 into code in March 2011, these courses provide a unique opportunity for code officials, building owners and operators, professionals, educators and students to obtain a first-hand knowledge of this nationally adopted energy building standard", remarked Lawrence Tech Professor Filza H. Walters, chair of the Professional Development Committee for ASHRAE and director of the first Architectural Engineering program in Michigan.

"This year's conference includes something for everyone who is interested in expanding their knowledge about sustainability, energy efficiency and entrepreneurship activities in our state", commented associate professor Janice K. Means, PE, of Lawrence Tech, current chair of the Engineering Society of Detroit's Affiliate Council, and committee chair for the conference.

Information, registration, and sponsorship opportunities: www.sos2011.ltu.edu



SUMMARY OF ACTIVITIES

- Tuesday & Wednesday, February 22 and 23: *Complying with ASHRAE/ANSI/IESNA Standard 90.1-2007 and Implementing Standard 189.1-2009 for High-Performance Green Buildings* (Attendees earn 6 PDHs/AIA LUs/0.6 CEUs for each course at greatly reduced fees). Register at www.sos2011.ltu.edu.
- Tuesday, February 22: Lawrence Tech, College of Architecture and Design's *ArchiLecture* series features Professor Harry Giles from the University of Michigan.
- Thursday, February 24: Engineering Society of Detroit (ESD), *Gold Awards Banquet* will bestow honors on leaders in the areas of S.T.E.A.M. To purchase tickets visit <http://ww2.esd.org/EVENTS/2011/2011-02-24-Gold-Award.htm>.
- Friday, February 25: *SOS2011* includes seminars, tours and panel discussions to highlight current trends in energy, sustainability, entrepreneurship, manufacturing, community development and educational initiatives to rebuild Michigan and the region. Registration is now open at www.sos2011.ltu.edu.

SCHEDULE OF EVENTS

Complying with ASHRAE/ANSI/IESNA Standard 90.1-2007

Tuesday, February 22, 2011

9:00 am – 4:00 pm

*Location: Engineering Society of Detroit (ESD)
www.sos2011.ltu.edu*

Cost

This course is targeted at design professionals, code officials and building owners. ASHRAE Standards 90.1-1989, 90.1-1999, and 90.1-2001 have been the benchmarks for commercial building energy codes in the United States. The 2004 version of Standard 90.1 included significant changes from the previous versions, such as reducing the number of climate zones from 26 to 8, refining a number of HVAC provisions, improving stringency of lighting power requirements, and adding an appendix with new, more flexible rules when using 90.1 for LEED® certification. This course presents an overview of the 2004 standard, the addenda added in the 2007 version, the Standard's requirements, and methods for compliance.

Implementing Standard 189.1-2009 for High-Performance Green Buildings

Wednesday, February 23, 2011

9:00 am – 4:00 pm

*Location: Engineering Society of Detroit (ESD)
www.sos2011.ltu.edu*

Cost

This course is targeted at those persons involved in the design and operation of high performance buildings. Based on Standard 189.1-2009, Standard for the Design of High-Performance Green Buildings, this course provides the minimum requirements for the design, construction and plans for operation of high-performance green buildings. The standard and course covers new buildings and their systems, new portions of buildings and their systems, and new systems and equipment in existing buildings. The course presents the goals of establishing mandatory criteria in all topical areas, providing simple compliance options and the complement of green building rating programs for Standard 189.1.

Lawrence Tech Architecture and Design Lecture

Tuesday, February 22, 2011

7:00 pm – 8:00 pm

Location: Lawrence Technological University, Architecture Auditorium A-200

Complementary, no registration required.

The evening lecture will feature Harry Giles, University of Michigan professor and entrepreneur with HGDesign+Technology and SITUMBRA (Ann Arbor). Mr. Giles has led a team on a national award winning EPA P3 (People, Prosperity and the Planet) funded project and is researching the application of bio-composite and recyclable polymer facades in buildings. He is also the principal investigator on a PATH/NSF funded research project with a team of interdisciplinary university faculty and industry collaborators, researching technological innovations in an industrially manufactured prefabricated system for low energy, medium-rise affordable housing.

ESD Affiliate Council's, Gold Awards Banquet

Thursday, February 24, 2011

7:00 pm – 9:00 pm

Location: Shriner's Silver Garden, Southfield, Michigan

<http://ww2.esd.org/EVENTS/2011/2011-02-24-Gold-Award.htm>

Cost

Longtime Michigan resident and chairman emeritus of Albert Kahn Associates, ASHRAE's 2009-2010 Society President, Gordon Holness, PE, FASHRAE, will be honored as the 2011 Gold Award winner. Numerous other awards will be given to engineers and entrepreneurs for their distinguished services within the Affiliate Council, including Lawrence Tech professors Janice K. Means, Andy Gerhart, and Filza H. Walters.

Educational Sessions, Technical Exhibits & Tours

Friday, February 25, 2011

8:00 am – 4:00 pm

Location: Lawrence Technological University, Southfield, Michigan

www.sos2011.ltu.edu

Cost

Speakers will address all aspects of sustainability, culminating with a panel discussion on the state of sustainability in Michigan with representatives from manufacturing, business, government, and education. Attendees may also attend the Sustainability Expo of vendor and non-profit tables. Vendor and non-profit exhibits, along with award winning sustainability-related projects will be on display in the Lawrence Tech UTLC Gallery Monday, February 21 through Saturday, February 26. Attendees will have the option to purchase ASHRAE publications at reduced prices, and an all-you-can-eat lunch in the newly renovated Lawrence Tech cafeteria.

Information, registration, and sponsorship opportunities: www.sos2011.ltu.edu

Questions and suggestions: sos2011ltu@gmail.com

About the Conference:

The mission of the Seminars On Sustainability (SOS) conference is to bring together professionals, educators, entrepreneurs, students and the public on issues related to sustainable industries, educational initiatives and green communities, where collaboration, communication, innovation, service and stewardship are valued. This conference is a hallmark of Lawrence Technological University's commitment to positively impact the local community, state and region through excellence in education, leadership, and entrepreneurship.