



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 Entrepreneur's 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 an ASHRAE* Learning Institute's (ALI) course, a lecture open to the public, awards banquet, tours, exhibition and seminars.

* American Society of Heating, Refrigerating and Air Conditioning Engineers

“With the State of Michigan’s plans to incorporate ANSI/ASHRAE/IESNA Standard 90.1-2007 into code in March 2011, this course provides 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 for the ASHRAE Professional Development Committee 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,” added Associate Professor Janice K. Means, PE, LEED AP of Lawrence Tech, chair of the conference committee and chair of the Engineering Society of Detroit’s Affiliate Council.



EVENT DETAILS

FEBRUARY 21-26, 2011 (ALL WEEK):

Award winning sustainability-related projects will be on display in the Lawrence Tech UTLC Gallery
Complimentary, no registration required.

TUESDAY, FEBRUARY 22, 2011:

9:00 am – 4:00 pm

“Complying with ANSI/ASHRAE/IESNA Standard 90.1-2007” Training Course

Earn 6PDHs/AIA LUs or 0.6 CEUs at greatly reduced fees.

Location: Engineering Society of Detroit (ESD)

Register at: www.sos2011.ltu.edu

NOTE: The course comes at an opportune time for designers. The State of Michigan is incorporating Standard 90.1-2007 into code in March of 2011.

This seminar 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.

TUESDAY, FEBRUARY 22, 2011:

7:00 pm – 8:00 pm

Lawrence Tech Architecture and Design Lecture

1 AIA LU

Location: Lawrence Technological University, Architecture Auditorium A-200

Complimentary, 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.

THURSDAY, FEBRUARY 24, 2011:

7:00 pm – 9:00 pm

ESD Affiliate Council’s, Gold Awards Banquet

Location: Shriner’s Silver Garden, Southfield, Michigan

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

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.

FRIDAY, FEBRUARY 25, 2011*:

8:30 am – 4:00 pm (Check in at 8:00 am)

Educational Sessions, Technical Exhibits & Tours

Location: Lawrence Technological University, Southfield, Michigan

For more information and to register:

www.sos2011.ltu.edu

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 in the Architecture Gallery, A-210 and award winning sustainability-related projects on display in the Lawrence Tech UTLC Gallery.

Summary of Events for Engineers & Entrepreneurship Week

FEBRUARY 21-26, 2011

Sustainability Projects on Display

Location: Lawrence Tech UTLC Gallery

Complimentary, no registration required.

TUESDAY, FEBRUARY 22, 2011

Training Course

9:00 am – 4:00 pm

“Complying with ANSI/ASHRAE/IESNA Standard 90.1-2007”

Location: Engineering Society of Detroit (ESD)

Register at: www.sos2011.ltu.edu

Cost

- And -

Lecture

7:00 pm – 8:00 pm

Lecture, Lawrence Tech Architecture & Design

Location: Lawrence Technological University, Architecture Auditorium A-200

Complimentary, no registration required.

THURSDAY, FEBRUARY 24, 2011

Gold Awards Banquet

7:00 pm – 9:00 pm

Annual ESD Affiliate Council's, Gold Awards Banquet

Location: Shriner's Silver Garden, Southfield, Michigan

For more information: <http://ww2.esd.org/EVENTS/2011/2011-02-24-Gold-Award.htm>, Cost

FRIDAY, FEBRUARY 25, 2011

SOS2011 Conference, Educational Sessions, Technical Exhibits & Tours

8:30 am – 4:00 pm (Check in at 8:00 am)

Location: Lawrence Technological University, Southfield, Michigan

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

SATURDAY, FEBRUARY 26, 2011

Meet the Deans, Exhibits, Campus & Lab Tours

8:30 am – 1:00 pm (Check in at 8:00 am)

Location: Lawrence Technological University, Southfield, Michigan

For more information and to register: https://my.ltu.edu/webapps/portal/frameset.jsp?tab_tab_group_id=_19_1

*Attendees at all events may purchase the ASHRAE Greenguide,
and Standards 90.1 and 189.1 with their user's guides at special rates.*

Registration, Information, & Sponsorship:

www.sos2011.ltu.edu

Questions & Suggestions:

sos2011tu@gmail.com

Program* for SOS2011 – Friday, February 25, 2011

FRIDAY, FEBRUARY 25, 2011						
Times/Room	A-200 (ARCH. AUD.)	T429 (LEAR AUD.)	T410 (4TH FL)	T210 (UTLC GALLERY)	A210 (ARCH GALLERY)	
8:00 AM						
8:10 AM						
8:20 AM				REGISTRATION		
8:30 AM	WELCOME REMARKS <small>(VAZ, VERYSER, MEANS, WALTERS)</small>					
8:40 AM						
8:50 AM	TRANSITION	TRANSITION	TRANSITION	TRANSITION	TRANSITION	
9:00 AM	SESSION 1A: ENGINEERING EXPERIENCE INVOLVING INTELLECTUAL PROPERTY- Ken Cook	SESSION 1B: RECOVERY PARK: A PARTNERSHIP FOR A BETTER DETROIT- Gary Wozniak	SESSION 1C: NET ZERO COMMUNITIES - Constance Bodurow & Calvin Creech		GREEN EXPO	
9:10 AM						
9:20 AM						
9:30 AM						
9:40 AM						
9:50 AM						
10:00 AM	TRANSITION	TRANSITION	TRANSITION	TRANSITION	TRANSITION	
10:10 AM	SESSION 2A: A QUANTATATIVE APPROACH TO SUSTAINABILITY, LIFE CYCLE ASSESSMENT- Ashraf Ragheb	SESSION 2B: BUILDING A GREENER REGION- Amy Mangus & Kelly Karl	SESSION 2C: SUSTAINABLE SOLID WASTE DEVELOPMENTS- Kevin Foye	TOUR 2D: Alt E Lab, 10kw PV, Taubman, UTLC, Make Lab <small>(Depart from UTLC Gallery)</small>	GREEN EXPO	
10:20 AM						
10:30 AM						
10:40 AM						
10:50 AM						
11:00 AM						
11:10 AM	LUNCH/EXPO	LUNCH/EXPO	LUNCH/EXPO	LUNCH/EXPO	LUNCH/EXPO	
11:20 AM						
11:30 AM						
11:40 AM						
11:50 AM						
12:00 PM						
12:10 PM						
12:20 PM						
12:30 PM						
12:40 PM	SESSION 3A: THE BUSINESS CASE FOR GOING GREEN- Bill Moylan	SESSION 3B: PERVIOUS PAVEMENT: DESIGN & CONSTRUCTION FUNDAMENTALS- Luis Mata	SESSION 3C: INFILTRATION BASED LANDSCAPE DESIGNS: An Environmentally Friendly Solution to Drainage- Don Carpenter & Rick Lazzell	TOUR 3D: Alt E Lab, 10kw PV, Taubman, UTLC, Make Lab <small>(Depart from UTLC Gallery)</small>	GREEN EXPO	
12:50 PM						
1:00 PM						
1:10 PM						
1:20 PM						
1:30 PM						
1:40 PM	TRANSITION	TRANSITION	TRANSITION	TRANSITION	TRANSITION	
1:50 PM	SESSION 4A: BUDGET BENEFITS FROM BEING GREEN- Wm. Art Holdsworth	SESSION 4B: DESIGN OF RAINWATER HARVESTING & WATER SUPPLY SYSTEMS (Using EPA Software)- Cheryl Smith	SESSION 4C: AQUIRING CAPITAL- Pavan Muzumdar		GREEN EXPO	
2:00 PM						
2:10 PM						
2:20 PM						
2:30 PM						
2:40 PM						
2:50 PM	TRANSITION	TRANSITION	TRANSITION	TRANSITION	TRANSITION	
3:00 PM	PANEL DISCUSSION: What is the state of sustainability in Michigan? Where do we go from here, and how?				EXPO - Teardown	
3:10 PM						
3:20 PM						
3:30 PM						
3:40 PM						
3:50 PM						
4:00 PM	CLOSING REMARKS <small>(VAZ, LEROY, MEANS, WALTERS)</small>					
4:10 PM						

*Program is subject to change.