

CONTINUING EDUCATION WEEKEND**T329 – Lear Auditorium – UTLC Building at Lawrence Tech****October 23 and 24, 2009****All lectures are AIA approved CEUs – 15 Learning Units with 10 HSW/SD LUs**

Friday October 23, 2009**8:00am Registration****8:30am Session 1: Eero Saarinen and The Anxiety of Mid-Century Modernism**
Dale Allen Gyure, Ph.D. **1 LU**

An examination of the work of Michigan architect Eero Saarinen within the context of debates that occurred in the late Fifties – early Sixties over the proper expression of form and materials in modern architecture.

9:30am Session 2: Service Learning in Architecture and Urban Design: Detroit Studio Overview **1 LU**
Joongsub Kim, AIA, AICP, Ph.D.

Public-interest design or design activism has an important place in architecture and urban design practice. Service learning is one way to teach students about socially conscious design. It provides students and faculty with the opportunity to link academia to the profession, theory to practice, and studio project to applied research by collaborating with a wide range of stake holders from local communities. This presentation is an overview of pedagogies, approaches, theoretical underpinnings and examples of service learning projects undertaken at the Detroit Studio community outreach program and other entities

10:30am Session 3: From Crisis to Projects: Urban Design Strategies for Inner-Ring Suburbs of the Detroit Metropolitan Region **HSW/SD 1 LU**
Anirban Adhya, Ph.D.

The older inner ring suburbs in the Detroit metropolitan region are in extreme crisis with some of the highest foreclosure rates in the United States. In response to foreclosures and abandonment in these communities, this seminar will discuss a sustainable urban model based on “strategic regionalism” and “everyday urbanism”. Utilizing this model, the course will also explore urban design strategies for the struggling suburban communities of Detroit.

11:30am Session 4: Sustainable Urbanism, Density + Spatial Analysis
Constance Bodurow, AICP, AIA Assoc. **HSW/SD 1 LU**

The focus of this session is on the role of density in achieving sustainable urban form and its implications for architectural form and program. Current digital technologies that support urban and regional spatial analysis, including Google Earth, Sketch Up, and Geographic Information Systems (GIS), will be presented.

12:30pm LUNCH

1:30pm **Session 5: Principles of Daylighting: Receiving Light HSW/SD 1 LU**
Martin Schwartz, M.Arch., AIA

A discussion of traditional methods of gathering daylight in architectural spaces as well as innovative daylighting strategies employed by contemporary architects to locate, capture and distribute light. Focus on the proper use of daylighting for visual purposes and its potential for energy savings in the areas of lighting and thermal comfort. Consideration of the influence of light on spatial organization, material selections, and architectural form.

2:30pm **Session 6: Digital Fabrication 1 LU**
James Stevens, M.Arch.

Digital Fabrication has the potential to change the way we practice architecture. The traditional practice model of client, architect, builder and final product is starting to shift. Technology now exists that can allow an architect unprecedented control over design and construction of a building. The “file to factory” approach eliminates many of the layers involved in standard building practice. This method has been largely ignored by the building industry. Digital fabrication is entering an exciting time. With renewed interest in sustainability, efficiency, and cost control many designers are turning to digital methodology to produce progressive designs. The focus will be on past experiments and precedents in digital fabrications along with current innovators

3:30pm **Session 7: Sustainability Concentration HSW/SD 1 LU**
Ashraf Ragheb, M.Arch.

The lecture will introduce the definition of sustainability and sustainable design that is compliant with AIA definitions for both. It will give an understanding to the chronology of the word starting in the 1960s and the road map being taken towards achieving it in the built environment. Sustainable strategies as related to energy consumption; emissions to air, water, and land will be discussed and current research directions and initiatives will be presented.

4:30pm **Session 8: Sustainable Lighting Design Strategies HSW/SD 1 LU**
Mollie Clarahan, IALD

An examination of current trends in lighting design that result in energy savings and make use of sustainable materials and components.

5:30pm **AIAS Reception and Dinner OPTIONAL EVENT**

Saturday October 24, 2009**8:30am Registration****9:00am Session 9: The Politics, Practices and Policies of Environmental Issues**
William Allen, RLA **HSW/SD 1 LU**

An introduction to the relationship of the practice of architecture as it impacts the natural environment. Examples from the past will be examined as they may be adapted to the present. Technology and a greater understanding of natural systems will suggest future applications. Historic precedents in combination with Vitruvius will be used to illustrate how LEED categories can be employed as a guide to promote sustainability now and in the future. Examples of people and professional offices that have, through their work, promoted environmental awareness and solutions that can be employed today will be examined.

10:00am Session 10: Will “Mechanization Take Command” – modernism, manufacturing, and sustainability
Celeste Novak, AIA, LEED AP **HSW/SD 1 LU**

The world is hot, flat and crowded – will technology save the planet? Did Siegfried Giedion, architectural historian and author of Mechanization Takes Command have it right in 1948 and mass production was a mistake? Or in spite of asbestos, were the Modernists correct in their belief that science will provide the answer? Based on the past year of interviewing green manufacturers from TOTO to James Hardie, this lecture will review the ups and downs of some new sustainable building materials and why you should care.

11:00 am Session 11: Sustainability in the Selection and Design of Structures in Architecture
Daniel L. Faoro, R.A., AIA, M.Arch./UD **HSW/SD 1 LU**

Sustainability is fundamentally a philosophy of resource conservation based on rates of human consumption and replacement and its ecological impacts. This work examines the aspects of resource conservation in design, construction and utilization of built works in the environment. The examination is from the following perspectives; economy and efficiency in system selection, configuration/form and materials, systems interface and integration, material selection and embodied energy, constructability and fabrication methods/processes, and climate and thermal impacts. The basic principles of the environmental movement are viable measures in structural system selection, ie. Reduce, reuse, recycle and renewable resource utilization.

12:00pm Session 12: Sustainable Materials – Selections and Applications
Edward Orłowski, AIA, LEED AP **HSW/SD 1 LU**

This session will introduce the criteria for material selection in projects where sustainable construction is a priority. Topics will include material extraction, processing, installation and maintenance, as well as a brief discussion of LEED criteria.

1:00 pm Lunch

2:00pm **Session 13: Researching the Suburban Dilema** HSW/SD 1 LU
Glen LeRoy, FAIA, FAICP

Tracks historical evolution of the American suburb. Existing legal policy and physical framework and future policy consideration for sustainable American suburbs.

3:00pm **Session 14: Master Class, Exploring the Process of Design** 1 LU
Philip Plowright, RA, ALA

Master Class is a Master Practitioner based, charette-style studio which prepares graduate students for the rigour of a Master's education. The Master Practitioner is an external and accomplished member of the design community who is asked to lead the studio based on their particular approach to design thinking and the built environment. This lecture will example both the design methodology and various student projects applying that methodology.

4:00pm **Session 15: Design Theory** 1 LU
Rochelle Martin, D.Arch.

The lecture will focus on the ideas that informed 20th century modern and post modern and early 21st century architecture. These ideas as set in the context of the historical, cultural and aesthetic movement in which they occurred..

REGISTRATION FORM – LTU CEU WEEKEND 2009

- Both days – 15 hours (includes lunch both days and Friday reception) \$100.00
- Friday – 8 hours (includes lunch and Friday reception) \$75.00
- Saturday – 7 hours (includes lunch) \$75.00
- Optional AIAS "Freedom By Design" Dinner and Auction \$35.00

Please e:mail your RSVP to vnorth@ltu.edu. Checks made out to Lawrence Technological University should be presented upon arrival on October 23 and/or October 24.

Name _____ AIA Number _____

Address _____

Address _____

Phone Number _____ e:mail _____