

D.E.S.I.G.N and TRADES CONFERENCE

2011 • 10TH ANNUAL

PRESENTED BY:



MARCH 15, 2011

KEYNOTE ADDRESS

Sustainable Building Design A discussion of the benefits from design and construction of residential and commercial structures based on sustainable, high performance building standards will be presented.

Steven Winter, FAIA, President, Steven Winter Associates, Inc.

WORKSHOP DESCRIPTIONS

Building Code Enforcement, Unsafe Structures and Stop Work Orders

This seminar will review various Connecticut General Statutes and State Building Code Sections on enforcement used by local building officials, and highlight the new Connecticut State Building Code standardized forms for "Stop Work" and "Unsafe Structures". A focus on what to expect from local building officials when an unsafe structure is discovered or ongoing construction work is performed without the required permits.

Judith R. Dicine, J.D., Connecticut Office of the Chief State's Attorney

Change of Use Occupancy - From Factory to Residential This presentation will outline the application of Chapter 34 of the IBC portion of the Connecticut Building Code, the IEBC portion of the Connecticut Building Code, and Parts III and IV of the Connecticut Fire Safety Code as they relate to a change of occupancy from factory to residential, as a case study of change of occupancy. *Bruce Spiewak, AIA, Principal, Bruce J. Spiewak, AIA, Consulting Architect, LLC*

Charging Stations and Electric Vehicles

This course will provide an overview of the electric vehicle along with the installation of the charging stations for electric vehicles and trucks. Upgrading of services and the new permit process associated with electric vehicles will be covered as well as new proposed Code sections for the IRC and IBC. The 2008 NEC will be utilized during the training. *Robert Nuzzi, DPS, OSBI and Dan Shanahan, Control Module Industries*

Construction Careers, Opportunities and Training This course will discuss the array of opportunities for careers and educational training in the construction and emerging green job markets, highlight various training programs offered by the College including construction technology, green building, alternative energy and welding programs, as well as financial aid information. *Mia Lambrakis Samsel, Mary Ann Fontaine, NVCC*

Construction Safety This course is part of OSHA's national initiative to train building officials to not only protect themselves out in the field, but to also provide hazard awareness training to better recognize unsafe working conditions in construction and to make referrals to Federal OSHA as necessary. Included will be topics such as trenches, scaffolds, electrical hazards, and heavy equipment safety. A question and answer period is included to address any additional areas. *Leona May, USDOL/OSHA*

Corrugated Stainless Steel Tubing – What You Need to Know This course will provide a discussion of the history, code issues, components, design, layout and sizing of Gastite Corrugated Stainless Steel Tubing (CSST). Various code compliances and listings will be included. Understanding the testing routines for the ANSI LC-1b standard and how it affects natural gas and propane systems will be covered. There will also be an introduction and discussion of the ANSI required Design and Installation guide and lighting protected CSST systems. *Jeffery L. Ingertson, CPD, FASPE*

Fire Protection Systems—Fire Sprinklers This seminar will provide an overview of active fire protection systems with a focus on residential fire protection systems. Residential Automatic Fire Sprinkler Systems are an area of concern and controversy in the residential home building community. This program will present factual information and data associated with the installation of sprinklers in one and two family dwellings. In addition, the basic functions of sprinkler and fire alarm systems, when systems would be required, how they are designed, how they operate and how they are maintained will be covered. *Ignatius Kapalczynski, DPS OSFM*

Fire Sprinkler Technology, Displays and Demonstrations These sessions allow conference participants to learn and understand the technical aspects and opera-

CONFERENCE SCHEDULE

7:00 am	Registration Check-In Exhibit Viewing
8:00 am	Welcoming Remarks
8:30 am	Keynote Address
9:30 am	Refreshment Break Exhibit Viewing
10:00 pm	Session I Workshops
11:30 pm	Lunch
12:15 pm	Session II Workshops
1:45 pm	Break
2:00 pm	Session III
3:30 pm	Conference Concludes

tions of fire sprinkler components and systems through a series of sprinkler activation demonstrations in the NVCC Fire Sprinkler Lab and the AFSA Sprinkler Demonstration Trailer along with hands on displays of key fire sprinkler components with mini presentation by industry experts. *Robert Hollis, Chairman, Connecticut Chapter of the American Fire Sprinkler Association*

Greening Your Specifications to Achieve Sustainability Projects today require sustainability to be an integral feature of the design. Integrating these features into your project's specifications (or greening them) is an important step in achieving this goal. In this session attendees will gain an understanding of basic steps to take to add sustainable components to their specifications as well as the potential impact that green construction codes will have on the process in the future. *Ross Spiegel, Fletcher-Thompson, Inc.*

International Existing Building Code—Simplified This seminar will provide an understanding of the requirements governing repair, alterations and changes of occupancy in relation to both the Connecticut State Building Code and Connecticut Fire Safety Code. *Joseph Versteeg, Versteeg Associates*

Making Efficiency Work: The 2009 Energy Code Changes...and What They Really Mean This session examines how building science knowledge is changing our understanding of how we need to put buildings together, and avoid misunderstanding wind, water and thermal transfer effects; all reflected in the changing Connecticut code requirements coming soon. *Don Vigneau, NEEP*

Means Of Egress This seminar will cover the building and fire code requirements for a means of egress as a continuous and unobstructed path of vertical or horizontal egress travel from a building or structure to a public way. The program will focus on the three separate and distinct parts of the means of

gress including the exit access, the exit and the exit discharge. *Lisa Humble, DPS OSBI and Barry Rickert, DPS OSFM*

Occupational & Professional Licensing and Trade Enforcement This seminar is an overview of the Department of Consumer Protection's efforts in enforcement of the statutes and regulations governing the trades and trades people. *Janita Hamel and Robert Nakano, CT DCP*

Propane Gas Code This course will cover enforcement concerns and current issues with both NFPA 54 and 58. Students will have the opportunity to interact with the instructor and have general code concerns discussed. *Joseph Rose, Propane Gas Association of New England*

Solar Photo Voltaic Technology This seminar will cover the basic technology associated with operations, installation and use of solar photovoltaic panels in primarily residential

structures along with key inspection points building officials should look for during new installations. *Robert Wassung, Consulting Engineering Services*

Solar Thermal Technologies This seminar will describe the basic technology behind flat plate solar thermal collectors and vacuum tube solar collectors, how the systems are typically installed and the key inspection points building officials should be looking for. Related products will be available for viewing. *Tony Silverio, Silverio Mechanical LLC, Ted Gregoriadis, Viessmann Manufacturing and Ed Haik, Heat Tech Associates, Inc.*

Sustainable Homes and Sites: Case Studies and Panel Discussion This seminar will present case studies of sustainable residential sites, earth-sheltered homes and energy efficient houses. The case studies will

be followed by a panel discussion among a home builder, architect and landscape architect on sustainable design and construction strategies. *Linda Reeder, AIA, LEED AP, Whitney A. Talcott, FASLA, LEED AP, George Fellner, AIA, LEED AP, and Michael Trolle, BPC Green Builders*

Tankless Water Heating Technology, the Green Solution This seminar will discuss the benefits, history and industry developments of tankless water heating. An overview of how the heaters operate, applications, site evaluation and sizing requirements, and tank maintenance will also be presented. The participants will be allowed a question and answer session as well. *Roger Stolting, EDOS Manufacturers' Heating Lines and Jeff Kornhaas, Noritz America*

PRESENTER BIOGRAPHIES

Judith Rothschild Dicine, J.D., *Supervisory Assistant State's Attorney, Connecticut Office of the Chief State's Attorney, Housing Matters*
Attorney Dicine is certified by the State of Connecticut Police Officer Standards and Training Council as a Law Enforcement Instructor and has presented safety and housing code enforcement trainings for fire, building, health, housing and zoning enforcement officials for numerous state agencies and professional associations. Attorney Dicine is dedicated to assisting code officials in performing their duty of achieving and maintaining safe and sanitary housing through code compliance.

George Fellner, AIA, LEED AP, Principal, Fellner Associates Architects
Mr. Fellner is a licensed architect, member of AIA CT, NCARB Certified, co-chairman of the AIA CT Committee on the Environment and is credited with numerous published projects and writings. He regularly gives presentations on architecture, sustainable design, and the environment to professional/community groups and also teaches at the University of Hartford, College of Engineering, Technology, and Architecture.

Mary Ann Fontaine, Director, Center for Business & Industry Training, Naugatuck Valley Community College
Ms. Fontaine is responsible for conducting needs assessment and curriculum development for workforce development training programs, customizing onsite training for businesses, networking with local businesses and agencies to determine their needs, grant writing and grant management.

Ted Gregoriadis, Solar Project Coordinator, Viessmann Manufacturing
Mr. Gregoriadis has years of experience working with multi-level programs of technologically advanced hydronic heating solutions and renewable energy systems for residential, commercial and industrial applications. The Viessmann solar program includes flat-plate and vacuum tube

solar collectors, dual- or single-coil DHW storage tanks, pre-fabricated all-in-one pumping stations, a complete line of solar controls, pre-insulated piping systems, unique mounting hardware and more.

Barry Groman, Program Director, Fire Technology and Administration, Naugatuck Valley Community College.
Mr. Groman joined the staff at Naugatuck Valley Community College (NVCC) in 1988. Over the last 20 years he has lead an engineering team to a victory in the American Tour de Sol, has acquired grants to build the Alternative Fuel Vehicle Technology Center and supervised the building of electric, propane, and natural gas vehicles for use as fleet vehicles. Barry is the Director of the Fire Technology Program, leading the way with a unique government, educational, private and professional partnership in the ongoing construction of the A.F.S.A. Fire Sprinkler Laboratory.

Ed Haik, Manufacturer's Representative, Heat Tech Associates, Inc.
Mr. Haik provides technical presentations and training, and solves field related problems. He has experience working throughout Connecticut as a Manufacturer's representative with technologically advanced hydronic heating solutions and renewable energy systems for residential, commercial and industrial applications.

Janita M. Hamel, Inspector, Supervisor, Occupational & Professional Enforcement Unit, Department of Consumer Protection
Ms. Hamel been employed by the Department of Consumer Protection for over 16 years as an occupational licensing inspector and 10 years as the supervisor of the occupational licensing inspectors. She holds an unlimited contractor's license, limited contractor's license and journey person's license and is a licensed Electrical Inspector for the State of Connecticut.

Robert Hollis, Chairman, Connecticut Chapter of the American Fire Sprinkler Association
Mr. Hollis is President of Central Connecticut Fire Protection, Inc., with 40 years of experience in fire protection systems. He is currently Chairman of the Connecticut Chapter of the American Fire Sprinkler Association, a non-profit organization dedicated to promoting public awareness of fire safety and the need for residential and commercial fire sprinkler systems.

Lisa Humble, AIA, NCARB, State Building Inspector, Department of Public Safety
Mrs. Humble was appointed to the Office of State Building Official in 2008. She has held positions with the State Department of Public Works and Department of Economic and Community Development. Mrs. Humble is an Architect, licensed Building Official and a certified Fire Official. She is a graduate of The Rhode Island School of Design with a Bachelor of Architecture and Bachelor of Fine Arts and Hartford State Technical College with an Associate of Science.

Jeffery L. Ingertson, CPD, FASPE, Systems Design Engineer, Gastite Systems
Mr. Ingertson worked as a mechanical designer for JBA Consulting Engineers where he was responsible for plumbing design, document preparation and specification writing, while specializing in medical gas design. Jeff currently sits on the ASPE Board of Directors and is a member of International Association of Plumbing and Mechanical Officials (IAPMO). He holds a degree from the Long Beach College of Business and successfully completed the Sequential Program in Plumbing Systems Design at the University of California at Los Angeles.

Ignatius Kapalczynski, Fire and Life Safety Specialist, Department of Public Safety
Mr. Kapalczynski has 30 years of experience in fire protection at national, state and local levels. Presently, he serves as a Fire and Life Safety Specialist in the Connecticut Office of

State Fire Marshal and is an instructor in the CT Community College system.

Jeff Kornhaas, Noritz America

Mr. Kornhaas began to work with companies in Europe to import quality heating products to America and started a company that focused on marketing radiant heat and heating products. During this time he realized the demand for tankless water heaters and joined Noritz as a regional manager and boiler Sales in an effort to satisfy and promote this demand.

Leona May, USDOL, OSHA

Leona May has been employed by federal OSHA for 20 years, currently holding a position as a Compliance Assistance Specialist. Prior to her employment with OSHA, she was employed for 20 years in Research Development for several Connecticut companies. Her experience has covered construction, industrial hygiene and general industry safety.

Robert Nakano, Supervising Special Investigator, Trade Practices Division, Department of Consumer Protection

During his 21 years as a Special Investigator with the Department of Consumer Protection, Mr. Nakano has investigated home improvement contractors and new home contractors. He created and conducting five home improvement sting operations through out the state, which resulted in the arrests and convictions of hundreds of contractors. Robert is also a Police Officer Standards and Training certified instructor.

Robert Nuzzi, State Electrical Inspector, Department of Public Safety

Mr. Nuzzi has been the State of Connecticut Electrical Inspector since 1994. He has been a member of the Brookfield Volunteer Fire Company for 35 years. As a member of the International Brotherhood of Electrical Workers he has served as the General Forman on several high rise buildings and other electrical projects in New York City. Robert has been an instructor at Henry Abbott Technical School in Danbury, CT.

Linda Reeder, AIA, LEED AP

Ms. Reeder is an architect, educator and author of the book *Guide to Green Building Rating Systems: Understanding LEED, Green Globes, ENERGY STAR, the National Green Building Standard, and More*. She is principal of Linda Reeder Architecture, LLC, in New Haven and an Assistant Professor in the Construction Management program at Central Connecticut State University. She is on the Board of the Connecticut Green Building Council.

Barry Rickert, Deputy State Fire Marshal, Department of Public Safety

Prior to his appointment as Deputy State Fire Marshal, Mr. Rickert had served over 35 years with the City of Danbury's Fire Department. Originally appointed as a career firefighter in the early 1970's, he finished his tenure in 2008 as the City's Fire Marshal. Barry is State and Nationally Certified as a Public Fire Educator and Fire Inspector. He is a member of the International Association of Arson Investigators, the Connecticut Fire Marshals Association and is an instructor for the American Red Cross.

Joseph U. Rose, President and CEO, Propane Gas Association of New England

Since 1985, Mr. Rose has been involved with the safety committee at the Propane Gas Association of New England and the National Propane Gas Association, later becoming the Northeast US Manager for Safety Training and Regulatory Compliance for Star Gas Propane. He was a member of the Safety and Training Advisory Committee for the Propane Education and Research Council, and is a subject matter expert for the National Fire Prevention Association for [NFPA 54 – National Fuel Gas Code](#) and [NFPA 58 – The Liquefied Petroleum Gas Code](#).

Dan Shanahan, Director of Sales and Marketing, CabAire, LLC, and EVSE, LLC, Control Module Industries

Mr. Shanahan is focused on sales of electric vehicle charging stations. His duties include corporate marketing, sales and public relations. Prior to joining CMI, Mr. Shanahan worked for Kronos Incorporated and Boston Technology, as well as First Data Corporation where he marketed web-based financial transactions to state treasury agencies throughout the US. He holds a Bachelor's degree from Vermont College.

Tony Silverio, Silverio Mechanical LLC

Mr. Silverio is the owner of Silverio Mechanical LLC and has been involved with the plumbing and heating trade in Connecticut for more than 20 years. His company is a CCEF-approved solar thermal installer and offers eco-friendly green systems that use the earth's energy to heat and cool homes such as solar and geothermal.

Ross G. Spiegel, FAIA, FCSI, CCS, CCCA, LEED, Associate and Senior Specification Writer, Fletcher-Thompson, Inc.

Mr. Spiegel is responsible for creating written construction documents, establishing technical standards and processes for Fletcher-Thompson, Inc. and for the LEED Certification process on Fletcher-Thompson projects and leads the firm's Green Team. He is co-author of *Green Building Materials: A Guide to Product Selection*

and *Specification* and has addressed national and local audiences on sustainability topics.

Bruce Spiewak, AIA, Principal, Bruce J. Spiewak, AIA, Consulting Architect, LLC

Mr. Spiewak holds degrees in Architecture from the University of Pennsylvania, Syracuse and Columbia Universities. In his over 30 years of architecture experience, Mr. Spiewak has served as Commissioner of the AIA CT Building Performance and Regulations Commission, President of AIA CT and is a founding member of the ICC Professional Chapter of Connecticut, Inc. He coordinates and participates in seminars and teaches his craft at Connecticut colleges and universities. He is a licensed Building Official for the State of Connecticut and a member of the Connecticut Building Officials Association and the Connecticut Fire Marshals Association.

Mia Lambrakis Samsel, P.E., M.S., Director, Engineering Technologies Division, Naugatuck Valley Community College

Ms. Samsel oversees the engineering technology program and serves as a liaison to local technology companies and the greater engineering community in the region. She holds a bachelor's degree in civil engineering and a master's degree in environmental engineering from the University of New Haven and is a registered Professional Engineer with the State of CT. She has worked as a design engineer for Warren & Panzer Engineers, P.C., and as a project engineer for Consumers Applied Technologies, Inc. and Diversified Environmental Services, Inc. Mia has also managed at Burns & McDonnell Engineers and National Grid Electric and Gas Utility.

Roger Stolting, Territory Sales Manager, EDOS Manufacturers' Heating Lines

Mr. Stolting has held positions as an apprentice, journeyman, foreman, project manager and estimator in the plumbing, heating and cooling field. He owned and managed "Alpha Services" a Plumbing, Heating and Air Condition Company. He is a member of the Plumbing, Heating and Cooling Contractors' Association and the Connecticut State Plumbing and Piping Work Examining Board. He currently offers technical and sales support of the EDOS product lines, working closely with wholesalers, licensed contractors and industry professionals.

Whitney A. Talcott, FASLA, LEED AP

Mr. Talcott has over 20 years experience in land development, corporate, residential, parks and recreation design. He has served as president and trustee for the Connecticut Chapter of the American Society of Landscape Architects and is a member of the Connecticut Green Building Council Executive Board. A long time advocate of low impact development and green building practices; he is a LEED accredited professional and has led the recent process of incorporating new regional credits into the LEED system.

PRESENTER BIOGRAPHIES

Michael Trolle, BPC Green Builders

Mr. Trolle established BPC Green Builders in 1998, offering a unique set of residential construction services that emphasize the use of building science and green building strategies to build and renovate high performance homes. Performance issues addressed by BPC include energy and water efficiency, indoor air quality, comfort, durability, and safety from microbials, radon, and combustion byproducts and the use of sustainable building materials.

Joseph Versteeg, Fire Protection Consultant, Versteeg Associates

Mr. Versteeg specializes in building and fire codes and accessibility compliance through building surveys and review of architectural plans. He was formerly an inspector in the Office of State Fire Marshal and Supervisor and Chief of the Technical Services Section. He serves on numerous technical committees for the National Fire Protection Association and International Code Council. He instructs seminars on fire protection, building construction and fire safety worldwide. Mr. Versteeg is a

certified Fire Marshal and licensed Building Official in the State of Connecticut.

Donald J Vigneau, AIA, Building Codes Project Manager, Northeast Energy Efficient Partnerships

Mr. Vigneau works on adopting, implementing and training for energy codes throughout the Northeast as a Project Manager for Northeast Energy Efficiency Partnerships. A former local and state building official for 17 years, and a practicing architect for the prior 27 years, Don also has provided consulting services in the energy codes to ICC and the ICC Foundation. He resides in Mansfield in a new dwelling with a RESNET energy profile of 42.

Robert Wassung, Consulting Engineering Services

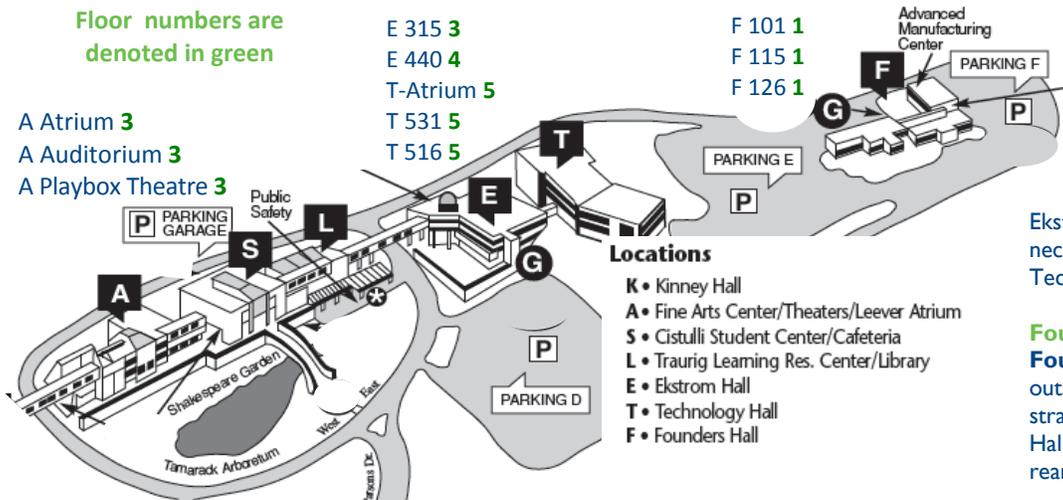
Mr. Wassung, a consultant, field representative and solar inspector for the Connecticut Clean Energy Fund, has presented seminars for the purpose of integrating safe solar into infrastructure and design and for building inspectors to become familiar with Solar installations in the State of Connecticut. At CES, Bob manages a team that specializes in the design and construction

of photovoltaic installations in New England. He has over five years of specific PV design experience inclusive of evaluations and consultations on nearly 15 megawatts of PV installation, both building and ground mounted types.

Steven Winter, FAIA, President, Steven Winter Associates, Inc.

Steven is currently Chair of the LEED for Homes Committee and is active on the LEED Steering Committee. He has taught at Columbia University and Pratt Institute. His office developed a manual of energy conservation techniques for the New York State Energy Research and Development Authority and the renewable energy design guidebook for energy conservation in small commercial buildings for the National Renewable Energy Laboratory. For more than 20 years Mr. Winter's office has managed the Sustainable Building Industry Council, a non-profit organization and a pioneer advocate of the whole building approach to sustainable facilities and developed the Whole Building Design Guide website (www.wbdg.org).

CAMPUS MAP AND DIRECTIONS



Directions

The conference breakout sessions are in four buildings—the **Fine Arts Center**, **Ekstrom Hall**, the **Technology Building**, which are connected via enclosed walkway and **Founder's Hall**, a separate building from the others. Staff from the Office of Education and Data Management will be stationed throughout the complex to direct you.

Fine Arts Center

The **Atrium**, **Auditorium** and **Playbox Theatre** are all on level 3.

Ekstrom Hall

To get to **Room E315**, take the elevators in front of the Auditorium to L5. Take a right off the elevator and walk over the connector to Ekstrom Hall.

To get to **Room E440**, take the elevators in front of the Auditorium to L5. Take a right off

the elevator and walk over the connector to Ekstrom Hall.

Technology Hall

To get to **Room T516**, take the elevators in front of the Auditorium to L5. Take a right off the elevator and walk over the connector to Ekstrom Hall and through the glass enclosed connector to Technology Hall. Room T516 will be on the right of the hallway prior to the Atrium.

To get the **Room T531**, take the elevators in front of the Auditorium to L5. Take a right off the elevator and walk over the connector to Ekstrom Hall and through the glass enclosed connector to Technology Hall. Room T531 can be accessed from the atrium or the hallway on the right just before the atrium.

To get to **T- Atrium**, take the elevators in front of the Auditorium to L5. Take a right off the elevator and walk over the connector to

Ekstrom Hall and through the glass enclosed connector to Technology Hall. Continue through Technology Hall to the Atrium .

Founder's Hall

Founder's Hall is located across Parking Area E outside of Technology Hall. All seminars, demonstrations and workshops located in Founder's Hall will be on the first floor and just outside the rear of the building.

To get to **Room F101** entering through the Main Front Entrance of Founder's Hall Room. F101 is directly to the left.

To get to **Room F115-Fire Sprinkler Lab**, enter through the front entrance. Proceed down the main hallway to the rear of the building. The Fire Sprinkler Lab is on the left. The **AFSA Fire Sprinkler Demonstration Trailer** will be located outside Room F115 near the rear entrance of Founder's Hall.

To get to **Room F126-Weatherization Lab**, enter through the front entrance. Proceed down the main hallway. Take the first left and exit the building. Proceed across the open area and through the doors into the west wing of Founder's Hall . The Weatherization Lab is located down the hallway on the left.