Schedule

Wednesday, September 15

WE15R1 ICE-BREAKER RECEPTION

Start off your conference experience on the right foot – come and see the expo floor in a relaxed atmosphere with drinks and hors d'oeuvres. One free drink included with your ticket (beer or wine only). Music provided by The Grateful Dead Revival Show.

Wednesday, 5:30 pm – 7:00 pm

Thursday, September 16

TH16K1 Integrating the Whole System – The Practice of Living System and Regenerative Design

1.5 LU Hours, HSW, SD, USGBC

Sustainability is ultimately about sustaining all life. The current trend of making buildings, cars, light bulbs, products and processes more efficient is simply the beginning point for achieving this goal. In order to truly achieve sustainability, we will need to redevelop a conscious understanding of the whole system of life-giving processes that shape the places we live in order to reintegrate our building--and our communities--with life on Earth.

The process of creating our shelter, along with producing food, has tremendous impact on planetary health. The corollary is also true; the act of building can also be the act of healing and restoring the community of life. By shifting the role of humans to participating with nature as co-equals and, even, 'tending the wild,' we move from being occupants of the land to becoming inhabitants again.

The real meaning of development is to 'create new potential.' Learning how to sustain our communities can be a re-membering and rebirth of consciousness. This presentation by Bill Reed introduces the practical concepts of integrating technical and living system design. This is not as hard as it may seem; but it is a real change in the way we think.

SPEAKER: William Reed

Thursday, 8:00 am – 9:45 am

TH16L1 Introduction to the International Green Construction Code

1.5 LU Hours, HSW, SD, USGBC

The International Green Construction Code: Safe and Sustainable by the Book, is being developed as part of the International Code Council's commitment to a green and sustainable safety concept. In this presentation we will discuss the process of green code development, the impact on current codes and the environment, and the timeline for implementation

SPEAKERS: Anthony Catana, Maureen Guttman, AIA

Thursday, 10:00 am – 11:30 am

TH16B1 Integrated Project Delivery

1.5 LU Hours, HSW, SD, USGBC

Every construction project, from a Kitchen Remodel to a new commercial building, is a highly complex and risky endeavor with many moving parts and many personalities to manage. This is especially true with a green building project where the use of new methods and materials only adds to the risk and challenges. The conventional design/bid/build project delivery mechanism might work well for a conventional project that has been done many times over but it is simply the wrong tool to use to try to properly execute a green building project. In this presen-

tation, I will provide some case studies on problematic green building projects where a conventional project delivery mechanism was utilized. I will also give an overview of the Integrated Project Delivery process and the new contract documents that AIA is developing to use for such projects.

SPEAKER: Robert Politzer and Mark Purcell
Thursday, 10:00 am – 11:30 am

TH16T1 Solar Development and Finance 101

1.5 LU Hours, HSW, SD, USGBC

While the process of developing and financing a solar electricity facility is not all that different from well-established real estate development processes, there is still a lot of misinformation and misunderstanding about the design and economics of solar projects. This session will provide participants with a solid understanding of the technical, legal and financial issues and strategies that architects and planners need to know in considering implementation of solar in new construction and building retrofits.

The presenters have a deep background in solar implementation in a variety of applications, including, schools, multifamily affordable housing, commercial real estate and municipal buildings and facilities (e.g., waste water and treatment, corporation yards and maintenance facilities). The session will cover some of the basic design guidelines, such as how to determine site solar electricity generating capacity (e., rooftop, carport and/or grounded mounted), how to size a solar facility to optimize energy savings given site load and local utility rate structures, and the implementation steps in developing solar in ways that capture local, state and federal incentives, are attractive to third-party investors and meet regulatory requirements. The session will also provide information resources that can help participants in determining the opportunities supporting solar that exist in their local communities.

Finally, the session will include a couple of illustrative case studies, and provide participants an opportunity to apply some of the models and tools presented to specific projects they are involved with, or contemplating.

SPEAKERS: Rick Brown, PhD & Charles Sarlo, Esq
Thursday, 10:00 am – 11:30 am

TH16D1 Design Day Session 1 Architecture Beyond Buildings

1.5 HSW LU Hours - HSW only

Aaron Betsky (born 1958) is an architect, critic, curator, educator, lecturer, and writer on architecture and design, who since August 2006 has been the director of the Cincinnati Art Museum. From 2001 to 2006 Betsky served as director of the Netherlands Architecture Institute in Rotterdam, Netherlands. Although Betsky was born in Missoula, Montana, USA, he grew up in The Netherlands. He graduated from Yale University with a B.A. in History, the Arts and Letters (1979) and a M.Arch. (1983). He then taught at the University of Cincinnati from 1983 to 1985 and worked as a designer for Frank Gehry and Hodgetts & Fung. From 1995-2001 Betsky was Curator of Architecture, Design and Digital Projects at the San Francisco Museum of Modern Art before moving back to The Netherlands.

SPEAKER: Aaron Betsky
Thursday, 10:00 am – 11:30 am

TH16P1 Sustainable Jersey & Sustainable Cherry Hill

1.0 LU Hours, HSW, SD, USGBC

Achieving sustainable communities requires action at all levels – including key government, development, and legislative decision makers. Action can be prompted by educating constituencies, building pressure from the ground up using a framework of targeted outcomes, benefits and incentives.

Sustainable Jersey™ delivers State-wide educational efforts and a road tested certification and incentive system offering communities a framework around which community motivation can connect with municipal goals to go green, save money, and take steps to sustain their quality of life over the long term.

Sustainable Cherry Hill, a motivated South Jersey nonprofit with a dozen motivated volunteer task forces now hosts regular events and educational efforts targeted at sustainability and the achievement of Sustainable Jersey™ points and incentives. Sustainable Cherry Hill has successfully migrated general public interest in sustainability into effective action by connecting with municipal government, local businesses, and community residents using Sustainable Jersey™ as a framework of goals.

By thinking locally - community based programs can frame sustainability in terms understandable to everyone. By educating about local impacts and benefits, homeowners, businesses, developers, educators, faith communities, and local environmental interests can be connected to a broader cause through their own individual perspectives.

Learn how Sustainable Jersey™ and Sustainable Cherry Hill work together to organize efforts and capture the energy necessary to build support for sustainability in your community.

SPEAKERS: Donna Drewes, Lori Braunstein, Scott Downie
Thursday, 10:00 am – 11:00 am

TH16P2 Rising Sea Levels and Other Cartographical Risks - Drawing Lines in a Time of Climate Change

1.0 LU Hours, HSW, SD, USGBC

The presentation will focus on the fact of rising sea levels, the legal rules that will shape property ownership at the Shore, and offer thoughts for how business people, investors and owners should address the changing landscape.

It is undisputed that sea levels are rising. Can the tide be held back? Adaptation and mitigation are how responses are classified. Both will be discussed to set the stage for how legal rules will be applied.

The common law of shorefront property rights is well-established. Property owners take the risk of gaining and of losing their land by the action of the sea. The one constant throughout is that the State owns the land up to the mean high tide mark. What rules will be applied, however, when all shoreline property owners are losing land?

The presentation will focus on a case from 1900 which suggests that even when property has been submerged the former owner retains some rights. That case will be contrasted with recent state and federal Supreme Court cases to derive some potential paths forward.

One central feature of the future will be the mapping of mean high tide (and other changed environmental attributes such as floodplains and wetlands). New Jersey's trajectory in this area took over 15 years to resolve the last time mean high tide was an important issue.

In this changing legal environment, what can owners and investors do to protect themselves, or to take advantage of the changing circumstances, in a time of rising sea levels?

SPEAKER: J. Wylie Donald

Thursday, 11:15 am – 12:15 pm

TH16L2 Mayor's Panel on Greening Efforts of New Jersey Municipalities

1.5 LU Hours, HSW, SD, USGBC

These local elected officials will discuss what is being accomplished in their communities to help lead and inspire New Jersey's sustainability agenda. This panel discussion will focus on the greening in New Jersey municipalities through education, outreach, leadership and support for municipal programs and practices that protect the environment and contribute to a better, greener community.

SPEAKERS:

Woodbridge Mayor John C. McCormac, Maplewood Deputy Mayor for the Environment Fred R. Profeta, Jr. Former Mayor of Lawrence Township Pam Mount moderated by Kristy Ranieri, Outreach Coordinator for Sustainable Jersey

Thursday, 1:15 pm – 2:45 pm

TH16B2 Taking Stock of Your Carbon Footprint: GHG Emissions Inventories for Buildings and Facilities

1.5 LU Hours, HSW, SD, USGBC

This session discussed the techniques, procedures, and concepts necessary to complete a basic inventory of greenhouse gas (GHG) emissions from facilities, buildings, and operations. A GHG inventory serves as a useful starting point for emissions reductions targets such as carbon neutrality, and provides a useful index for the evaluation of an operation's general environmental impact.

SPEAKERS: Patrick Hossay, Professor Tait Chirenje

Thursday, 1:15 pm – 2:45 pm

TH16P3 The Living Green Roof – Applications & Obstacles

1.5 LU Hours, HSW, SD, USGBC

Green Roof and Green Wall technologies offer many advantages to today's built environs. From stormwater management and improved water quality to reduced building energy needs, today's vegetated roof systems can and will be an increasing part of proper land use for years to come. Victor Coppola is an Environmental Planner and Founder of GreenWorks Environmental, LLC, a New Jersey based Green Design/Build, Environmental Science & Land Use Consulting firm who will offer a unique perspective of Green Roof system applications and obstacles. Urban agriculture, in which crops are grown in tall buildings using state-of-the-art hydroponics and aeroponics techniques, could facilitate the way high density population centers gain access fresh, safe produce all year round. Indoor farming avoids climate change issues related to severe weather events (droughts, floods, etc), while allowing for controled input of nutrients, thus avoiding pesticides, heavy metals, and other noxious contaminants of our food supply.

SPEAKERS: Victor Coppola, Dickson Despommier

Thursday, 1:15pm – 2:45 pm

TH16T2 Expanding Your Business with Wind Energy

1.5 LU Hours, HSW, SD, USGBC

As more and more wind turbines go up around the world, A&E firms are beginning to expand their businesses by adding wind to their repertoire, specifically "community wind" projects which use mid-size wind turbines designed for businesses, schools, farms and municipalities in terms of energy savings and how they fit into the landscape. This primer provides an understanding of what it takes to get into the business, as well as the unique project needs of community-scale projects compared to larger projects such as wind farms.

In this presentation, A&E firms will learn what it takes to get

into the wind business with an emphasis on community-scale projects, which are ideally sized for businesses/manufacturers, schools, commercial farms and municipalities. We will also discuss what community wind is and what it is not, i.e. community wind is not wind farms. We present a number of case studies in community wind, focusing on the unique project needs and parameters, including sizing and siting, the various service providers involved including those for wind assessment, and the local laws and incentives that came into play. We will also discuss why, in each of the case studies, wind was chosen.

The presentation will also include information on the voluntary market for renewable energy certificates (RECs) and Green Power. Not all sites are viable for production of wind energy so the voluntary market provides an avenue for organizations to clean their electricity, obtain LEED points and enhance their environmental profiles.

SPEAKER: Chris Lamonia and Jay Carlis
Thursday, 1:15 pm – 2:45 pm

TH16D2 Design Day Session 2 Multi Cultural Design

1.5 LU Hours, HSW, SD

Steven Ehrlich has received over 80 professional architectural awards and honors, including eight National AIA Design Awards. His firm was named AIA California Council Firm of the Year for 2003. Mr. Ehrlich is a frequent guest lecturer at universities, symposiums and museums throughout the world. He is a visiting professor of architecture at the University of Southern California and has served as a design critic at Arizona State University and Harvard University.

SPEAKER: Steven Ehrlich
Thursday, 1:15 pm – 2:45 pm

TH16L3 Integrating the Regulatory System (Building Codes) with Green Building and Sustainability

1.0 LU Hours, HSW, SD, USGBC

In the next fifty years we will build as many buildings as have been built in the history of human kind. In order for this development to not cause the ultimate environmental calamity green building will go beyond today's main stream programs and codes beyond their current scope. During this informative and highly relevant discussion participants will gain insight into the driving forces behind today's codes; and the leading edge work of the green building and code communities to create green building codes that not only protect the health and safety of building occupants but also address the larger ecological based risks of building design and construction.

SPEAKER: Darren Molnar-Port
Thursday, 3:00 pm – 4:00 pm

TH16B3 Sustainable Design and Carbon Neutral Practices in Historic Preservation

1.0 LU Hours, HSW, SD, USGBC

Preservation is by nature a sustainable process. By preserving an historic building and its materials, and re-using it for a contemporary purpose, you both save the enormous amount of energy used (1) to originally produce and build it, (2) to tear it down and remove all the debris and (3) to build a replacement structure. However, if a restoration is not performed correctly and inefficient systems are installed, a lot of this benefit can be lost. In contrast, by incorporating modern technologies and design best-practices into a preservation project, you have the capability of producing a project that combines the best of the old with the best of the new.

In this presentation, we explore, through several case studies, how to gain the inherent sustainability benefits of historic preservation, while incorporating modern technologies and techniques that enhances its sustainability/carbon neutral characteristics and maintains its historic character. We will look at the role that the master planning of an entire campus/district plays in developing a sustainable/carbon neutral historic building. We will also look at the evolution of sustainable practices in historic preservation projects, from basic preservation through to sustainability and carbon neutrality.

From this historical review of best practices, we look at the emerging trends in sustainability/carbon neutrality and what technologies and design techniques might be viable on future preservation projects. In specific, we will take a close look at how to incorporate the latest in alternative and efficient energy designs and systems into a historic building.

SPEAKER: David Gibson
Thursday, 3:00 pm – 4:00 pm

TH16P4 Building Materials Recycling and Salvage as Part of Neighborhood Development

1.0 LU Hours, HSW, SD, USGBC

Take recycling to a higher level by exploring opportunities to recycle more and spend less, using a cooperative approach to managing waste materials in community redevelopment settings. Learn how a collaborative, community-based construction waste management can improve the environment, traffic safety, and quality of life in a neighborhood and engage residents in a whole new way. This approach can contribute to the creation of new green jobs as local unskilled workers can be trained in the salvage and reuse of building materials. Experiences from the City of Philadelphia to the suburbs of the Jersey Shore will be used as case studies

SPEAKER: Michael Buono
Thursday, 4:15 - 5:15 pm

TH16T3 Ground Down Challenges to Constructing Geothermal Systems

1.0 LU Hours, HSW, SD, USGBC

Sustainable design projects must incorporate high efficiency building heating and cooling systems. Geothermal heating and cooling is an ever-growing system technology because of the many benefits that can be provided. This presentation will focus on design considerations associated with the ground coupling system including:

- Basic system types;
- Types of ground couples;
- Geologic considerations;
- Feasibility studies; and,
- Field-testing and construction.

A case study will be presented for a large geothermal system designed and constructed for a project at Columbia University's Knox Hall. Attendees will become educated on system types, how to evaluate their appropriateness for various site conditions, and typical design and construction considerations

SPEAKER: Brian Blum

Thursday, 3:00 pm – 4:00 pm

TH16D3 Design Day Session 3 Cultural Design as an Agent of Social Change

1.5 LU Hours, HSW, SD

Craig Dykers, Senior Partner/Director, Snøhetta, Oslo/New York

Craig Dykers was born in Frankfurt, Germany and has lived extensively in both Europe and North America. Dykers received a Bachelor's degree in Architecture at the University of Texas at Austin after initial studies in medicine and art. Dykers has worked in Texas and California and co-founded the architecture, landscape and interior design company Snøhetta in Oslo, Norway in 1989 and in New York City in 2004. Dykers has worked on the design of several prominent cultural projects including the Alexandria Library in Egypt, the Norwegian National Opera and Ballet in Oslo, and the National September 11 Memorial Museum at the World Trade Center site in New York City. Other projects include the Lillehammer Winter Olympics Art Museum and the Norwegian Embassy in Berlin. Snøhetta has been the recipient of the Aga Khan, Mies Van der Rohe and World Architecture Prizes

SPEAKER: Craig Dykers

Thursday, 3:30 pm – 5:00 pm

TH16L4 DEP Commissioner Bob Martin

1.0 LU Hours, HSW, SD, USGBC

Governor Chris Christie recently nominated Bob Martin to serve as Commissioner of the Department of Environmental Protection. An accomplished business and industry leader with recognized expertise in energy and utilities, he served as a key policy adviser throughout Governor Christie's gubernatorial campaign. He assisted in shaping and drafting then-candidate Christie's Energy Policy and Environmental Policy, and provided policy guidance on other major issues. In recent years, he also has served as a respected and trusted adviser, primarily in energy policy, to several other candidates for U.S. Senate, congressional and gubernatorial seats.

"Like Governor Christie, I am personally committed to ensuring that the DEP protects New Jersey's water, air, land and precious natural resources, and that we rapidly and predictably issue permits, clean up contaminated sites and preserve our treasured open space for future generations."

Attendees will have an opportunity to hear firsthand how Commissioner Martin plans to balance environmental quality with economic growth.

SPEAKER: Bob Martin

Thursday, 4:15 pm – 5:15 pm

TH16B4 Achieving High Performance Design from Multiple Angles; One Size Doesn't Fit All—Three Ways to Reduce Fossil Fuels for Three Different Buildings

1.0 LU Hours, HSW, SD, USGBC

When it comes to reducing greenhouse gas emissions, seasoned design-builder Wu & Associates knows that one size doesn't fit all. With several LEED® registered projects underway, Wu & Associates has designed solutions for sustainability and energy efficiency from a variety of angles. In this presentation, Wu & Associates utilizes three real world settings in the southern New Jersey – Philadelphia region to illustrate multiple distinct approaches for reducing fossil fuel use and conserving the environment.

SPEAKER: Katherine Ng, LEED AP

Thursday, 4:15 pm – 5:15 pm

TH16P5 Sustainable Education: Willow School Case Study

1.0 LU Hours, HSW, SD, USGBC

This presentation will describe the principles of sustainable and regenerative design and how these principles were used at The Willow School in the design, construction and operation of its two buildings: a LEED Gold classroom building built in 2002/03 and a LEED Platinum building constructed in 2006/07. The presentation will introduce the concepts of biomimicry and biophilia and show how these were used as frameworks for the built environment, the curriculum, and the continuing operation of the school. Finally, the presentation will introduce the "Living Building

Challenge", describe how this protocol takes the design process beyond the sustainable model, and how this will be used for the design of the school's next building.
SPEAKER: Mark Biedron
Thursday, 3:00 - 4:00 pm

TH16T4 Radiant Heating

1.0 LU Hours, HSW, SD, USGBC

All heating systems have a single purpose: make the inside of your home comfortably warm. Forced hot air systems are the most common heating systems in the US today, and they can reliably make an otherwise cold home warm. But as they heat, they also blow dust, allergens, and hot air around. They produce uneven noisy heat, and waste energy in a number of ways.

For two thousand years, radiant floor heating has been considered the pinnacle in heating comfort. Radiant heat is more comfortable, more energy efficient and is easily able to integrate with alternative and renewable technologies (geothermal, thermal, solar and fuel cells). Typically radiant heating is 20%-40% more energy efficient than conventional forced air heating.

Participants will learn about radiant floor heating and its extensive history. The numerous benefits of radiant floor heating will be presented as well as different floor panel options and assemblies and examples of mechanical installations.

In the current age of sustainability, radiant floor heating plays an integral role in smart, responsible green building.
SPEAKER: Greg Pine
Thursday, 4:15 pm – 5:15 pm

TH16D4 Design Day Awards Reception

Join us in the Expo Hall for a reception to announce and honor the winners of this year's Design Day Awards. As in prior years, Design Awards will be presented in the categories of "Un-built Work" and "Completed (Built) Work" as well as the special categories of "Preservation" and "Design-Build" project delivery. Food and drinks will be served (cash bar). Please visit www.aia-nj.org for more information on Design Day and submission requirements.
Thursday, 5:30 pm – 7:00 pm

Friday September 17

FR17K1 A Super Powered Building Sector

1.5 LU Hours, HSW, SD, USGBC

Come hear how the 2030 Challenge and current events are merging to create the greatest opportunity in history for our country, and learn how you play a key role in determining the outcome of this opportunity. Edward Mazria, Founder and CEO of Architecture 2030, will present an eye-opening presentation of current events, illustrating the magnitude of the opportunity, but also its fragility. Drawing on his 40 years of architecture experience, particularly during the 1970s, Mr. Mazria will speak to the importance of the design and building community creating and presenting a united front at this critical moment in history.

Participants will gain a new appreciation for the powerful role of the Building Sector in both creating and alleviating many of the crises facing America today, including the economic, energy and climate change crises. They will also be updated on the current legislative landscape and learn specific actions that they as individuals, local and state governments, and the architecture and planning community as a whole, must take to secure the historic opportunity now available to our community.
SPEAKER: Edward Mazria
Friday, 8:00 am – 9:45 am

FR17L1 New Jersey's SmartStart Buildings Program

1.0 LU Hours, HSW, SD, USGBC

A brief presentation of the NJ SmartStart Buildings Program, administered by TRC Energy Services for the Board of Public Utilities and funded under the NJ Clean Energy Program, will be given. NJ SmartStart is an INCENTIVE and not a rebate Program for all Commercial / Industrial (i.e. non-residential) customers of the gas and electric utilities in the State of NJ. It provides up to $500K per Electric Account per Year and $500K per Gas Account per Year to Commercial / Industrial energy users who install energy efficient equipment in new construction, rehabilitation and equipment replacement projects. Those wishing to participate must show proof that they pay into the Societal Benefits Program through their monthly utility bills.
An overview of the program components, i.e.: Prescriptive Measures, Custom Measures, Direct Install, Pay For Performance, Benchmarking and Local Government Energy Audits as well as instruction regarding project qualification and application procedures will be presented.
SPEAKER: Paul Finbow
Friday 10:00 am – 11:00 am

FR17C1 ASHRAE – High Performance Building Guidelines & Standards

1.0 LU Hours, HSW, SD, USGBC

This seminar will provide an update on the latest ASHRAE initiatives related to high performance buildings.

ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineers) for 2010 announced their brand new Standard 189.1 – Standard for the Design of High Performance Green Buildings Except Low Rise Residential Buildings, ASHRAE Building Energy Quotient Program and the continued rollout of the ASHRAE

Advanced Energy Design Guides for various building types.
Standard 189.1, a new standard for the design of high-performance green buildings, is set to revolutionize the building industry. Published by ASHRAE in conjunction with the Illuminating Engineering Society of North America (IES) and the U.S. Green Building Council (USGBC), Standard 189.1 is the first code-intended commercial green building standard in the United States.

The ASHRAE Building Energy Quotient program is focused on evaluating a building's energy performance, and provides a simple to use A-F Grading system to quickly illustrate how much energy the building uses as compared to its peers. This is similar to Miles Per Gallon gas usage stickers found on all new cars, thus providing an easy to understand "grade" of how a building performs regarding its energy usage.

ASHRAE Advanced Energy Design Guides provide architects & engineers practical advice on how to design low energy use buildings. The Design Guides feature separate publications for specific building types, such as; K-12 Schools, Small Retail, Small Office, Highway Lodging, Small Healthcare Facilities, etc.

These design guides are downloadable for free from ASHRAE.
SPEAKER: Spencer Morasch
Friday 10:00 am – 11:00 am

FR17B1 Case Study: New Jersey Climate Choice Home

1.0 LU Hour USGBC

New Jersey Climate Choice Home (NJCCH) is a customized high performance tier of the New Jersey ENERGY STAR Homes (NJESH) residential new construction program that can help Architects and Builders differentiate themselves by providing the resources to design and construct more energy efficient, green and sustainable buildings.

The very high levels of building efficiency associated with this tier promote the construction of extremely low energy use homes, and through use of on-site and grid supplied renewable energy are anticipated to truly approach net-zero carbon emissions. This initiative and the homes that successfully complete participation to its standard will rank among the most advanced in the country.

This session will not only provide detailed information about what a New Jersey Climate Choice Home is, and the program's Minimum Technical Standards, Builder Option Package, and Verification Compliance Checklists, but will also include a discussion of available financial incentives and a case study.
SPEAKER: Mark MaGrann
Friday 10:00 am – 11:00 am

FR17P1 Sustainable Growth as Public Policy

1.0 LU Hours, HSW, SD, USGBC

Although public agencies, planners and transit agencies around the country have come to appreciate the advantages of promoting smart-growth policies that mix residential and commercial uses within a "walkable" community with easy access to transit, when working within the confines of existing communities and neighborhoods, "Transit Oriented Development" is often a hard sell.

A great deal of outreach, education, and hand-holding is necessary to successfully introduce transit-friendly land use principles into local land use policy. A positive response is not necessarily assured by good planning and design. There also must be a willingness from public officials to take a stand and provide political leadership to confront constituents who may be afraid of change.

In the presentation, Sustainable Growth as Public Policy, Mark Strauss, Architect, Planner and Past President of AIANY, will discuss recent "TOD" planning efforts in Hoboken, Nassau County, and Tysons Corner, VA. Mark will discuss how political leadership is necessary to make sustainable growth happen. The presentation will conclude with lessons learned from other cultures; and how FXFOWLE's participation in an ideas competition for the redevelopment of Nordhavnen Copenhagen is redefining the firm's understanding of what makes a community sustainable. The Nordhavnen project was recognized by World Architecture News in 2009 as the most outstanding urban design project in the world.
SPEAKER: Mark E. Strauss, FAIA, AICP, LEED, PP
Friday 10:00 am – 11:00 am

FR17T1 A Little Information About a lot of Green Products

1.0 LU Hours, HSW, SD, USGBC

Too often specifying architects are confronted with a myriad of "Green" products for buildings. Architects, who cannot put staff time into research at the depth that is required, can learn from the research we have done at Good Energies, a global investor in energy efficiency and renewables. My background as a LEED AP architect turned venture capitalist requires me to study, in depth, a large number of the technologies needed for the greening of our buildings. Although we all know that passive techniques such as siting, judicious use of overhangs and natural ventilation are the first line of defense, we are frequently being called on to design with additional, new technological tools.

Topics covered will include electrochromics and super-insulating windows, LED myths and facts around issues of lifetime, efficacy, color consistency, distribution, failure, plasma lighting, fluorescent innovation, smart grid/meters, wireless/ battery-less controls, continuous commissioning

products and more. The attributes and disadvantages of these and other technologies will be discussed. Research on each of these was done by speaking to experts at government and university labs, consultants and experts in the US and the EU. (Green Building strategies which are not applicable to the Northeast US will not be covered.)
SPEAKER: Pat Sapinsley
Friday 10:00 am – 11:00 am

FR17L2 New Jersey's Clean Energy Program's Renewable Energy Incentives

1.0 LU Hours, HSW, SD, USGBC

Administered by the New Jersey Board of Public Utilities (NJBPU), New Jersey's Clean Energy ProgramTM provides information, education, and financial incentives to help New Jersey residents, businesses, and communities reduce their energy use, lower costs, and protect the environment. As the Renewable Energy Incentive Program Manager, Larry Barth is responsible for administering NJBPU policy regarding all behind-the-meter renewable energy technologies, including solar, wind, and biopower. During this presentation, participants will learn about 2010 financial incentives available for the installation of residential, commercial, and municipal solar, wind and biopower projects. The presentation will include information about utility financing programs, technical requirements, training, power purchase agreements, and additional incentives available with the completion of energy efficiency measures.

In addition, participants will learn about how New Jersey became one of the fastest growing solar markets in the nation and one of the largest in terms of installations and installed capacity through the establishment of a model program and integrated approach to solar development that includes:

• A strong Renewable Portfolio Standard (RPS) with a solar set-aside that has helped to create sustainable demand and investor confidence.
• Interconnection and net metering standards that have made it easier for systems to connect to the distribution system.
• A Solar Renewable Energy Certificate (SREC) financing model that facilitates long term financing.

New Jersey's SREC program is the first in the nation to successfully begin to transition away from up-front incentives to a market-based system for project finance. By avoiding upfront incentives, the SREC program lowers the financial impact on ratepayers while continuing to motivate solar electricity installations.

As of December 2009, over 4,800 solar energy systems have been installed across the State. These systems have a total generating capacity of over 126 MW of solar energy and will avoid the generation of millions kWh of traditional sources of electricity like fossil fuels.
SPEAKER: Larry Barth
Friday 11:15 am – 12:15 pm

FR17C2 Codifying Sustainable Design - The Benefits and Issues with Green Building Codes and Requirements

1.0 LU Hours, HSW, SD, USGBC

This presentation examines the limits of green building codes and explores some of the successes of recent green building ordinances and guidelines, as well as the challenges with codifying workable green strategies. After starting with a brief description of some recent statutory and regulatory efforts, including ASHRAE Standard 189.1 and its uses, the speakers will use case studies to point out some issues that have arisen with particular green building projects. In particular, the speakers will note where some low impact buildings have pushed the limits of existing codes, and also note where the codes have hindered, rather than assisted, good, sustainable design. The presentation will include a discussion of the issues with developing prescriptive and guiding standards to reduce the impacts of buildings and produce a truly sustainable, well-designed, built environment.

Through the lens of the presenters, an architect and an environmental attorney who have worked on both the west and east coasts, the audience will gain further familiarity with the wide range of issues addressed by the sustainable building movement - land use, building design, and construction strategies. This will be an exploration of the optimal means for local governments to promote the goal of reducing the impacts of the built environment on the surrounding ecosystem. The presentation will necessarily include a discussion of the benefits and uses of Standard 189.1, with a focus on issues unique to the eastern region, but this is not the sole focus of the presentation.
SPEAKERS: Karen Donovan, Robert Aydlett
Friday 11:15 am – 12:15 pm

FR17B2 Affordable Pathways to Green

1.0 LU Hours, HSW, SD, USGBC

This program will pull from the over 50 projects with over 2500 units that MaGrann currently has participating in the LEED for Homes and NAHB Green Building Standard programs. Many projects make expensive and unnecessary choices in their quest to be green. Sam will illuminate the most cost effective strategies associated with green programs points and prerequisites. The program will consist of real world examples as well as vision into how the building and design industries can create optimized buildings for the lowest cost.
SPEAKER: Samuel Klein
Friday 11:15 am – 12:15 pm

FR17P2 What Happens When Good Planning is Illegal

1.0 LU Hours, HSW, SD, USGBC

Current policies which lead to “business as usual” must be examined for the impact they have upon the eventual result. Many of the most innovative ideas for reinventing cities are illegal under current municipal regulations. It has become clear that while designing and constructing sustainable buildings is crucial, every new building could be LEED Platinum without major change to our environment if policies of urban design, planning and land management are not reinvented.

With help and data from the many municipalities, and in conjunction with the local ULI chapter, a team of real estate professionals has compiled extensive data about the impact of municipal policy on city planning and development.

Using examples and case studies, this session will discuss the policies of sustainable cities and towns, and explain the attributes which allow them to make that claim. In addition, the session will review policies which cause unwanted results, often defeating efforts toward sustainability.

The presentation will consider the tool set available to cities and towns from the end result, considering how unintended environmental results can be avoided or repaired. We will also review a process which starts with the planned scenario and targets supporting policies.

Resources and techniques for cities and planners will be explained. Examples of action tools and the outcomes and results will be provided for illustration.

SPEAKER: Betsy del Monte
Friday 11:15 am – 12:15 pm

FR17T2 High Performance Building Envelopes

1.0 LU Hours, HSW, SD, USGBC

Building envelopes play a critical role in supporting overall building energy performance. Not well recognized and less understood, is the role the building envelope plays in reducing the overall carbon impact by its ability to contain and arrest energy losses as well as affecting external factors as they relate to manufacturing, transportation and construction waste.

Building envelopes have a great ability to mask inefficiencies by their appearance. What may customarily be perceived as a strong and effective barrier to the elements may very well be the weakest link with regard to performance and occupant health.

This session will address the potential full impact that building envelopes have on overall building performance. Moreover, the larger global impacts of carbon mitigation will be addressed and discussed. The session will include a discussion of available strategies and methodologies and case study.

SPEAKER: Steven Leone, AIA, LEED AP
Friday 11:15 am – 12:15 pm

FR17L3 Municipal Zoning Incentives

1.0 LU Hours, HSW, SD, USGBC

Incentive zoning allows a developer to build a larger, higher-density project than would be permitted under existing zoning. In exchange, the developer provides something that is in the community's interest that would not otherwise be required (e.g., open space, plazas, arcades, etc.). The common types of community benefits or amenities for which state and local governments have devised incentive programs are urban design, human services (including affordable housing), and transit access.

This panel will examine Incentives as a strategy for greening our communities. Discussion will include planning, engineering and legal aspect of incentive zoning, as applied to sustainable design and construction.

SPEAKERS: Rich Gaeckle, Dave Roberts and Tony Nelessen
Friday 1:15 pm – 2:15 pm

FR17C3 Ready or Not…2030 is Coming Fast: Get Help from ENERGY STAR

1.0 LU Hours, HSW, SD, USGBC

In the era of "percent better than" energy metrics- do you know if your energy use targets are based on actual building performance? How well does its energy use compare to that of similar buildings? Do all of those innovative and "cool" design strategies actually deliver a better building? Lastly, do you know how much energy a building is really using? This session will help you solve the riddle of quantifying fossil fuel energy use, CO2 reduction and provide easy to understand metrics that can be communicated to C-level executives, O & M staff and design teams for setting design targets as well as tracking energy use in existing building. The session will demonstrate how to use EPA's energy performance scale throughout building life cycle from design targets to benchmarks for actual energy performance. Projects that have achieved ENERGY STAR, 2030 Challenge and other state and federal energy requirements will be highlighted during the discussion.

SPEAKER: Karen P. Butler
Friday 1:15 pm – 2:15 pm

FR17B3 Sustainable School Development in the Highlands - the Mountain Villa Primary School

1.0 LU Hours, HSW, SD, USGBC

The Mountain Villa Primary School's philosophy is the use

of the physical environment as the focal point for education. The location of this PK-1 school was selected precisely because of the opportunities its site presented. Located within a wing of an historic turn of the century mansion, the project's scale and orientation is tailored specifically to the growth of early learners, yet offers enrichment opportunities to the greater community through its adjacency to Allamuchy State Park.

This unique project - the first school expansion within the Highlands Preservation Area - sets a significant example for the creative use of sensitive lands and existing facilities. Collaboration with the State of New Jersey enabled the acquisition of the property by the taxpayers of Allamuchy Township, and impending adaptive reuse activities at the mansion will enhance its value as a community asset, as it is transformed into an appropriate leased space for specialized higher education use. The distinctive sense of "place" that this iconic historic structure and its surrounds provide will enrich students, their families and the greater community of learners for generations to come. Attendees will learn how the creative use of existing infrastructure in this project enabled the development of a unique school environment with unique curriculum responsive to the site, including: creative writing on the trails: science curriculum focused on environmental stewardship: and local history lessons based on the mansion's heritage. Furthermore, the session will explore how the project created additional opportunities for grant-funded community recreation and enrichment programs.

SPEAKER: Jay Perantoni, AIA, NCARB
Friday 1:15 pm – 2:15 pm

FR17P3 How To Be A Green Advocate: Tips From An Expert On Presentations And Selling Points

1.0 LU Hours, HSW, SD, USGBC

A veteran conservationist, sustainable real estate developer, and Planning Board member presents his techniques for convincing reluctant Town Boards and/or Planning Boards to “go green”. Presentation will include his advice for how to present a sustainable future, who should present the material, how to build a grass roots coalition to support the transition, and the likely resistance you will need to overcome. Come get the tools you will need to help your community.

SPEAKER: Paul Rabinovitch
President, TerraCycle Investments
Friday 1:15 pm - 2:15 pm

FR17T3 The Lighting Revolution Will Not Be Televised: Practical LED Design For The Future & Beyond

1.0 LU Hours, HSW, SD, USGBC

For years, professionals in the design community have been promised a lighting revolution through the technology of Light Emitting Diodes (LED). In recent years, significant advancements in performance and stricter energy codes have made this light source a viable option on many projects around the world. As with many new technologies, however, there is a great deal of misinformation about LED’s in lighting and a great deal of un-trust about what designers are actually getting with this revolutionary light source. The goal of this presentation is to clearly explain the technologies behind LED light sources and how they operate in a lighting fixture. In addition, attendees will learn how designers can use this technology in appropriate ways today to not only conserve energy, but create impactful projects that interact with other sustainable technologies. Finally, participants will look at where LED lighting fixtures are going and how designers can prepare their buildings to incorporate the technology moving in the future. The course will feature a combination of multimedia presentations and hands on product for participants to work with.

SPEAKER: Erik Frykholm
Friday 1:15 pm – 2:15 pm

FR17K2 The Green Gold Rush: From Energy Policy to Sustainable Building and Design

1.0 LU Hours, HSW, SD, USGBC

The creation of a green economy is an increasingly promising solution to multiple challenges. Sustainable business and energy independence are keys to our economic revitalization, according to Kennedy. America can boost its own infrastructure by powering industry with plentiful and domestic renewable resources. A sophisticated, well-crafted energy policy will help sharpen American competitiveness while reducing energy costs and our national debt. Intelligent energy policy is also the national fulcrum for US foreign policy and national security. From green jobs and technologies to weaning our reliance on carbon energy, Kennedy offers a bold vision to restore US economic might, safeguard our environment, and reestablish America's role as an exemplary nation.

SPEAKER: Robert F. Kennedy, Jr.
Friday 2:45 pm – 3:45 pm

Robert F. Kennedy Book signing immediately following the lecture. Books will be available to purchase onsite.

REGISTRATION INFORMATION

OPEN TO THE TRADE ONLY: NO ONE UNDER 18 ADMITTED.

Option:	Early Bird	On Site
2-DAY PASSES: All 2-Day Passes include Continental breakfast, buffet lunch, Ice Breaker Reception, Design Day Reception, admission to all keynote sessions, exhibit hall, and any seminar running Thursday through Friday.		
2 Day Non-Member Pass	$475.00*	$575.00*
2-Day AIA Member Pass	$395.00*	$495.00*
2-Day Government/Educator Pass (Requires ID, fax or bring on-site)	$295.00*	$395.00*
2-Day Student Pass (Requires ID, fax or bring on-site)	$195.00	$245.00
1-DAY PASSES: 1-Day passes include admission to all meals, keynote sessions, seminars, and expo on that day (no receptions).		
1-Day Non-Member Pass	$325.00	$425.00
1-Day AIA Member Pass	$245.00	$345.00
1-Day Government/Educator Pass (Requires ID, fax or bring on-site)	$195.00	$295.00
1-Day Student Pass (Requires ID, fax or bring on-site)	$95.00	$145.00
A LA CARTE ITEMS: AIA-NJ Design Day Only Pass includes meals, keynote session, Design Day Reception, expo, and 3 Design Day seminars only Exhibit Hall & Keynote Only 1-Day Pass includes breakfast & lunch, keynote sessions, and exhibit hall		
AIA-NJ Design Day Only Pass (Thursday)	$195.00	$245.00
Exhibit Hall & Keynote Only 1-Day Pass	$95.00	$145.00
Individual Session Passes	$50.00/ea.	$75.00/ea.
Ice Breaker Reception (Wednesday) – included with 2-day passport	$55.00	$65.00
AIA-NJ Design Day Awards Reception (Thursday) – included with 2-day passport	$40.00	$50.00
Design Board/Project Entry Fee:	**$135 member**	**$160 after 8/20/2010**
(Design Board Registrations rates after August 20th are subject to a $25 late fee, no exceptions.) (You must be an AIA member (in any state) to submit a design.)		
Carbon Offsets	$5.00	$5.00

Dates & Discounts:

Discount rates are available for various conference packages based on the following schedule:
Early Bird through 7/31/10
On-Site after 7/31/10
*Multi-attendee discount: $50 off if more than one person from a single firm attends
Please call Registration at 609-393-5690, Mon - Fri, 9a.m. - 5p.m. EST for any questions regarding benefits, fees, cancellation, refunds which apply to your registration code. ***Please note that discounts are not retroactive for previously registered attendees. Discount codes or coupons must be applied at the time of registration, no exceptions.***

2010 AIA/NJ Design Submission Requirements

The AIA New Jersey Annual Design Awards Program brings public and professional recognition to architectural projects which exhibit design excellence. Architects are invited to submit their work for review by the distinguished Design Awards Jury.

Schedule

August 20, 2010	Deadline to submit Design Awards entry form and fee
September 14, 2010	Submit project boards to Bally's Atlantic City between 10:00 am and 4:30 pm
September 15, 2010	Design Awards Jury convenes
September 16, 2010	Exhibition of design submission boards and announcement of Design Award winners at 5:45 PM
January 8, 2011	Presentation of the Design Awards at the Awards Dinner.

Submission Requirements

For each project, submit one 40" by 40", 1/4" thick foam core design submission board displaying drawings, photographs, sketches and narrative to fully explain the project. Models may not be submitted.

On a 2" identification strip at the bottom of the design submission board provide the project name, project location, architect's firm name and owner's name. The identification strip must be covered at the time of submittal until after the jury has completed its deliberations. It will be removed for the exhibition. The material covering the information strip could be masking tape, or black 20# paper and should be easily removable without damaging the board. The Architect's firm name must be covered while the projects are being judged or the board will be disqualified. The project name may appear on the Board in photos, sketches etc.

The Design Board submission must be accompanied by a disc that is clearly marked with the firm and project name and contains the following items:

1. Four to six JPEG images of the project. Each image must have two files; a "high resolution" and a "low resolution" version. The "low resolution" file must conform to the following size requirements: a maximum of 350 pixels wide and/or a maximum of 350 pixels high saved as a JPEG file.

2. A text file with the description of your project saved as a PDF file. The description should be one to two paragraphs in length, maximum one page.

Should your project win an award, you must submit a release from each photographer or copy write owner for AIA NJ to use the JPEG photos that you submitted. The release form will be sent to the winners. Execution and return of this release form is required as a condition for publicizing award winners' photos. No award winner photos will be publicized without the return of an executed release form.

All design submission boards that meet the submission requirements will be exhibited.

Design submission boards must be submitted between the hours of 10:00 AM and 4:30 PM on Tuesday, September 14, 2010 to the AIA/NJ representative at the Bally's Atlantic City, NJ. Specifics will be sent upon receipt of the Design Submission Registration Form. Deadline to register a project is August 20th.

Design submission boards must be removed at 6:30 PM on September 16th at the conclusion of the Design Conference program.

Eligibility for AIA Members ONLY. *Non AIA Architects are not eligible to participate.*

1. Built and un-built architectural projects completed since January 1, 2008 may be submitted.

2. Architects with offices and licenses in New Jersey may submit projects located anywhere in the world.

3. Architects with offices outside of New Jersey may only submit projects located in New Jersey.

4. Submissions are encouraged for all types and sizes of projects.

5. Each project may be awarded in only one category.

Design Awards Categories

1. Different categories are designated for Built and Un-Built projects.

A) Unbuilt Projects: Those projects where the design work has been completed and the construction has not yet been completed. In this category, design documents only may only be submitted.

B) Built Projects - Open Category: Any completed project.

C) Built Projects - Preservation Category: Projects where the primary design objective was the "restoration" of a historic building or structure.

D) Built Projects - Design/Build Category: Any completed project where the Owner held a single contract with an entity responsible for both the design and construction of the project.

2. The Design Awards Jury may make awards in two categories: Honor and Merit.

3. The Jury may make more than one award in each of the categories.

Publicity

Drawings, photographs, slides and JPEG images of each winning project will be used for unrestricted publicity on the AIA/NJ web site, in other approved AIA/NJ publications and at the discretion of AIA/NJ. Each winner must clear all drawings, photographs, slides and jpeg images included in the submission for future reuse and reproduction by AIA/NJ.

Meal Information:

All 1- or 2-Day Passes include continental breakfast and buffet lunch Thursday and Friday in the Exhibit Hall.

Payment:

Payment may be made on-line with a credit card or off-line with a credit card, or by a company or personal check. Details are provided later in the registration process. Please note that AIA-NJ will appear on your credit card statement. Payments may be deductible under the IRS code, but are not deductible as charitable contributions.

Refunds:

If you cannot attend the seminar, you are asked to please contact AIA-NJ by telephone at 609-393-5690. You are permitted to cancel your registration for the seminar until August 7, 2010. Should you cancel your registration, you will be charged a $50 administrative fee that will be subtracted from the refund amount. Refunds will not be given after the stipulated deadline and requests for refunds MUST be received in writing. You may send in your refund request by fax to AIA-NJ at 609-393-9891. Refunds for non-attendance will not be given; although registration substitutions are allowed.

Substitutions:

If you cannot attend the seminar, you are asked to please contact AIA-NJ by telephone at 609-393-5690. You are permitted to cancel your registration for the seminar until August 7, 2010. Should you cancel your registration, you will be charged a $50 administrative fee that will be subtracted from the refund amount. Refunds will not be given after the stipulated deadline and requests for refunds MUST be received in writing. You may send in your refund request by fax to AIA-NJ at 609-393-9891. Refunds for non-attendance will not be given; although registration substitutions are allowed.

Security Notes:

For security purposes, all attendees will be required to present photo identification on-site at the Registration Desk.
All event and conference registrants and attendees must be a minimum of 18 years of age to register and gain admittance to any conference session or event.

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AIA New Jersey

Committee on the Environment

USGBC New Jersey Chapter