

Green Building Best Practices 2009 - LEED-V3 * BIM * Existing Buildings * Stimulus

A unique four-part webinar series on Green Building design and construction practices, brought to you by:



This year's Green Building Best Practices series provides an up-to-date view on today's important green building issues, including the new LEED 2009 certification changes and processes, LEED drivers from *Stimulus* and existing building opportunities, using BIM to improve green design and construction, and new risk factors arising from increased regulations. Put your firm on inside the rail to meeting sustainability goals and increased bottom-line profits!

- Sustainability has changed the way we do business. Last year's CoStar study demonstrated Energy Star and LEED buildings commanded increased rental rates, higher occupancy rates, and higher sale prices while utilizing 40 percent less energy than average buildings and emitting 35 percent less carbon.
- In 2008, certified projects doubled to more than 2,000 and more than 14,000 projects are registered for certification according to recent USGBC tallies. Substantial green building increases will result from mandates put in place in major metropolitan areas, including Dallas, Portland, Los Angeles, San Francisco and Washington, DC. President Obama's commitment to stimulus dollars to construction and energy conservation will further spur green building growth.

Whether you're an owner, contractor, A/E or construction manager, optimal outcome occurs when all participate together starting with the design stage. *Green Building Best Practices 2009* will help you identify and formulate your strategy to have your organization start reaping the benefits of green building. Help your firm stand out as green builders.

Green Building Series speakers are all established leaders in the industry who have worked with the U.S. Green Building Council as advisors or participated in the successful completion of numerous projects that have achieved or are pending certification.

The Four-Part Series: [\(See inside for more details. Learn how you can attend and get the CD-copy of all four for half-price!\)](#)

June 17, 2009	Uncovering LEED 2009 — Managing the Transition
June 24, 2009	Existing Buildings and Stimulus: Cultivating Opportunities
July 8, 2009	Improved Green Building Design & Construction Through BIM
July 22, 2009	Dealing with New Green and Sustainable Building Laws

Uncovering LEED 2009 — Managing the Transition

Presented by Elaine Aye, IIDA, ASID, LEED-AP and
Glen Phillips, Green Building Services, Inc.

Drawing from the experience of helping to write the LEED 2009 Reference Guides and LEED Accredited Professional Study Guides, Elaine Aye and Glen Phillips will provide an outline of the proposed 2009 changes to the core LEED products. This informative session will help you improve your understanding of what is coming and what impact these changes will have on your future projects. Additionally, the presentation will explore what is happening with key market sector rating systems, such as schools, healthcare, retail and neighborhood development. By the end of this presentation, you will have an understanding of how you can remain nimble and communicate with team members and clients about what the changes really mean.

Green Building Services, Inc. (GBS), has been involved in the LEED movement since its infancy, having assisted projects to obtain LEED certifications as early as 2001, was one of six firms selected in 2003 to review documentation for LEED Certifications, and has been involved in the certification of more than 100 LEED Certified projects, representing fully 6% of all projects to ever receive LEED certification as of November 2008. With more than 300 additional projects underway, GBS represents the voice of experience and is uniquely qualified to provide key insight into the LEED design and construction process. You'll learn:

- Relevant features of LEED Version 3
- LEED 2009 Rating Systems (focusing on: new construction, schools and existing buildings)
- Innovation and the applied future of green building
- Living building challenge
- And much, much more!

This 90-minute interactive presentation offers design teams, architects, engineers, building owners, contractors, facility managers and other construction professionals valuable insight from the insider's perspective as well as practical information to facilitate and implement the new LEED requirements. In addition, a 10-15 minute period has been reserved at the end of the panelist presentation for an interactive question-and-answer session so you can gain additional knowledge about topics discussed.

OUR PRESENTERS

Elaine Aye, IIDA, ASID, LEED-AP, a principal at Green Building Services, Inc., brings a unique perspective to green building and sustainability initiatives. She represents, in her work and approach, the successful merger of the best of the interior design and architectural disciplines, materials specifications and green building. Her multidisciplinary background and diverse project experience, which ranges from residential and commercial development to state of the art convention centers, distinguishes her in the green building industry.

Elaine leads teams through the successful greening of their buildings and facilities management practices. By focusing on strategies that deliver the greatest value, Elaine consistently positions project teams to exceed their initial green building expectations. Her excellence as a communicator and results-driven focus keep projects teams on schedule, on budget and on target with their green building goals.

Elaine's professional record at GBS includes several important green building milestones including the certification of the Oregon Convention Center, the first LEED for Existing Buildings (LEED-EB) Certified project in the state of Oregon; 200 Market Street, the first LEED-EB v2.0 Gold certified building in the U.S; and The Gerding Theater, the first project in Oregon to achieve LEED for New Construction (LEED-NC) Platinum certification. Currently, Elaine is consulting on a range of other LEED-EB, LEED for Commercial Interiors (LEED-CI) and LEED-NC projects. She has recently developed, in collaboration with the Zero Waste Alliance, a curriculum for integrating the LEED-EB framework into environmental management systems.

Elaine is a member of the USGBC LEED-CI Core Committee, and co-developed the training module for LEED for Products Manufacturers. As a member of the USGBC Training Faculty, Elaine is a frequent speaker at national building conferences and trainings, including GreenBuild, NeoCon, and IFMA World Workplace.



Glen Phillips, LEED AP. After receiving a degree in environmental science, Glen worked for three years in the energy conservation, lighting and project management fields. As a project manager for GBS, Glen directs the LEED® certification and sustainability consulting efforts for a variety of project types that include educational, mixed use and retail. He provides clients with broad knowledge of sustainable strategies with an emphasis on high efficiency lighting technology.

Glen's experience includes product research, opportunities identification, lighting design, incentive coordination, project management and LEED documentation. He is currently working with two national retailers to develop sustainable prototypes, one of which is a restaurant chain.



Existing Buildings and Stimulus: Cultivating Opportunities

Presented by Sean Ivery and
Nigel Hughes, Navigant Consulting

Existing Buildings Represent 95% of the Building Stock

News articles and studies of green buildings tend to focus on new projects, with lavish write ups of the technologies employed, energy saved and LEED points achieved. However, in any year, new buildings account for no more than 5% of the building stock; the other 95% of buildings are *existing buildings*. These buildings are more difficult to make green because their design, structure and systems are in place and, unlike new building projects, they do not have large development budgets that can accommodate the cost of green materials and systems. Instead, outside of a complete retrofit project the cost of green upgrades usually has to be accommodated within the existing building's deferred maintenance plan and is subject to ROI analysis. Upgrades that cannot deliver energy savings and payback within a few years are rarely supported. Recognizing these issues, regulators have yet to seriously tackle the greening of existing buildings. Yet, with governments adopting challenging carbon reduction targets, legislation for existing buildings may not be far off.

Sean Ivery and Nigel Hughes from Navigant Consulting will guide you through the activities, issues, motivations and constraints for greening existing buildings, including:

- The prevalence of LEED for Existing Buildings / Operation & Maintenance, and other standards for existing buildings, such as Energy Star, GreenPoints etc.
- The incentives and motivations for building owners, tenants and owner-occupiers, including the split incentives issue, the impact of regulations and building codes on existing buildings and the opportunities for funding through the government stimulus program.
- Case studies of attempts to green existing leased space.
- Tools and methods that organizations are adopting to overcome the barriers to making their existing portfolios greener, including the Green Leasing Toolkit, developed by the California Sustainability Alliance.
- And much, much more!

In addition, a ten-to-fifteen minute period has been reserved at the end of the panelist presentation for an interactive question-and-answer session so you can gain additional knowledge about topics discussed.

OUR PRESENTERS

Sean Ivery is a Director at Navigant Consulting with 15 years of experience in commercial real estate and environmental consulting. He has proven expertise with transaction and project management assignments to public real estate companies, private equity investors and major corporations. Mr. Ivery co-developed the California Sustainability Alliance's Green Leases Toolkit and oversees Navigant Consulting's Sustainable Portfolios projects. He began his career as an environmental geologist working on many of California's military base remediation — conversion projects. Mr. Ivery earned his Bachelor of Science in Environmental Geosciences from Boston College and is a licensed real estate broker in the State of California.



Nigel Hughes is an Associate Director in Navigant Consulting's Real Estate Practice, where he works with real estate companies, corporations and government authorities on a range of strategic and tactical real estate related projects. Mr. Hughes has a background in real estate market and financial analysis, and commenced his career in the real estate department of a major U.K. retailer. In addition, he has many years experience consulting to the shopping mall industry, REITs and developers. Mr. Hughes is a LEED Accredited Professional, and in recent years has specialized in advising owners and tenants on sustainability and green building issues.

Improved Building Design & Construction Through Building Information Modeling (BIM)

Presented by Vaibhav Potnis, PE, LEED-AP, of Green Building Services, Inc. and (to be determined).

BIM Tools & Processes Offer Cost Saving Opportunities at Every Step of the Project — What Specifically Does it Do for Green Building?

Building Information Modeling (BIM) is not just for design. While the design phase is where most of the project's critical structural and energy systems are specified, and BIM lends itself to modeling various scenarios, there are substantial benefits to using BIM throughout the project. This session relates the hands-on experience of the benefits of using BIM on every green building project. Hear experienced experts including Vaibhav Potnis, Technical Services Manager for Green Building Services, Inc. and his fellow panelists demonstrate the case for using BIM to drive the green design and construction process, including.

- Siting
- Energy Analysis
- Value Engineering
- Estimating
- Use 4D to compare schedule impact of various Green alternatives
- Means and Methods Analysis
- Green Field Decisions
- Tracking Green Activities in the Model
- Performance Measurement and Follow-Through
- And much, much more

In addition, a ten-to-fifteen minute period has been reserved at the end of the panelist presentation for an interactive question-and-answer session so you can gain additional knowledge about topics discussed.

OUR PRESENTERS



Vaibhav Potnis, Technical Services Manager with Green Building Services, Inc., is trained in architecture, and specializes in energy analysis and design simulation. His work focuses on energy analysis using advanced computer modeling tools (including eQuest/DOE 2.2) and airflow using computational fluid dynamics (CFD) modeling. Vaibhav's innovative solutions to sustainable systems offer GBS' clients strategies for achieving enhanced thermal comfort levels and significant reductions in their energy costs.

In addition to energy modeling, Vaibhav serves as a technical consultant for climate responsive architectural projects and mechanical systems. He is currently providing energy simulation and design consultation on a variety of green building projects seeking LEED certification. Vaibhav also supports the review of a broad range of USGBC projects seeking certification including urban commercial office buildings, large high-rise

condominiums, higher education facilities and big box retail stores.

Prior to joining GBS, Vaibhav worked as a designer in a Portland, OR architectural firm where he contributed to projects ranging from federal office buildings to university housing and high-rise residential structures. Vaibhav developed his expertise in energy analysis and modeling at the Arizona Solar Laboratory, Arizona State University where he was involved in research and development of low-cost solar thermal systems.

Dealing with New Green and Sustainable Building Laws

Presented by Bryan C. Jackson, Esq. and Robert J. "Mike" Cathcart, Esq.,
Allen Matkins Leck Gamble Mallory & Natsis LLP

Evolving risk issues — Identifying and dealing with regulations at the federal, state and local levels

This important part of the Green Building Series webinar will explore (1) a brief history of climate change law, (2) an overview of green and sustainable construction laws currently being passed in many jurisdictions, (3) the laws and legal trends currently being considered and (4) the current and potential challenges to these laws. The legal history of climate change laws will briefly review the following:

- The United Nations Framework Convention on Climate Change (UNFCCC)
- The Intergovernmental Panel on Climate Change (IPCC)
- The Kyoto Protocol, UNFCCC - Bali, and the IPCC 4th Assessment Report
- Federal laws and the California Climate Action Team Report
- Anticipated future intergovernmental efforts

State, county and city green and sustainable construction and green house gas (GHG) emission laws that will be discussed include the following:

- A summary of various green, sustainable and GHG laws across the country
- Emissions targets, land use policies and renewable energy fixtures in California, including AB 1493, EO S-3-05, AB32, SB97, SB375 and AB811

The laws and trends currently being considered include the following:

- Cap & Trade Programs
- National Green Building Code
- Stimulus Package Programs
- Tax Credits and incentives

Finally, this webinar will examine current and potential legal challenges to some of these laws.

In addition, a ten-to-fifteen minute period has been reserved at the end of the panelist presentation for an interactive question-and-answer session so you can gain additional knowledge about topics discussed.

OUR PRESENTERS

Bryan Jackson is a partner in the Los Angeles office of Allen Matkins Leck Gamble Mallory & Natsis LLP. Mr. Jackson is a national expert in drafting and negotiating construction and design professional contracts for all project types including hospitals, sports facilities, universities, hotels, high-rise office buildings, desalination plants, mass transit systems, retail power centers, environmental remediation projects, climate-controlled public storage facilities, tenant improvements, luxury apartments and condominium complexes. Bryan's graduate level course at University of Southern California and national seminars have trained thousands of students, accountants and lawyers in construction transactional matters.



Bryan is an Adjunct Professor at the University of Southern California. Since 1990, the graduate courses he has taught include "Construction Management and Technology" and "Construction Law" for the *Master of Real Estate Development* program. Bryan is Chair of the firm's Construction Transaction Group and editor of the *Green Building Update*, a weekly publication on sustainable and green building issues. He is Past Chair of the *Los Angeles County Bar Association Subsection on Construction Law*, and past Chair of the *Real Property Section*. He is an International Board Member of the *J. Reuben Clark Law Society* of Brigham Young University, and serves on the Legal Advisory Committee of the *Western Conference of Construction Consumers* and on the Planning Committee for the *USC Real Estate and Business Symposium*. Also, Bryan is a member of the California and American Bar Associations. He is admitted in the Federal Bar, Central District of California and all California state courts.



Robert "Mike" Cathcart is a partner in the Los Angeles office of Allen Matkins Leck Gamble Mallory & Natsis LLP. With more than 28 years of construction litigation experience, Cathcart's practice has concentrated increasingly on construction and real estate disputes over the past several years involving Pacific Rim developers, contractors and design professionals. He has developed a strong expertise in handling all forms of alternative dispute resolution proceedings.



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✓			\$179	\$246	\$215
	June 17, 2009 1:00-2:30 PM EDT	Session 1 — Uncovering LEED 2009 — Managing the Transition			
	June 24, 2009 1:00-2:30 PM EDT	Session 2 — Existing Buildings and Stimulus: Cultivating Opportunities			
	July 8, 2009 1:00-2:30 PM EDT	Session 3 — Improved Green Building Design & Construction Through BIM			
	July 22, 2009 1:00-2:30 PM EDT	Session 4 — Dealing with New Green and Sustainable Building Laws			
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*Pre-event price effective until July 22, 2009.



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