

Suburban Cities GreenTools Training

Sammamish
City Hall LEED Silver



FREE *Brownbag Workshop Sessions PLUS a GreenTools Site Tour*

Who Should Attend?

City and King County staff and elected officials interested in green building and sustainable development.

Sponsored by:



Suburban Cities Association



GreenTools

Powered by the Solid Waste Division

Suburban Cities Association Members:

Algona, Auburn, Beaux Arts, Black Diamond, Bothell, Burien, Carnation, Clyde Hill, Covington, Des Moines, Duvall, Enumclaw, Federal Way, Hunts Point, Issaquah, Kenmore, Kent, Kirkland, Lake Forest Park, Maple Valley, Mercer Island, Milton, Newcastle, Normandy Park, North Bend, Pacific, Redmond, Renton, Sammamish, SeaTac, Shoreline, Skykomish, Snoqualmie, Tukwila, Woodinville

March — Special Green Materials Education Session

Learn the successful stories of taking a public project to the deep green level. Tour Ecohaus and gain knowledge about green materials.

April — Energy Efficient Buildings for a Carbon-Constrained World

This session focuses on energy efficiency strategies for buildings. The session will review energy modeling, auditing new energy systems and energy-saving strategies noted in Northwest Energy Star, Built Green, and LEED for Homes certification programs. It also includes an overview of King County's Executive proposed incentive-based regulations to reduce greenhouse gas emissions on new construction practices for projects planning under SEPA.

June — Deconstruction

Deconstruction has emerged as a practice of reducing the amount of waste from buildings that would otherwise be demolished. In 2007, King County jurisdictions disposed over 264,000 tons of construction and demolition debris. Find out how deconstruction can significantly reduce the amount of waste produced from these activities.

September — Low-Impact Development: Inspiring New Projects in Washington

Learn about the benefits and challenges associated with LID development – and how cities are permitting these special sustainable projects. Also the Pollution Control Hearings Board ordered that the Phase I NPDES municipal stormwater permit be modified to require the use of LID as feasible. This presentation will discuss the changes to requirements and implications for local jurisdictions.

July — Built Green and LEED Projects Tour

Tour some leading-edge green projects in King County and speak with owners and design professionals.





North Cascades Environmental Learning Center. Gold LEED certification in process.



North Cascades Environmental Learning Center. Gold LEED certification in process.



EcoHaus, Bellevue

Date: Wednesday, March 11, 2009

Time: 11:00 am – 2:00 pm

Location: EcoHaus Bellevue, 13131 NE 20th Street, Bellevue, WA 98005. (425) 952-4567

For directions: www.ecohaus.com

Description:

Learn the successful stories of taking a public project to the deep green level.

David Hall and Patti Southard will share their stories and lessons learned from the successful LEED project, The North Cascades Environmental Learning Center. Tour EcoHaus and gain knowledge about how green materials have evolved in the market place and about new green products in 2009.

At North Cascades Environmental Learning Center, signs of sustainability abound – from restoring native plants to constructing buildings with lumber certified by the Forest Stewardship Council (FSC). Led by architect David Hall of The Henry Klein Partnership in Mount Vernon, Washington, the project collaborators; City Light, Army Corps of Engineers and The North Cascades Learning Center designed facilities to sit lightly on the land. Hear about the products used and the pitfalls to designing and building LEED in the early years.

Presenters:

David Hall, Partner, *Henry Klein Partnership*

Mr. Hall has forty years of experience in the architectural profession including design, project development and construction supervision and has been a partner with the Henry Klein Partnership (HKP) since 1979. David had gained valuable sustainable design experience with his committed involvement with the North Cascades Environmental Learning Center. He was the design partner for the Learning Center and the original author of the firm's policy and direction for incorporating Sustainable Design issues into

this project, which has now set the standard for subsequent projects. In addition, Mr. Hall is the designer and partner-in-charge for two recently completed projects: the Business and Technology Building (Haskell Center) for Bellingham Technical College and a new 90,000 SF K-8 elementary school for the Burlington-Edison School District. He was the designer and partner-in-charge for the Todd Hall Addition and Renewal projects at Washington State University. He was also the Design Partner for several additional projects for the Burlington-Edison School District including two new K-8 elementary schools and renovation and additions to the Burlington-Edison High School Campus. Mr. Hall has also been involved in residential design over the years with five of his houses having been published in Fine Homebuilding Magazine to date.

Patti Southard, Project/Program Manager, *King County GreenTools Program*

Southard is in her twelfth year in the sustainable building industry and is a program manager for King County's "GreenTools" green building program. At King County Southard is also creative director for the EcoConsumer Program and provides technical assistance for the County's LEED and Built Green initiatives. Prior to joining King County Southard managed the Seattle office of Duluth Timber Company, and more recently spent four years in business development for Environmental Home Center. Southard is a member of the green affordable housing task force which supports the Equity and Social Justice Initiative at King County.

Southard currently serves on the board of Northwest Natural Resource Group, Executive Committee for Built Green of King and Snohomish Counties. Patti has a degree in advertising and went on to study Environmental Sciences at Stockton State College and Liberal Arts at the University of Montana, and in 2007 she completed the Sustainable Building Advisor (SBA) program. Memberships include USGBC, AIA, NWEBC, CRGBC and Built Green.

April – Energy Efficient Buildings for a Carbon-Constrained-World

Date/Location: Tuesday, April 7, 2009 (Redmond City Hall); Wednesday, April 8, 2009G, 2009 (DDES)

Time: 11:30 am – 1:00 pm

Description:

This session - on energy efficiency strategies for buildings - includes an overview of King County's Executive proposed incentive-based regulations to reduce greenhouse gas emissions on new construction practices for projects planning under SEPA. The ordinance provides a safe harbor for developers who reduce greenhouse gases associated with their projects.

Developers who reduce carbon emissions by 15 percent of what they would generate by complying with current codes would be designated as "in-compliance" with the environmental standards under the Environmental Act (SEPA). The change could help reduce the impacts of global warming for this region. The new SEPA regulations are the result of a year long process with stakeholders that included builders, developers, representatives from the environmental community and many others.

This session will also review energy modeling, auditing new energy systems and energy-saving strategies noted in the Northwest Energy Star, Built Green, and LEED for Homes certification programs.

Moderator and Presenter

Alistair Jackson, Principal, *O'Brien & Company*

Alistair leads O'Brien & Company's residential team, providing project design & construction consulting, verification and rating services to affordable and market-rate housing clients across the western US and beyond. Alistair is a certified Sustainable Building Advisor, a LEED Accredited Professional, and a BuiltGreen, Energy Star and LEED for Homes verifier/rater/faculty member.

Tom Balderston, Building Performance Consultant, *Conservation Services Group*

With over 20 years of experience as a green builder, designer, and general contractor, Mr. Balderston

brings an in-depth knowledge in residential energy analysis, solar, and thermal design. He is committed to finding practical and innovative solutions to home design and construction that bring low energy and low emission homes to a wide market share. As a professional resource to builders, design professionals and subcontractors, Mr. Balderston provides design and construction field support to project teams. After three years as the Western Washington representative for the NW ENERGY STAR Homes program, Tom is active as a Green Performance consultant, providing LEED for Homes, Built Green, and ENERGY STAR certifications as well as developing and implementing Home Energy Audit Programs. Emphasizing a practical approach to a project's architecture and its implementation, Mr. Balderston is known for training, developing successful working relationships with builders, and creating a valued link to an extensive network of green building professionals.

Jon Heller, Lead Engineer and Chief of Operations, *Ecotope*

Mr. Heller has worked at Ecotope since 1986 providing design, research, and consulting on energy and resource efficiency in buildings and has played the role of lead mechanical engineer for Ecotope since 1997. His research work has helped provide the technical basis for the development of regional energy codes and energy conservation programs. Consulting work has focused on improving energy efficiency and indoor air quality in thousands of housing units and commercial buildings. His engineering design work is done in an integrated design approach and has focused on small-medium commercial buildings, multifamily and small residential projects with an explicit focus on energy efficient construction. He has specialized knowledge and experience with passive solar design, super insulation, heat recovery technologies, innovative mechanical system designs, rainwater harvesting, and alternative energy systems. Mr. Heller served 4 years on the US Green Building Council's Energy and Atmosphere Technical Advisory Group.



Danielson Grove, The Cottage Company, Kirkland. Built Green 4-star certified.



Solar Hot Water Panel



Mercer Slough Environmental Learning Center. Jones and Jones, LEED Gold.

June – Deconstruction



Paneling walls, Harbor Island Deconstruction



Salvaging floors, Harbor Island Deconstruction

Date/Location: June 16, 2009 (Redmond City Hall); June 17, 2009 (DDES)

Time: 11:30 am–1:00 pm

Description:

The building industry contributes significantly to the amount of waste generated and sent to landfills. In 2007, King County jurisdictions disposed over 264,000 tons of construction and demolition debris. Deconstruction has emerged as a practice of reducing the amount of waste from buildings that would otherwise be demolished. Deconstruction is the process of taking down a building in such a way as to maintain the highest practical value of its components.

This training will include:

- Basic introduction on the benefits and concerns associated with the salvage and deconstruction of both residential and commercial buildings
- Guidelines for assessing the salvage/deconstruction worthiness of a building
- Pointers on how to pitch salvage/deconstruction to customers (when they have an appropriate project)
- Additional resources on salvage and deconstruction

Presenters:

Kinley Deller, Waste Reduction Specialist, *King County GreenTools Program*

Kinley Deller is a Waste Reduction Specialist for

the King County Green Tools Program (within King County Department of Natural Resources and Parks). Kinley provides construction related waste reduction and recycling assistance to construction project managers, contractors, architects, and developers within King County. Building on over 10 years experience in the waste reduction field, Kinley has been working tirelessly over the past several years to promote deconstruction as a key waste reduction option and has provided assistance on several projects, both governmental and private, to further this effort.

Dave Bennink, President, *Re-Use Consulting*

Dave is the owner and president of Re-Use Consulting, based in Bellingham, WA. Dave is on the cutting edge of hybrid deconstruction and works tirelessly around the country to educate project owners, deconstruction crews, and demolition companies on the best ways to take buildings down while salvaging the materials of value contained within their walls.

Noel Stout, Manager, *Seattle Deconstruction Crew, ReStore*

Noel is the manager of the ReStore's Seattle deconstruction crew. Noel is experienced in the intricacies of hand deconstruction and excels at finding the safest and most efficient ways of systematically dismantling a building - often obtaining diversion rates over 95%.

July – Built Green and LEED Projects Tour



Public Art and Pocket Park, Greenbridge Hope VI Project. Built-Green 3 star

Date: July 15, 2009

Time: 10:00 am-3:00 pm

Description:

As our cities grow denser in the urban area, smaller homes, condos, multi-family projects and mixed-use projects with ground-floor retail and residences above will be a much more common building configuration. We will tour some leading-edge commercial and residential green projects in King County, and speak with owners and design professionals. Transportation will be provided; space is limited, so RSVP soon. For more information, email evan.lewis@kingcounty.gov.

Lead Presenter

Sian Roberts, Principal, *Miller/Hull Partnership*.

Sian Roberts, AIA, LEED AP, is an architect with 19 years of experience and a masters in architecture degree from the University of Washington. She is a partner at the Miller|Hull Partnership, an architectural firm with a strong portfolio of sustainable projects including 4 AIA National Top Ten Earth Day awards. She is a LEED accredited professional and has worked on a number of LEED certified projects including the University of Washington's first LEED certified project, the University of Washington Tacoma Campus Mattress

Factory. She was principal-in-charge for design of the Kitsap County Administration Building which received a national 2008 "Beyond Green" award from the Sustainable Buildings Industry Council. She has worked on the design of buildings with green roofs, natural ventilation, cisterns, daylighting, rain gardens and is actively working on tracking and improving the energy performance of the buildings that Miller|Hull has designed. Sian is a member of the AIA Seattle's Sustainable Design Resource Group

which helps guide the AIA's position on legislative issues regarding sustainability. She is on the Board of the Seattle Architecture Foundation where she has been active in developing architectural programs for youth and she is currently on the executive committee of the Northwest Chapter of the DBIA working to encourage an integrated design and construction process.

For more information about the Miller/Hull Partnership, see www.millerhull.com.



PCC Natural Markets, Redmond, LEED Gold

September – Low-Impact Development: Inspiring New Projects in Washington

Date/Location: September 15, 2009 (Redmond City Hall); September 16, 2009 (DDES)

Time: 11:30 am–1:00 pm

Description:

Session on new design and engineering examples of LID projects in Washington. Learn about the benefits and challenges associated with LID development.

Learn from new examples of LID projects recently completed in Washington and how local jurisdictions permitted these special projects. Also the Pollution Control Hearings Board ordered that the Phase I NPDES municipal stormwater permit be modified to require the use of LID as feasible. The Department of Ecology is charged with writing new permit language to implement this requirement. This presentation will discuss the changes to requirements and implications for local jurisdictions.



Steve Foley, PE, Senior Engineer, King County, Department of Natural Resources

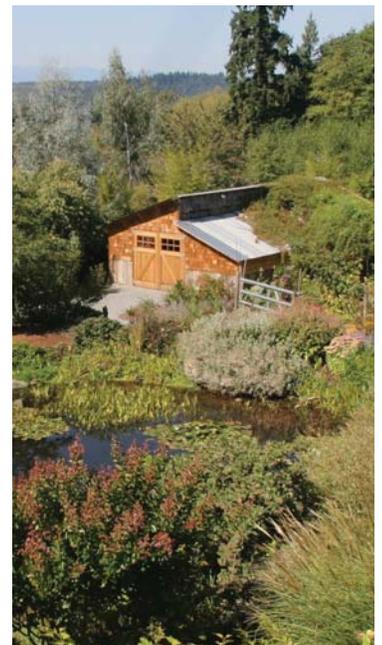
Steve Foley, PE is a senior engineer with King County DNR. He has been with the county for 17 years, providing technical assistance to engineers and reviewers dealing with stormwater problems, and assisting with the development of stormwater policies and standards.

Curtis Hinman, Adjunct Associate Professor, Washington State University

Curtis Hinman is Associate Professor with Washington State University Extension and Adjunct Faculty with WSU Department of Natural Resource Sciences. He directs water resource programs for WSU Extension in Pierce County to protect water quality and aquatic habitat in Puget Sound basin. Mr. Hinman is the author of the "Low Impact Development Technical Guidance Manual for Puget Sound" and the "Rain Garden Handbook for Western Washington Homeowners.. He is researching, designing and monitoring various low impact development strategies applicable in western Washington, as well as serving on advisory committees that develop regional stormwater management policy and identify funding and research needs. Mr. Hinman earned a B.S. degree in Environmental Policy Analysis and Planning (specializing in lake ecology and water resource management) from University of California Davis. He holds a Masters of Science degree with a concentration in stream ecology and watershed management from Yale University.



LID Feature, Parking Lot at Redmond City Hall, LEED Silver certification



Residential LID Landscape, Vashon Island

Brown Bag Workshop Registrations and Schedule

RSVP via email to evan.lewis@kingcounty.gov.

Include your contact information, name of workshop, and location where you wish to attend.

- Redmond City Hall
- King County DDES
- Other Location (see listing)

Special Green Materials Education Session / EcoHaus Bellevue store tour

March 2009

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Energy Efficient Buildings for a Carbon-Constrained World

April 2009

Su	Mo	Tu	We	Th	Fr	Sa
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5	6	7	8	9	10	11
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19	20	21	22	23	24	25
26	27	28	29	30		

Deconstruction

June 2009

Su	Mo	Tu	We	Th	Fr	Sa
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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Built Green and LEED Projects Tour

July 2009

Su	Mo	Tu	We	Th	Fr	Sa
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12	13	14	15	16	17	18
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Low-Impact Development: Inspiring New Projects in Washington

September 2009

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Locations:

Except as noted, the brownbag technical sessions will be held at:

- South King County - King County Department of Development and Environmental Services (DDES). For directions: www.kingcounty.gov/property/permits/about/ddesmap.aspx
- North King County - Redmond City Hall. For directions: www.redmond.gov/cityservices/maps/drivingdirections.pdf

For more information please contact **Cynthia Moffitt, King County GreenTools**. Email cynthia.moffitt@kingcounty.gov or call 206-296-6792



This material will be provided in alternate formats upon request.
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