



07

APRIL 25-27 2007 SEATTLE

LIVING FUTURE

**first annual regional green building
“unconference”**

Seattle Center, Pavillion A



Welcome to Living Future 07!

Two profound, life changing events are converging to create the most significant crisis of modern time—the warming of the earth’s atmosphere by burning fossil fuels, and the rapid depletion of global petroleum and natural gas reserves.

New evidence of unprecedented changes in the Earth’s climate continues to emerge. Glaciers are receding at an astounding rate. Ancient seasonal patterns are shifting. Rainfall is coming in more intense and concentrated bursts, just as predicted by models of global warming. The ten warmest years have all occurred since 1990, with 2005 breaking all records. As these events intensify over the coming years, they will dramatically change how we live and how we relate to the natural world.

We believe there is a solution.

AIA Seattle’s Committee on the Environment and the Cascadia Region Green Building Council have partnered to create our first

annual, regional Living Future event to provide the information you need to reduce greenhouse gas emissions and create a future of Living Buildings, today.

Visionary leaders from around our bioregion (and the continent) are discovering exciting new ways to confront these challenges. Many companies, organizations and communities are blazing a new path, municipal leaders are promoting better-designed cities, and designers are reinventing what they’ve known all along – green design is good design.

This year, Living Future will explore specific steps for cutting emissions of heat-trapping gases and designing and building Living Buildings. We need to break down barriers – including lack of information – that slow the adoption of Living Buildings. We’ve endeavored to bring you cutting edge learning opportunities, expand your vision of what is possible, and stimulate your thinking with the latest best practices with leading minds in the green building community.

On behalf of the organizing committee, thank you for being a part of the solution.

Living Future goals:

- **Enable change:** provide steps to revolutionize the way the built environment is designed, built and maintained;
- **Prompt action:** gain an understanding of the specific strategies and technologies to meet the 2030 and Living Building Challenges in the Cascadia bioregion;
- **Inspire and engage:** be moved by innovative ideas and case studies that stretch and expand the notion of what buildings can be;
- **Create networks:** provide a creative venue for interaction and celebration!

Marni Kahn
Washington State Director, CRGBC

Angie Morgan
Washington State Assistant Director, CRGBC

Peter Dobrovolny
Board Member, CRGBC

Julie Petersen
Co-Chair, What Makes it GREEN?, AIA Seattle COTE

Carl Dominguez
Co-Chair, What Makes it GREEN?, AIA Seattle COTE

Carolyn Forbes
Managing Director, AIA Seattle

Keynote – Ed Mazria The 2030° Challenge

Mastermind of the 2030 Challenge Kicks off the First Regional Living Future Green Building Conference

Edward Mazria - 'Resuscitating a Dying World'

5:30 pm, Wednesday, April 25, 2007, Seattle Center, Pavillion A • Reception & No Host Bar to Follow • Join in the Conversation

“Unknowingly, the architecture and building community is responsible for almost half of all U.S. greenhouse gas emissions annually. Globally the percentage is even greater.”



-Ed Mazria, AIA, founder Architecture 2030

Credible scientists give us 10 years to be well on our way toward global greenhouse gas (GHG) emissions reductions in order to avoid catastrophic climate change. Yet there are hundreds of coal-fired power plants currently on the drawing boards in the US. Seventy-six percent (76%) of the energy produced by these plants will go to operate buildings. As Architecture 2030 has shown, buildings are responsible for almost half (48%) of all energy consumption and GHG emissions annually;

globally the percentage is even greater. Immediate action in the building sector, and a concerted global effort, are essential if we are to avoid hazardous climate change.

Stabilizing emissions in this building sector, and then reversing them to acceptable levels over the next ten years, is key to keeping global warming to approximately one degree centigrade (°C) above today's level. To accomplish this, Architecture 2030 has issued The 2030° Challenge asking the global architecture and building community to adopt the following targets:

- That all new buildings, developments and major renovations be designed to meet a fossil fuel, greenhouse gas (GHG) emitting, energy consumption performance standard of 50% of the regional (or country) average for that building type.
- That at a minimum, an equal amount of existing building area be renovated

annually to meet a fossil-fuel, greenhouse gas (GHG)-emitting, energy-consumption performance standard of 50% of the regional (or country) average for that building type (50% of the regional average through innovative design strategies, the application of renewable technologies and/or the purchase - 20% maximum - of renewable energy).

- That the fossil fuel reduction standard for all new buildings be increased to:
 - 60% in 2010
 - 70% in 2015
 - 80% in 2020
 - 90% in 2025

Carbon-neutral by 2030 (using no fossil-fuel GHG-emitting energy to operate)

We know these targets are readily achievable and that most developments and buildings can be designed to use only a small amount of energy at little or no additional cost through proper planning, siting, building form, glass

properties and location, material selection and by incorporating natural heating, cooling, ventilation, and day-lighting strategies. The additional energy a development or building would then need to maintain comfort and operate equipment can be supplied by renewable sources such as solar (photovoltaics, hot water heating, etc.), wind, biomass and other viable carbon-free sources.

To meet the 2030° Challenge, we must not only design high-performance and carbon-neutral buildings and developments, but also advocate for incentives and actions that will ensure that all buildings and developments meet these targets as well.

Adopt the Challenge.
Visit www.architecture2030.org

Edward Mazria, AIA is an internationally recognized architect, author, educator and founder of Architecture 2030, a non-traditional and flexible organization focused on protecting our global environment.

His distinguished career includes award-winning architecture and planning projects that employ cutting-edge environmental approaches to its design. His published material includes *The Passive Solar Energy Book*, his strategy for addressing today's most pressing global challenge, climate change, in his article "It's the Architecture Stupid!" and in subsequent pieces "Turning Down the Global Thermostat" and "Blueprint for Disaster". Mazria is the recipient of numerous awards including multiple AIA Design Awards, Commercial Building Awards from the Department of Energy, "Pioneer Award" from the American Solar Energy Society and an Outstanding Planning Award from the American Planning Association.

Ed Mazria is brought to you by the Cascadia Region Green Building Council and the AIA Committee on the Environment, What Makes it GREEN? in collaboration with the City of Seattle's Urban Sustainability Forum.

Keynote Sponsors



AIA - What Makes it Green?

Living Future 07 Opening Events

Wednesday, April 25, 2007 • Seattle Center, Pavilion A

- 4:00 – 5:00 pm **VIP PRE-PARTY/RECEPTION**
- 5:00 pm **DOORS OPEN**
- 5:30 – 7:00 pm **ED MAZRIA KEYNOTE**
www.architecture2030.com
- 7:00 – 9:00 pm **RECEPTION – NO-HOST BAR AND HORS D'OEUVERS**

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What Makes it GREEN?

Thursday, April 26, 2007 • Seattle Center, Pavilion A

- 8:00 – 8:30 am **BREAKFAST AND REGISTRATION**
View WMIG submittals, exhibits & displays, bookstore & lounge
- 8:30 – 9:00 am **OPENING REMARKS, MAYOR GREG NICKELS**
- 9:00 am – noon **BREAKOUT SESSIONS**
- SESSION 001:** **LOPEZ ROOM**
LIVING CENTER SLAM **9:00 am - noon**
- This hands-on, collaborative workshop provides a structured framework where we can evoke the highest awareness and appreciation of the core values underlying the green building movement. Presented by James Weiner, Penny Bonda and Ralph DiNola.

SESSION 002:

ON SITE

- OLYMPIC SCULPTURE PARK TOUR** **9:00 am - 10:30 am**
Experience and learn about Seattle's new dynamic downtown urban park from the design team and SAM experts.
- MOSLER LOFTS** **10:30 am - noon**
Visit a sustainable condo under construction in the heart of the sculpture park neighborhood. LEED Silver pending.

SESSION 003:

PAVILION A

- ROADMAP GUIDE TO INTEGRATED DESIGN** **9:00 am - 10:00 am**
Presented by Kathy Wardle
- CAN WE ACHIEVE NET ZERO?** **10:00 am - noon**
Sustainability is not an option. Our actions today affect the lives of tomorrow. Albert Bicol

- Noon – 1:00 pm LUNCH**
View WMIG submittals, exhibits & displays, bookstore & lounge
- 1:00 – 2:00 pm NO CREDITS, JUST PREREQUISITES**
Jason F. McLennan, CEO Cascadia Region Green Building Council presents The Living Building Challenge
- 2:00 – 4:00 pm WHAT MAKES IT GREEN? PANEL DISCUSSION**
What Was Green and *What Is Green* project submittals will be discussed by a distinguished panel who are recognized leaders in sustainable design. Moderated by Tony Gale.
- 4:00 – 5:00 pm LIVING FUTURE COMPETITION JURY DISCUSSION**
Tom Paladino, Jason F. McLennan and Susan Jones review the entries for the first annual Living Future Competition.
- 5:00 – 6:00 pm CLOSING REMARKS, DAVID KORTEN**
- 6:00 pm CELEBRATION!**
Live dance music and more!

Cascadia Living Future - Schedule

Friday, April 27, 2007 • Seattle Center, Pavilion A

8:00 – 8:30 am	BREAKFAST AND REGISTRATION View WMIG submittals, exhibits & displays, bookstore & lounge
8:30 – 9:30 am	MASTER SPEAKER Bob Berkebile, FAIA, BNIM ARCHITECTS
10:00 am – noon	TECHNICAL TRAINING & INTERACTIVE SESSIONS Leading regional and national experts will provide engaging, interactive technical break out sections aimed at providing key strategies and removing barriers to achieve Living Buildings.
	<u>Session 001: SITE DESIGN</u> PAVILION A
	<u>Session 002: MATERIALS</u> SHAW ROOM
	<u>Session 003: INDOOR ENVIRONMENTAL QUALITY</u> FIDALGO ROOM
	<u>Session 004: LIVING CENTER CHARRETTE</u> LOPEZ ROOM
Noon – 1:00 pm	LUNCH View WMIG submittals, exhibits & displays, bookstore & lounge
1:00 – 3:00 pm	TECHNICAL TRAINING & INTERACTIVE SESSIONS Leading regional and national experts will provide engaging, interactive technical break out sections aimed at providing key strategies and removing barriers to achieve Living Buildings.
	<u>Session 005: WATER</u> PAVILION A
	<u>Session 006: ENERGY</u> SHAW ROOM
	<u>Session 007: BEAUTY & INSPIRATION</u> FIDALGO ROOM
	<u>Session 008: LIVING CENTER CHARRETTE (cont.)</u> LOPEZ ROOM

3:15 – 4:15 pm	15 MINUTES OF BRILLIANCE TRANSFORMATIVE SOLUTIONS FOR THE NEXT GENERATION We are surrounded by brilliance each day, but most have no platform in which to share it with a wider audience. Living Future 07 is now part of this solution. Four presenters share their big ideas!	PAVILION A
4:15 – 4:45 pm	SPEED NETWORKING Just like speed dating, but for the purpose of networking.	
4:45 – 6:45 pm	CASCADIA BIG BANG AND FELLOWSHIP AWARDS, WMIG COMPETITION FINALISTS Emcee: Jason F. McLennan and Special Guests During Cascadia's Big Bang & Gala Celebration, Cascadia will unveil a number of new initiatives at a regional and national level, welcome Cascadia's newly elected Board of Directors, celebrate our regional branches, and present achievement awards to the dynamic individuals who've invested a lifetime of blood, sweat and tears fighting for the environment on our behalf. Did we mention the luscious organic local food and libations, the live entertainment and dancing?	
6:45 pm - 12:00 am	CELEBRATION! Dinner and dancing all night long.	

AIA - What Makes it Green?

AIA COTE/WMIG Message

Welcome to Living Future 07!

In 1998, the AIA Seattle Committee on the Environment initiated "What Makes It GREEN?" as an observance of Earth Day by and for the local design and building community to fill a void where local design professionals could engage on topics related to designing and building a sustainable environment. Since then WMIG has found a place in the design community's annual calendar. From the beginning, "What Makes It GREEN?" has focused the attention of professionals and the public alike on innovation in design and materials that allow us to achieve our vision of a sustainable future. WMIG has always embraced cooperation with other professional organizations and design related professionals with successful result in sharing of ideas; thus allowing the event to grow and evolve as the sustainable industry matures.

What Makes It GREEN? 2007 has provided us with a new opportunity to share our goals and ideals of a sustainable future with a new partner. For the past several months we have

collaborated with Cascadia Region Green Building Council to put together what we think is a regional event that transcends what each of us could have accomplished on our own. The future of the planet is in our hands and the future of sustainable design is now!

With a common theme of "Living Future" our goal for "What Makes It GREEN?" is to provide you with learning opportunities, presentations, tours and discussions that increase your awareness and our responsibility to create a healthy and livable environment. We also want to touch on where and how our sustainable aspirations developed as an event, discuss and debate where sustainable architecture and design finds us in the present and where the future of sustainable design is headed. To accomplish this, we have assembled a diverse group of visionary leaders from throughout the Pacific Northwest region to discuss, debate and present to us the challenges and opportunities we face as we design and build our way to a living future.

Thank you to our steadfast team of volunteers who gave their time and effort to this year's event. We also want to thank AIA Seattle and the Committee on the Environment for their support in our new partnership with Cascadia.

On behalf of AIA Seattle COTE and this year's WMIG committee we want to particularly thank Cascadia Region Green Building Council for sharing their knowledge and enthusiasm with us to put together this two-and-a-half day event! Finally, thank you to all the panelists, speakers, presenters and attendees. The experience, determination and participation you bring will help lead us to a sustainable future.

Julie Petersen, Associate AIA, LAP®
Mithun
Co-Chair, What Makes it GREEN?
AIA Seattle COTE

Carl M. Dominguez, AIA
GGLO
Co-Chair, What Makes it GREEN?
AIA Seattle COTE

COTE Chairs

Marc Jenefsky, AIA
Jensen/ Fey Architects and Planners

J. Irons, Assoc. AIA, LAP®
Mithun

WMIG Chairs

Carl Dominguez, AIA
GGLO

Julie Petersen, Assoc. AIA, LAP®
Mithun

Staff Liason

Carolyn Forbes, Managing Director
AIA Seattle

WMIG Committee members

Allison Capen
Bethany Madsen
Brian Cloward
Carrie Ericson
Christina Bollo
Craig Vierling
Daniel Raymond
Dave Rodgers
Gaurav Mehta
Greg Giraldo
Greg Hepp
Janet Stephenson
Joe Llona
Katerina Prochaska
Mark Davies
Megan Ritchie Saffitz
Nicole Lamanna
Peter Locke
Poppi Handy
Sarah Shoup
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Paladino & Company
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Mithun
ARC Architects
SMR Architects
Turner Construction
NBBJ
SvR Design Company
Stantec
SvR Design Company
Bassetti Architects
City of Seattle
TetraTech
Jensen/ Fey Architects and Planners
Skanska USA
Paladino & Company
Ferguson Construction
Paladino & Company
SMR Architects
SvR Design Company
ARC Architects
PRR

Welcome: Mayor Greg Nickels



Seattle Mayor Greg Nickels has earned a national reputation for innovative leadership in transportation, public safety, jobs, climate disruption and other challenges facing Seattle.

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On February 16, 2005, the Kyoto Protocol took effect in the 141 countries that ratified it. That day, Nickels challenged mayors across the country to join Seattle in taking local action to reduce global warming. On March 30, 2005, ten mayors representing more than three million Americans joined together to invite cities from across the country to take additional action to reduce global warming pollution. And on June 13, 2005, the US Conference of Mayors unanimously passed the Mayors Climate Protection Agreement. Cities continue to sign on to the agreement and formalize their commitment. At this time 435 mayors representing 61 million Americans have accepted the challenge.

Living Center Slam

Lopez Room

9:00 am - 12:00 pm, Thursday, April 26, 2007

The Living Center Slam provides a structured framework where we can evoke the highest awareness and appreciation of the core values underlying the green building movement. The Slam creates a supportive means of engagement that reflects the importance of collaboration in clearly articulating our highest expectations.

Traditional project delivery promotes linear problem solving methods that cannot reliably produce visionary solutions to complex problems. As clients demand solutions that address increasingly nuanced program and performance concerns in their projects, we must revisit the way we work.

In this hands-on collaborative workshop, we're not looking for a definition of "green, arcane LCC methodology, or guilt-edged case study; we're looking for results - and we promise a clear cut winner. Green design demands cross-disciplinary collaboration to reconcile the particular with the grand in a politicized world. This session brings the rhetorical spices ethos and pathos to locus, coupled with a deadline from hell, all the challenge ideas of practice and teamwork and to seek a roadmap to re-engineer the project delivery process. The session will foster discussion of the development of practices and strategies across the disciplines that inform green design. We emphasize creation, integration, presentation, and results. Not a garden-variety lecture and the PowerPoint presentation - this is a hands-on interactive adventure for integrated design practitioners and clients that is fun and educational.

Living Center Slam Leaders

James Weiner, a principal with Collaborative Design Studio, is senior LEED faculty, serves on the USGBC Professional Education Committee and is principal designer of award-winning LEED projects. He has been a practicing architect for more than 20 years and is a frequent educator, workshop coordinator, and panelist on a variety of topics for groups including the American Library Association, Community College Facilities Coalition, Pitzer College, UCLA, USC, UCSB, SCI-ARC, Association of Energy Engineers, American Solar Energy Society, the International Initiative for a Sustainable Built Environment, AIA, ASHRAE, CTAC, Energy Resource Center, and the USGBC. He is an original instigator of the Greenbuild Slam.



Ralph DiNola, a principal with Green Building Services, brings 15 years of green building and design expertise to his clients. Ralph is widely recognized for his ability to deliver high level green building strategies and forge effective working relationships among members of national and international project teams. His proven record of achieving clarity around green building objectives has enabled clients to implement the most meaningful and valuable solutions for their specific project.

Ralph is a nationally recognized facilitator who leads trainings, eco-charrettes and workshops on sustainability and green building strategies. As a member of the USGBC's LEED faculty, he also leads workshops on the LEED Green Building Rating System. Ralph is a featured speaker at national and international conferences, including GreenBuild, EnvironDesign, and PCBC.



Penny Bonda, Eco-Editor, *Interior Design Magazine*, works in the field of environmental communications and is a prominent writer and lecturer. As the Eco Editor of Interior Design magazine, she is a monthly contributor to their online resource, The Green Zone. She is the founding chair of the US Green Building Council committee for LEED Commercial Interiors and the ASID Sustainable Design Council, and is currently the co-chair of the Green Residential Renovation and Interior Remodeling Program.

Bonda serves on the ASID Foundation Board of Trustees, Council for Interior Design Accreditation Standards Council, and the USGBC's LEED training faculty. She was named to the National Register of Peer Professionals for GSA's Design Excellence Program.



Sustainable Building Tours

Olympic Sculpture Park

2901 Western Ave., Seattle

9:00 am - 10:30 am, Thursday, April 26, 2007



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Owner – Seattle Art Museum

Architect - Weiss/Manfredi

Contractor - Sellen Construction

Civil / Structural - Magnusson Klemencic Associates

Landscape - Charles Anderson Landscape
Architecture

Aquatic - Anchor Environmental

Mechanical / Electrical - ABACUS Engineered
Systems

Lighting Design - Brandston Partnership Inc

Environmental - Aspect Consulting, Seattle

Project Highlights

The Olympic Sculpture Park arose from a mutual commitment of the Seattle Art Museum and the Trust for Public Land to preserve downtown Seattle's last undeveloped waterfront property and the goal to provide a unique setting for viewing outdoor sculpture and public recreation.

Design Strategies – the Z-shaped configuration connects three parcels into a series of four distinct landscapes that rise over existing road and train lines, the park creates a continuous and constructed landscape for art outside the walls of a museum, the design idea was to embrace the city's energy and create collaboration between art, landscape, architecture and infrastructure

Environmental Strategies – brownfield redevelopment, creation of a salmon habitat, native plantings, capture and use of rainwater on site, pesticide-free grounds maintenance and green cleaning products, composting café



food waste and serving containers, the use of water efficient irrigation system, encouraging public transportation, biking and carpooling by staff and visitors, and on-site recycling for visitors.

Sustainable Building Tour

Mosler Lofts

Corner of 3rd Avenue and Clay Street

10:30 am - 12:00 pm, Thursday, April 26, 2007



Project Facts

12 story, 150 unit condominium tower in Belltown.

234,000 sf with 3 levels of underground parking.

\$35,000,000 construction budget

Materials- PT Concrete, Steel and Window Wall

Special Features: "Loft style" condos, floor-to-ceiling glazing, LEED Silver target, extensive rooftop amenity space, fitness room, library.

Green Features: Energy Star appliances, FSC certified wood flooring, minimal finishes (e.g. exposed concrete ceilings), 30% water use reduction over standard construction, green roof, 75% of construction waste recycled, bike storage, etc.

Design/Construction Team

Developer- The Schuster Group

Contractor- JE Dunn

Architect - Mithun

Structural- CKC (Cary Kopczynski & Co.)

Landscape- Kenneth Philp Landscape Architect

Interiors- Dianne Shapard (The Schuster Group) & Mithun

Mechanical- Design/Build- Holaday-Parks

Electrical- Design/Build- Veca Electric

Fire Protection- Design/Build- Costco Fire Protection Building Tour

Roadmap for the Integrated Design Process

8:00 am - 10:00 pm, Thursday, April 26, 2007

Kathy Wardle, MES, BA, LEED® A.P.

Senior Associate & Director of Research Busby Perkins+Will

As Associate and Director of Research of Busby Perkins+Will, Kathy directs the firm's national Sustainable Design Initiative. Through her 5 years at Busby Perkins+Will she has amassed considerable experience with the LEED rating system, high performance green buildings and the Integrated Design Process, managing certification for a number of the firm's buildings including the successful LEED Gold White Rock Operations Center, and overseeing product research and feasibility studies for the firm. She has a strong commitment to sustainable design and construction and has a detailed knowledge on sustainable product procurement.



Alex Hutton, P.Eng. LEED® AP

Sustainable Building Analyst, Stantec



As part of Stantec's Concepts Group, Alex specialises in sustainability consulting; analysing resource and energy flows within new and existing buildings, as well as community scale developments. She assists green design initiatives through energy and thermal modeling, life-cycle cost analysis, greenhouse gas quantification, existing building audits, LEED facilitation and coordination, research, and incentive procurement.

In the context of building design, the Integrated Design Process is a method which seeks to produce high performance buildings that meet a wide variety of well defined environmental and social goals and objectives while staying within budgetary and scheduling constraints. This process relies upon a multi-disciplinary and collaborative team, making decisions together based on a shared vision and holistic knowledge of the project. The process follows the design through its entire life cycle, from pre-design through occupancy and into the operation phase.

For centuries buildings were design and constructed under the guidance of a single person, termed the master builder. Since the mid-19th century the role of the master builder has been divided between a growing number of players, as construction projects have become more complex and expertise has become more specialised. The single-person-approach has gradually turned into a multi-disciplinary, multi-organizational, affair. The Integrated Design Process essentially aims to allow today's

larger teams to respond to these challenges by emulating the seamless integration of a single master builder.

IDP fosters creativity, thinking outside the box, and a cross-disciplinary approach to design. It allows exploration of novel and innovative green design approaches; IDP averts cookie-cutter solutions, and instead generates ideas that are better tailored to the specific project. It provides a chance to re-evaluate previous assumptions and take advantage of the unique opportunities as they present themselves.

Kathy Wardle, Busby Perkins+Will and Alex Hutton, Stantec Consulting will present the Roadmap for the Integrated Design Process which was commissioned by the BC Green Building Roundtable and completed in 2007. The presentation will introduce the Roadmap and how industry professionals can use IDP to further high performance and green building design.

Can We Achieve Net Zero?

10:00 am - 12:00 pm, Thursday, April 26, 2007

Albert T. Bicol, P. Eng, LEED AP

Partner Cobalt Engineering



“Sustainability is not an option. Our actions today affect the lives of tomorrow.”

Albert Bicol champions the use of sustainable solutions in his projects. He has extensive expertise in modeling building energy usage, thermal comfort and indoor air quality conditions. He has spearheaded the company's education in energy and thermal comfort simulation, introducing and overseeing the implementation of several different programs.

Albert has a wide range of experience in Canada and the U.S. including the Sustainable Master Plan Design for the Kwantlen University college and a 'heritage' retrofit for

the Edgewater Casino (the largest application of displacement delivery ventilation in North America).

Other projects include building systems modeling and design for the Montenay Burnaby Incineration Plant's office building, a fully underground library for a private college (both with a goal of zero net purchased energy/GHG emissions) and a new 75,000 SF lab-based teaching facility for the University of British Columbia. Albert provided the concept design for the new Langara College Library, which won an international Holcim Award. Albert's latest project includes leading the Sustainable Master Planning of the 20-building (8 city blocks) site for Southeast False Creek, the future home of the 2010 Olympic Athletes villages.

As a LEED Accredited Professional, Albert performed reviews for the USGBC on projects applying for LEED certification and now heads Cobalt's team for the review of project applications for the Canada Green Building Council. He was also recently appointed by the

City of Vancouver Council to serve on its Urban Design Panel – only the second mechanical engineer to serve in this capacity.

Topics Presented:

The state of our environment

Designing buildings that anticipate future global trends

Harnessing free energy of the environment

Microclimate analysis

Advanced Building Energy/ Thermal Comfort Modeling

Integrated building systems design

Project examples

AIA - What Makes it Green?

No Credits: Just Prerequisites

Cascadia's Living Building Challenge

1:00 pm - 2:00 pm, Thursday, April 26, 2007

It is time to move beyond Platinum to the level of the Living Building.

Imagine buildings that operate as elegantly and efficiently as a flower.

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Imagine a building that is informed by the eco-region's characteristics and

- that generates all of its own energy with renewable resources,
- that captures and treats all of its water on site
- that uses resources efficiently and for maximum beauty

Cascadia has issued a challenge to all building owners, architects, engineers and design professionals to build in a way that will provide all of us and our children with a sustainable future.

The Living Building Challenge is attempting to raise the bar and define a closer measure of true sustainability in the built environment, at least as far as what is currently possible and given the best knowledge available today. Projects that achieve this level of performance can claim to be the 'greenest' in North America and as close to true sustainability as currently possible.

How The Living Building Standard Works

At the heart of the Living Building Challenge is the belief that our society needs to move quickly to a state of balance between the natural and built environments. Although highly difficult to achieve, understanding and documenting compliance with our system is inherently easy. No credits to count, models to create or paperwork to compile. Just sixteen simple and profound prerequisites that must be met.

The purpose of the Living Building Challenge is simple – to define the highest measure of sustainability possible in the built environment based on the best current thinking- recognizing

that 'true sustainability' is not yet possible. The Living Building is by definition difficult to obtain, and yet all facets of this tool have been attained in numerous projects around the world – just not all together. With this standard, Cascadia hopes to encourage dialogue on where the building industry needs to head and engender support for the first pilot projects until more and more living buildings emerge.

The rules are simple:

1. There are no credits – just prerequisites.
2. There are 16 prerequisites and all must be met to comply.
3. Many of the prerequisites have "exceptions" that show up in the footnotes and that are intended to acknowledge market realities. The Standard needs to be challenging – but not impossible to obtain.

Join us tomorrow during Cascadia's Big Bang for an unveiling of the the Living Building Challenge at a national scale.

Download your copy of the Living Building Challenge at www.cascadiagbc.org.

Jason F. McLennan, CEO Cascadia Region Green Building Council



Jason is a nationally recognized leader in the sustainable building industry. He is trained as an architect and has been a principal at BNIM, an architecture firm in Kansas City and an innovative force in

green building for the last decade. His mentor and founding partner of BNIM, Bob Berkebile, was also a founding member of the U.S. Green Building Council and is a tireless advocate for the importance of sustainable building. "Jason brought energy and passion to BNIM Architects, and he became a leader who made significant contributions to our green design practice," said Berkebile.

As a leader on sustainable issues, Jason is highly attuned to the challenges and opportunities that exist in this period of rapid transformation in the building and development

industry. He brings a desire to create change and recognizes that the Cascadia chapter is in a unique leadership position nationally as USGBC and Canada Green Building Council's most mature chapter. Cascadia is at a point in it's development where it is nimble enough to be aggressive on key issues and has the capacity to leverage this responsibility as a bioregional model.

He believes there is "an opportunity for the Pacific Northwest region of both Canada and the United States to create significant change and restoration in its own communities, but perhaps even more important, is the opportunity for the region to be a showcase for the world by providing the most compelling examples of responsible and sustainable development anywhere." He is personally connected to the Northwest and Lower Mainland as someone born and raised in Canada and who received his Bachelor of Architecture degree from the University of Oregon.



AIA - What Makes it Green?

What Makes it Green?

Panel Discussion

2:00 pm - 4:00 pm, Thursday, April 26, 2007

As part of the annual What Makes It GREEN? event the AIA Seattle Committee on the Environment solicited entries from the Pacific Northwest region, demonstrating innovation in environmentally responsible design.

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Accepted projects will be used as a platform to stimulate the panelist-lead discussion. The projects can be viewed during the two-and-a-half day Living Future event and will also be posted on the AIA Seattle website and distributed in the annual case study publication.

Forty-two projects ranged in scope from single family prefab to commercial hotels, encompassing educational, residential, commercial and institutional projects. The panelists will discuss the innovative and exemplary steps that the teams took to demonstrate environmentally responsible design and construction that exceeds industry standards.

The submitted projects range in size, complexity, scope, cost and use, but all submittals were asked to evaluate, explain and illustrate their projects based on the Living Building Challenge criteria. This panel discussion will focus on a few unique approaches and/or projects in our region to raise the level of sustainable awareness for our built environment in our communities and for our planet.

Are we living on the verge?

All submittal entries were asked this Living Future Challenge question. Each project team submitted more thought and explanation about how their design submittal stretches how designers think about the spaces and places we inhabit and experience. How does the sustainable message resonate and relate to the changes we are facing in the world today? And, are technical and innovative solutions enough or do we need to revisit the vernacular and cultural knowledge gained over thousands of years?

Project Criteria:

Site

Where and how do the qualities of the site show up in the end sustainable result?

Energy

How does the submittal efficiently engage and manage the environmental forces around and within it?

Materials

What strategies were used in the submittal to minimize waste, create durability, and promote simple, sensible material choices?

Water

How does the submittal deal with the issue of water protection and preservation?

IEQ & Comfort

What visual, acoustic, lighting, and air quality elements make the submittal life-enhancing?

Beauty & Inspiration

Where and what are the celebratory ingredients that make the submittal a special place?

What Makes it Green?

Panelist Information

Moderator:

Tony Gale FAIA
Starbucks Coffee Company



For over thirty years Tony Gale has been a prime motivator in the development of environmentally sensitive design at the building and city scale. His reputation in this pursuit promoted him to City Architect for Seattle in 1999 and to the 146 year-old American Institute of Architects College of Fellows in 2003. Most recently, in October 2006 he was elected to the USGBC's Board of Directors' corporate retail seat.

Albert T. Bicol, P. Eng, LEED AP
Partner, Cobalt Engineering



Albert Bicol champions the use of sustainable solutions in his projects. He has extensive expertise in modeling building energy usage, thermal comfort and indoor air quality conditions.

Ann Schuessler
Director Sustainable Building Practices, RAFN



Ann joined the Rafn Company in 1990 and has worked in various capacities as a project engineer, foreman, estimator, project manager, and project superintendent. Her immersion in innovative environmentally-friendly construction has earned her recognition throughout the industry, and is a resource for the Rafn Company. Ann is committed to changing today's "standard building practices" in a way that will benefit our society, our environment and our economy.

Deb Guenther, ASLA, LEED AP
Principal, Mithun



Deb Guenther seeks to redefine how people experience the outdoors within the city. She works with teams to integrate the functions and beauty of natural systems into places. Her work varies in scale and complexity and includes urban redevelopment, community planning and parks. Deb is nationally recognized for her practice in sustainable landscape architecture, most recently advancing a site rating tool.

Dennis Wilde
Gerding Edlen Development



As Gerding Edlen's designated "green guy," Dennis Wilde has encouraged increased sustainability in development projects while building a strong business case for the economic and social benefits of environmental responsibility. Dennis' responsibilities include feasibility studies, management of the pre-construction process and overall project management. He is also an active board member of the Oregon Natural Step Network.

Peter Steinbrueck, FAIA
City of Seattle



Peter Steinbrueck was first elected to the Seattle City Council in 1997, and is now serving his third term, through 2007. Steinbrueck is the Chair of the Urban Development and Planning Committee. Steinbrueck, a licensed architect, has a passion for the urban environment and is currently focused on finding ways to improve and enhance our Central Waterfront, as well as finding ways to make downtown Seattle more livable for people of all incomes, especially families.

AIA - What Makes it Green?

What Was Green?

Sleeping Lady Mountain Retreat

Jones & Jones
Conference Retreat Center | Leavenworth, Wa

What Is Green?

5th & Madison Tower

Ruffcorn Mott Hinthorne Stine
Mixed Use | Seattle, Wa

18

Ashworth Cottages

Pryde Johnson
Residential | Seattle, Wa

Bainbridge High School

Mahlum Architects
Education | Bainbridge Island, Wa

Barn Beach Reserve

Bassetti Architects
Cultural / Education | Leavenworth, Wa

Bertschi School

The Miller|Hull Partnership
Institutional | Seattle, Wa

Brian Carter Cellars Winery

Boxwood
Industrial / Manufacturing | Woodinville, Wa

Brightwater

Mithun
Education / Assembly | Snohomish, Wa

City College of S. Francisco Perform Arts

LMN
High Education / Perf Arts | San Francisco, Ca

Daybreak Cohousing Community

Schemata Workshop
Multi-Family | North Killingsworth

Florera

Pryde Johnson
Mixed-Use | Seattle, Wa

Gray Middle School

Mahlum Architects
Education | Tacoma, Wa

Green River CC New Science Building

DLR Group
Higher Education / Laboratory | Auburn, Wa

Hanford Reach Interpretive Center

Jones & Jones
Higher Education / Laboratory | Auburn, Wa

Home Plate

Mithun
Mixed-Use | Seattle, Wa

Kateri Court

Environmental Works
Mixed-Use | Bellingham, Wa

Kitsap County Administration Building

The Miller|Hull Partnership
Public | Port Orchard, Or

Lopez Comm Land Trust Sustainable Village

Mithun
Mixed-Use | Lopez Island, Wa

Mercer Slough

Jones & Jones
Public | Bellevue, Wa

Mount Si Home

Living Shelter Design
Residential | North Bend, Wa

Pantages Apartments

SMR Architects
Residential | Seattle, Wa

PCC Natural Market – Redmond

VELOCIPEDA architects
Retail | Redmond, Wa

Pioneer Middle School

DLR Group
Education | Dupont, Wa

Puyallup City Hall Block

Mithun
Mixed-Use | Puyallup, Wa

RightWay Auto

PLACE Architects, pllc
Retail | Des Moines, Wa

Ross Park Shelterhouse

Heliotrope Architects
Public | Seattle, Wa

Seattle Center 5th Ave. Garage

NBBJ
Mixed-Use | Seattle, Wa

Seattle Perkins + Will Office

Perkins + Will
Commercial | Seattle, Wa

Site 52 New Elementary School

Integrus Architecture, P.S.
Education | Sammamish, Wa

Springwood Youth Center

ARC Architects
Community Center | Kent, Wa

Stone Way

GGLO
Residential | Seattle, Wa

Sustainable Street Lighting

Sparling / Candela
Streetscape | Seattle, Wa

Taylor 28

Mithun
Mixed-Use | Seattle, Wa

The Center for Health & Healing

Interface Engineering
Medical | Portland, Or

The Cobb

GGLO
Adaptive Reuse | Seattle, Wa

The Reserve

Fourfold Architecture, PLLC
Residential | Shoreline, Wa

The Village at Angle Lake

SMR Architects
Mixed-Use | Sea Tac, Wa

UW Interdisciplinary Research Building

Univ of Washington – Capital Projects
Lab / Research | Seattle, Wa

Vineyard Lane

J. Kriegh Architects
Mixed-Use | Bainbridge Island, Wa

Washington State Veteran's Home

J. Kriegh Architects
Medical | Washington

Waters Winery

Boxwood
Indust / Manufact | Walla Walla County, Wa

Wayne Lyman Morse U.S. Courthouse

DLR Group
Judicial Center | Eugene, Or

AIA - What Makes it Green?

Living Future Design Competition

Jury Discussion

4:00 pm - 5:00 pm, Thursday, April 26, 2007

The AIA Seattle Committee on the Environment, along with the Cascadia Region Green Building Council issued a challenge to all entries to build in a way that will provide all of us with a sustainable future. The Living Future Competition was open to all building owners, architects, engineers, design professionals, students and emerging green builders. Nineteen projects were submitted in two categories of practicing professionals and students/ emerging green builders. The competition prizes are intended to award teams whose entries reflect true sustainability as measured by the definition of the Living Building Challenge. The submitted projects will be used as a platform to stimulate the jury led discussion regarding the innovative approaches either pioneered or brought to a new level with the 2007 competition entries.

Competition winners will be announced on April 27, during the Cascadia Big Bang Celebration.

Practicing Professionals

- Winner \$3,500
- Runner-Up \$1,500

Students/ Emerging Green Builders

- Winner \$1,000
- Runner-Up \$500

Living Future Competiton Entries

Aluminum Can Re-Manufacturing Facility

University of Washington

Breathe

Matt Eaton

Columbia Springs Environmental Education Center

The Miller|Hull Partnership

Department of Ecology

Perkins + Will

Elegant Sustainability

Mithun

Human Generated Energy Plant

Rina Chinen

June Key Delta House Community Center

Sienna Architecture Company

Kenton Living Building

SERA Architects, Inc.

Kootenay House

Jennifer Melnyk

Main and Terminal, Vancouver

Stantec Architects

Millennium Water

Merrick Architecture

Millennium Water – Net Zero

Merrick Architecture

NW Performing Arts / Community Center

Cdi Engineers / LMN Architects

Pringle Creek Boiler Building

Opsis Architecture

RE: Underground

GGN / LMN

Residence in West Vancouver

RBA Partners Architects

SEFC Net Zero

Recollective

Tumalo House

PIQUE llc

Water-skin

GGN / LMN

Living Future Design Competition Expert Jury

Jason F. McLennan

CEO, Cascadia Region Green Building Council

Jason is a nationally recognized leader in the sustainable building industry. He is trained as an architect and has been a principal at BNIM, an architecture firm in Kansas City and an innovative force in green building for the last decade.

As a thought leader on sustainable issues, Jason is highly attuned to the challenges and opportunities that exist in this period of rapid transformation in the building and development industry. He brings a desire to create change and recognizes that the Cascadia chapter is in a unique leadership position nationally as USGBC and Canada Green Building Council's most mature chapter.



Tom Paladino

President, Paladino & Company

A nationally recognized leader in the green building industry, Tom is the founder and president of Paladino & Company. Drawing upon his technical expertise in both architecture and engineering, Tom brings innovative ideas, a building science knowledge and perspective, and a proven process for design integration to the over 250 green and LEED projects he has consulted on. From concept and system design assistance, to cost/benefit evaluation and analysis, Tom contributes inspiration, expertise, and implementation-focused tools to each project team.

Credited with creating the widely adopted Eco Charrette method, Tom is also a significant contributor to the development of the LEED Green Building Rating System: his firm conducted the LEED Pilot Program, authored the LEED 2.0 Reference Guide, and continues to serve as certification reviewers on behalf of the U.S. Green Building Council.



Susan Jones

Principal, atelierjones

Susan Jones, AIA, is the principal of atelierjones, and an Affiliate Associate Professor at the University of Washington. Her firm focuses on sustainable urban housing projects, large scale urban design, and smaller scale design projects. Recent projects include sustainable housing projects in the urban northwest, retrofit of existing urban buildings and spaces, developing waterfront visions for the cities of Seattle, Bellingham and La Conner, corporate and family retreats and several small identity projects. With 20 years of experience as a former design partner of nbbj, her work has won multiple design awards and been published nationally and internationally. Susan is registered in over 15 states as a professional architect, in addition to being a LEED professional. She spent several years working in cities around the world, both as a Fulbright Scholar and as an architect, including San Francisco, Boston, Vienna and Berlin.



AIA - What Makes it Green?

David Korten

Closing Remarks

5:00 pm – 6:00 pm, Thursday, April 26, 2007

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Dr. David C. Korten is the author of *The Great Turning: From Empire to Earth Community*. His previous books include the international best-seller *When Corporations Rule the World*; and *The Post-Corporate World: Life after Capitalism*. Korten is co-founder and board chair of the Positive Futures Network, which publishes YES! A Journal of Positive Futures; founder and president of the People-Centered Development Forum; a founding associate of the International Forum on Globalization; a board member of the Business Alliance for Local Living Economies (BALLE); and a member of the Social Ventures Network, and the Club of Rome.

He holds MBA and Ph.D. degrees from the Stanford Business School, has thirty years experience as a development professional in Asia, Africa, and Latin America and has served as a Harvard Business School professor, a captain in the US Air Force, a Ford Foundation Project Specialist, and a regional adviser to the US Agency for International Development. He is known internationally through his writing and lectures as a leading critic of corporate globalization and visionary proponent of a planetary system of local living economies based on the organizing principles of healthy eco-systems and properly regulated market economies.


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The background features a light green and blue color palette. It is decorated with numerous overlapping circular patterns of varying sizes and colors, including shades of green, blue, and white. Some of these circles contain faint, stylized maps of the Pacific Northwest region. The overall aesthetic is clean and modern, with a focus on environmental themes.

The Cascadia Region Green Building Council is the leading green building organization in the Pacific Northwest concerned with making change in the built environment for positive environmental impact. As a cross-border advocacy organization we bring a unique perspective to green building by taking a bioregional approach to problem solving and market transformation. We endeavor to make significant change out of all proportion to our size, by acting as a catalyst and a lever for organizations in both the private and public sectors through creative programs, events and tools. It is critical that we clearly communicate our values and motivators and how we intend to operationalize them. We believe that it is essential to share a compelling vision for the future and provide the leadership necessary to realize that vision.

Cascadia Living Future - Schedule

Friday, April 27, 2007 • Seattle Center, Pavilion A

8:00 – 8:30 am	BREAKFAST AND REGISTRATION View WMIG submittals, exhibits & displays, bookstore & lounge
8:30 – 9:30 am	MASTER SPEAKER Bob Berkebile, FAIA, BNIM ARCHITECTS
10:00 am – noon	TECHNICAL TRAINING & INTERACTIVE SESSIONS Leading regional and national experts will provide engaging, interactive technical break out sections aimed at providing key strategies and removing barriers to achieve Living Buildings.
	<u>Session 001</u> : SITE DESIGN PAVILION A
	<u>Session 002</u> : MATERIALS SHAW ROOM
	<u>Session 003</u> : INDOOR ENVIRONMENTAL QUALITY FIDALGO ROOM
	<u>Session 004</u> : LIVING CENTER CHARRETTE LOPEZ ROOM
Noon – 1:00 pm	LUNCH View WMIG submittals, exhibits & displays, bookstore & lounge
1:00 – 3:00 pm	TECHNICAL TRAINING & INTERACTIVE SESSIONS Leading regional and national experts will provide engaging, interactive technical break out sections aimed at providing key strategies and removing barriers to achieve Living Buildings. <u>Session 005</u> : WATER PAVILION A
	<u>Session 006</u> : ENERGY SHAW ROOM
	<u>Session 007</u> : BEAUTY & INSPIRATION FIDALGO ROOM
	<u>Session 008</u> : LIVING CENTER CHARRETTE (cont.) LOPEZ ROOM

3:15 – 4:15 pm **15 MINUTES OF BRILLIANCE** **PAVILION A**
TRANSFORMATIVE SOLUTIONS FOR THE NEXT GENERATION

We are surrounded by brilliance each day, but most have no platform in which to share it with a wider audience. Living Future 07 is now part of this solution. Four presenters share their big ideas!

4:15 – 4:45 pm **SPEED NETWORKING**
Just like speed dating, but for the purpose of networking.

4:45 – 6:45 pm **CASCADIA BIG BANG AND FELLOWSHIP AWARDS, WMIG COMPETITION FINALISTS**

Emcee: Jason F. McLennan and Special Guests

During Cascadia's Big Bang & Gala Celebration, Cascadia will unveil a number of new initiatives at a regional and national level, welcome Cascadia's newly elected Board of Directors, celebrate our regional branches, and present achievement awards to the dynamic individuals who've invested a lifetime of blood, sweat and tears fighting for the environment on our behalf. Did we mention the luscious organic local food and libations, the live entertainment and dancing?

6:45 pm - 12:00 am **CELEBRATION!**
Dinner and dancing all night long.

President's Welcome

Thomas Mueller, President, CaGBC



Dear Conference Participant,

I remember 2002, building on the success of the USGBC Cascadia

Chapter, Kevin Hydes launched the Vancouver Branch. Soon after, Robert Brown, Rosie Hyde and I became members of the first Board of the Vancouver Branch.

We had the dream to create the first cross-border Chapter that would increase the uptake of sustainable building from a bio-regional perspective. This was realized in February 2006 with the unique alliance between British Columbia, Washington and Oregon.

BC is home to the first LEED® certification in Canada, the LEED Gold achieved by the Vancouver Island Technology Park in 2002. Four years later, BC also became home to Canada's first LEED Platinum building, Parks Canada's

Operations Centre for Gulf Islands National Park Reserve. Today, almost half of our Canada's LEED certified buildings are on the West coast—and this number continues to grow as BC leads in total numbers of LEED project registrations and certifications in the country.

As we look back at our significant accomplishments, we need to keep our eyes on the opportunities and challenges ahead. Climate change is now recognized as the most serious challenge of our time. We have a small window of opportunity to increase the reach of our knowledge and take action that will significantly reduce our greenhouse gas emissions.

This urgency is why the Canada Green Building Council adopted the goals of certifying 100,000 commercial and institutional buildings and one million homes by 2012. This is the change required to bend the emissions curve downward. These ambitious goals dovetail with the CaGBC's adoption of the 2030 Challenge to produce carbon neutral buildings and communities by 2030.

The theme of this conference, "Living Future" is an opportunity to share expertise and focus our energy on how green buildings and sustainable

communities can contribute to achieving these goals. Three things are instrumental to our success:

1. Speed – we must act fast and re-design our systems to facilitate rapid transformation;
2. Scale – we must determine how to apply green building practices to large building portfolios rather than building by building, and
3. Standards – we must engage all sectors of the industry in making LEED easier to use and rigorous so we continue to make measurable progress in reducing environmental impacts.

We have the chance to innovate and decide where to invest our efforts to have the most impact. Along with being home to some of the first green buildings, Cascadia is also home to tremendous talent and creativity. Over the next day, I look forward to being inspired and energized by your ideas, enthusiasm and solutions for accelerating green buildings and sustainability.

Thomas Mueller



Beauty and Inspiration

Bob Berkebile, FAIA

Principal, BNIM Architects

8:30am - 9:45am, Friday, April 27, 2007

Any list of accomplished, influential environmentalists and preservationists includes Bob Berkebile. Highly regarded by fellow professionals and recipient of numerous awards, Bob focuses on improving the quality of life in our society with the integrity and spirit of his firm's work. He is a founding Principal of BNIM Architects and brings over 37 years of experience to the architectural profession.

By combining his design and leadership skills, Bob has consistently created new approaches to holistic, integrated community building. He utilizes education, historic preservation, quality housing, mental health and public safety, and neighborhood conservation as tools to restore social, economic and environmental vitality. Bob is a board member of the U.S. Green Building Council, the Nature Conservancy and the Center for Global Community and has

been a juror and/or guest lecturer at numerous universities from Harvard to Rice to Cambridge University, United Kingdom.

Berkebile and his firm are setting new design standards for resource efficiency at both the building and community scales, including energy, materials and human resources, on a broad range of projects including Greening of the White House, Greening of the Pentagon, Greening of the Grand Canyon, two facilities at the University of Texas at Houston, and a 3,000-acre redevelopment in North Charleston, South Carolina.

As one of the nation's leading authorities in the field of sustainable design, Bob was the founding chairman of the AIA's National Committee on the Environment. He has conducted numerous sustainable design charettes and workshops for the National Park Service, the US Department of Energy, Federal Emergency Management Agency, and Canadian Provincial Architects. He has been particularly effective in assisting opponents with diverse attitudes to identify their common interest and collectively apply their resources for the common good. For this reason, local municipalities, national organizations,

universities, governors, U.S. Senators and Representatives, and organizations such as the National Trust for Historic Preservation, The Rockefeller Foundation, and the Urban Land Institute seek his advice and participation. He was a delegate to the Earth Summit in Rio and has presented lectures and workshops at international environmental conferences in Stockholm, Helsinki, Cambridge, Caracas, Vancouver, and Ottawa.



Morning Technical Training & Interactive Sessions

10:00am – 12:00pm, Friday, April 27, 2017

Achieving the Living Building Challenge is an ambitious goal for any project. In fact, achieving any section of the challenge shows true leadership. Join leading regional and national experts in technical break out sections as they discuss key strategies and ideas for how project teams could achieve this challenge, including examples from projects they know have met the specific requirements already. All aspects of the Living Building Challenge have been built somewhere already - just never all in one project!

Break out sessions include technical presentations by expert presenters and facilitators, interactive Q&A, and break out sessions to discuss needed tools, resources and information to inform the Living Building User's Guide and process as well as listing challenges, barriers and opportunities.

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Session 001: SITE DESIGN (Pavilion A)

An expert panel will review the site issues in the Living Building Challenge and get the audience involved in evaluating the tool.

Moderator: Deb Guenther
Principal, Mithun & Chair, Cascadia Board

Michelle Connor, Vice President, Cascade Agenda

Successful policy strategies for market driven growth management issues, including the Cascade Agenda and "Transfer of Development Rights".

Stuart Cowan, Partner, Autopoiesis

Financial incentives for ecosystem services and ecological restoration including carbon credits, and planning for a post-carbon future: from living buildings to living regions.

Cynthia Girling, Chair Landscape Architecture Dept, University of British Columbia

Monitoring and adaptive strategies at UniverCITY at Simon Fraser University in British Columbia for protection of habitat.

Session 002: MATERIALS (Shaw Room)

This interactive session will explore the environmental issues surrounding materials use and selection. An expert panel will facilitate a discussion of how designers and builders can remove the worst known offending materials, and reduce and offset the environmental impacts associated with the design and construction process.

Clark Brockman, Associate, SERA Architects, Cascadia Board

Convene session and provide context for material issues from the perspective of the Living Building Challenge. Discuss the embodied carbon footprint of building construction and the appropriate materials radius concept.

Julie Silas, Healthy Building Network

Present research on red list materials and Pharos, the only materials evaluation system to provide users with a 360 degree view of what is known about products and materials.

Ian Hanna, NW Natural Resources Group

Discuss the impacts of FSC Forestry, the strength of the standard and its impacts on global warming, as well as successful sourcing of FSC products.

Terry Gillis, Owner, Recovery One

Present strategies on cutting edge construction waste recycling systems and new products being manufactured in a closed-loop process.

Session 003: INDOOR ENVIRONMENTAL QUALITY (Fidalgo Room)

An expert panel will provide an overview of Living Building concepts as related to indoor environmental quality. Concepts such as thermal comfort, lighting, and modulating levels (of light, of temperature, perhaps also of acoustical performance), as well as biomimicry will be explored in this interactive session.

Paul Anseeuw, Stantec, Cascadia Board

Convene session and present indoor environmental quality topics relative to the Living Building challenge.

Judith H Heerwagen, Ph.D. JH Heerwagen & Associates

Discuss biomimicry as a means to achieving Living Buildings.

Barbara Erwine, Senior Consultant, Paladino & Company

Present means and methods for designing lighting, daylighting and the integration of the two to create energy and cost effective buildings.

Session 004: LIVING CENTER CHARRETTE (Lopez Room)

Help shape the future of Seattle Center! After learning about Seattle Center's current sustainability plan, participants will be divided into groups who will work collaboratively to create and present a number of solutions for a 'Living Center' – utilizing sustainable design concepts based on the Living Building Challenge and One Planet Living.

Peter Dobrovolny, Commercial Specialist, City of Seattle Green Building Program, Cascadia Board

Peter works with the private sector development community to fulfill the mission of the City's Sustainable Building Policy and other City of Seattle initiatives to accelerate green building in the private sector of Seattle.

Ralph DiNola, Principal, Green Building Services, Cascadia Board

Ralph is a nationally recognized facilitator who leads trainings, eco-charrettes and workshops on sustainability and green building strategies.

Afternoon Technical Training & Interactive Sessions

1:00 pm – 3:00 pm, Friday, April 27, 2007

Session 005: WATER (Pavillion A)

An expert panel will inspire participants through words and images, the many ways in which our built environment can try to achieve water independence at all levels - storm, grey, and black water.

Dale Mikkelsen, Manager - Planning & Sustainability SFU Community Trust, Cascadia Board

Convene session on the water component of the Living Building Challenge and provide presentation on natural stormwater management solutions for ecosystem and habitat health when development within sensitive urban watersheds is undertaken.

Chris Webb, PE, Principal, Chris Webb & Associates

A presentation outlining the design issues related to use of rainwater collection and re-use systems, including environmental benefits and concerns, regulatory issues, application to different project scales and building types, and example projects showing successes and lessons learned.

Mark Buehrer, Founder & Director, 2020 Engineering

A presentation focusing on the concept of Wholistic Engineering, visually illustrating how integrated problem solving allows a whole system design method that provides practical ecologically based solutions to grey water and black water remediation and reuse at the building scale.

Session 006: ENERGY (Shaw Room)

This interactive session will investigate how passive and active technologies contribute to the goals of net zero energy use in buildings. An expert panel will explore the design and technological implications to achieving this goal.

Mark Frankel, New Buildings Institute, Cascadia Board

Convene session and provide context for energy performance strategies such as lighting equipment and plug loads, and building envelope efficiency.

Lisa Rosenow, CDI Engineers

Discuss feasibility and implementation of thermal displacement ventilation strategies.

Tom Marseille, Principal, Stantec

Discuss passive design strategies such as natural ventilation, building orientation and shading based on real world examples.

Peter Alspach, Associate, ARUP

Present energy efficient active technologies, renewable energy systems as well as advanced facade systems and their implications on solar array sizing to meet net zero energy buildings.

Michael Hatten, SOLARC Architecture and Engineering

Share 25 years of experience in energy analysis including zero energy and net zero energy strategies.

Session 007: BEAUTY & INSPIRATION (Fidalgo Room)

Beauty is the ultimate test of good architecture. Beauty refers to the visual and sensory appeal of buildings. It is what Vitruvius called “delight.” Architectural delight can be found in a neatly patterned brick wall, a vaulted stone ceiling, or a tiny window emitting a stream of sunlight. Without beauty, a highly functional building is merely utilitarian without rising to the realm of architecture.

Dr. Freda Pagani, BArch, MES, PhD, Cascadia Board

Freda will discuss catalyzing human ingenuity for action towards a sustainable future.

Bob Berkebile, FAIA, Principal, BNIM

Bob Berkebile committed his life to sustainable design even before the term “sustainable” became a buzzword within the design and construction industry. For the past 30 years, he has committed his life to restoring social, economic and environmental vitality to our communities.

Session 008: LIVING CENTER CHARRETTE CONTINUED (Lopez Room)

A presentation of a number of solutions for a ‘Living Seattle Center’ utilizing sustainable design concepts based on the Living Building Challenge and One Planet Living from the morning session will be discussed. The session will continue with interactive group discussion and selection of the best alternatives to forward on to the Seattle Center and Mayor Nickels Century 21 Advisory Group for recommendations.

Peter Dobrovolny, Commercial Specialist, City of Seattle Green Building Program, Cascadia Board

Peter works with the private sector development community to fulfill the mission of the City’s Sustainable Building Policy and other City of Seattle initiatives to accelerate green building in the private sector of Seattle.

Ralph DiNola, Principal, Green Building Services, Cascadia Board

Ralph is a nationally recognized facilitator who leads trainings, eco-charrettes and workshops on sustainability and green building strategies.

*Problems can't be solved with
the same level of thinking that
created them.*

Albert Einstein

15 Minutes of Brilliance

Transformative Solutions for the Next Generation

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The world is full of big problems. What's needed now are big solutions. Brilliant solutions in fact. We stand at a unique moment of human history, where so much of what we cherish hangs in the balance based on our capacity to create change rapidly and in fundamental ways. As Albert Einstein so famously stated "problems cannot be solved by the same level of consciousness that created them". Somewhere out there is an idea that can create shifts in our culture and change the path we are on. Somewhere out there is brilliance waiting to be unleashed and an idea waiting to be shared. The Cascadia Region Green Building Council endeavors to be a small but integral player in the effort to redirect and reshape the relationship between the natural and built environment and humanity's role straddling the two. We can't do this alone. 15 Minutes of Brilliance is one small way that we hope to engage our membership to step up and share big picture solutions to change the built environment.

Some example of Brilliance? How about Gottfried's and Italiano's idea to form the US Green Building Council in the mid-nineties? How about Janine Benyus's idea to connect and share nature's lessons to the built environment? How about Ed Mazria's 2030 Challenge to address climate change or our own response- The Living Building Challenge? How about Wangari Maathai's simple but profound idea to begin the greenbelt movement in Africa? We are surrounded by brilliance each day, but most have no platform in which to share it with a wider audience.

Living Future 07 is now part of this solution.

If you've been thinking about something big - or something small with big consequences, then step forward!

"This integration also underscores the advantages of a computable building information model - a model that contains the necessary level of detail and reliability for performance analysis that can be done directly by designers for their own baseline energy analysis. The integration between the BIM and analysis software prevents the need to recreate the building geometry; the building information model room geometry and data are directly passed to analysis so the design professional can run a variety of analyses - without needing specialized skills, separate analysis packages, or separate models for each analysis. This tight integration allows design professionals to quickly and easily analyze alternative green designs."

- Jerry Jackson, Autodesk, on Performance by Design

"The LEED and living building structure provide a framework for how a building can be sustainable but it is difficult for the average person to translate that into their lives and actions. In order for me to make some real progress toward sustainable living I have developed 11 sustainability commandments to keep me on track. 1. Thou shall not covet thy neighbors riding lawnmower. 2. Honor the past and protect the future. 3. Thou shall not work more than 20 minutes from home...."

-Andy Rasmussen, Weisman Design Group on My Living Challenge

"The 2 for 1 Housing Programs aims to raise funds leveraged during the sale of a home in a developed country to fund new housing in a developing country.

Concept: At the point of purchase, a homebuyer is provided the option to donate \$1 for every sq. ft. in their new home to an organization planning and constructing new housing in a "Partner City" in a developing country.

Through this transaction, the homebuyer has 'bought' 2 homes for the price of 1. The 2 for 1 New Housing Program is a replicable model for ALL cities in developed and developing countries. A website would contain information package for setting up a program in interested cities."

-Peter Russell, Holland Barrs Planning Group on "2 for 1" New Housing Program

"I have come to the realization that in order to better convince others of the importance of sustainability I need to first commit to it in my personal life. I have also noticed that a lot of design consultants talk sustainability but don't walk it."

- Alicia Silva

"...Green building is not yet truly mainstream. A significant portion of the market – probably at least 75% - still needs to be educated about the principles and practice of green building.

To make it mainstream, ASHRAE/IESNA/USGBC are creating a model building code that provides a baseline regulatory standard for building high performance green building – Standard 189. Using LEED as a key resource, the standard is to be an ANSI-accredited standard that can be incorporated into local building codes in the future.

Unlike LEED, which has prerequisites but also provides design teams flexibility to choose what credits they want to pursue, Standard 189 represents one big prerequisite, and may in fact be adopted as such by LEED.

Every requirement in Standard 189 must be meaningful, achievable and enforceable. Our hope is that it truly creates a new norm for the mainstream through its adoption into local building codes, much as sprinkler systems for fire protection and ADA design has."

-Claudia Newman, Bricklin, Newman, Dold & Tom Marseille, Stantec on Bringing Green Building Design to the Mainstream

"Change won't happen unless there are opportunities to make a living without adversely affecting community & environment. Research shows that once a large system has been corrupted, it's almost impossible for it to change itself...Instead, the best method for change-making is to provide space outside the dominant system to develop new models. Sustainable Connections: We see our community of businesses in NW Washington as a laboratory for innovation and economic transformation. Within this place we work with local and independently owned business owners, the people with the resources and autonomy to make any transformational change in their business that they can imagine, from re-examining how to grow, distribute, and sell our food, where we buy goods and services, how we consume energy, how we build homes, and even, how we define success in business."

- Derek Long, Sustainable Connections

"Banks may disagree, city planners may doubt, but one developer sees the past as a point of discovery for our future. Its all a part of Steven Ribeiro's concept of "retrofuturism". What once was lost has been rediscovered and reengineered to give us a glimpse of the future in a world of diminishing and expensive non-renewable energy. His combination of off-the-shelf, understandably simple and appealing technologies are being packaged up to create as many new "Earth Stewardship" converts as possible. Experience tells us that people are comforted by what they know – the nostalgic past of a bygone era."

- *Steven Ribeiro*

"The average American eats three fast food hamburgers every day. He or she also uses about 50 gallons of water taking a shower, works over 50 hours every week, and drinks 49.3 gallons of soda pop each year. Considering those facts, I propose that we would be a lot better off if we aspired to be below average...Through the Be Below Average website, daily BBA emails or txt messages would challenge Americans to evaluate their consumptive habits, make changes to lower national averages, and in turn improve their own lives, as well as those of their neighbors."

- *Jeremy Reding, Boxwood*

"Ehrlich and Holdren's equation that states that $I = PAT$ (Environmental Impact/ Degradation is the product of Population times affluence times technology) is correct, but misstated because activities that have a positive impact of environment result in a negative number. William McDonough attempted to correct this error in perception when he moved technology to the denominator; $I=PA/T$. This equation is more promising because it indicates that technology has the capacity to diminish the impact of a large, affluent population. The number for environmental degradation is a smaller, but it is still a positive number. We need a new equation with which we can evaluate our actions. I propose an equation; $R = PAI$ (Restorative contribution to the eco-system = Population size times total Application of technology/ person times Impact of technology). Applications of restorative technology contribute to the vitality of the eco-system results in a positive number. Applications of technology that are a detriment to the health of the eco-system result in a negative number."

- *Max Richter, Stantec*

"Magnesium is a major plant nutrient and is required for photosynthesis upon which all life depends (Mg is to chlorophyll what iron (Fe) is to a red blood cell). MGO products also 'breathe' having a near 100% permeability. Thus, it seems natural that the green movement expands the use of this healing metal into buildings and infrastructure made to last millennia...Can you imagine OSB board that is fireproof, waterproof and does not expand in the presence of water? Also, it could be made with other fiber or waste products and while gaining strength and durability. No forests need be cut. Firewall, floor and wallboard systems currently made from MGO are extremely strong, fire-proof, water-proof, fungi-proof and can have superior insulating and sound absorption qualities, based on their design specifications. The production of MGO boards from refined materials takes no energy (exothermic), absorbs CO₂ and produces no waste (tailings can be reincorporated into the next batch of product). The dust from the installation process is a plant nutrient and is completely non-toxic."

- Benjamin Cook, e-green building systems

"Heat Pumps produce 3 to 4 or even 5 times the heat energy for every unit of energy put in. Using heat pumps today for domestic hot water and space heating reduces GHG emissions and makes the Living Building possible since there is no Natural Gas needed. Dedicated Heat Recovery (Heat Pump Boilers) systems are available and working on buildings across the country today. Buildings using the technology will have an advantage in a carbon constrained economy since they can run on green or site produced electricity. Shifting our thinking about heating domestic hot water and buildings could save millions of tons of carbon over the next 20 years and put more buildings in a position to meet the Living Building and 2030 Challenges."

- Art Smith, Canesco Energy

"What I call "The 2% Solution" for creating the transportation system we need for the next 100 years. The fundamental principles include: • About 4% of the land in this country is covered by the built environment, half of that for the highway/parking system. By replacing this vast system, and re-ordering our land use priorities, we can meet all of our current needs on the already built upon 2% of the land. Future additional needs for housing and commerce can be met with no additional use of virgin land. • All urban settlements must be internally connected by appropriate scale transportation. This means all settlements must be accessible by bicycle, walking, and various forms of transit, including such things as Neighborhood Electric Vehicles where appropriate to the scale of the particular urban environment. Our urban designs must evolve toward multi-use neighborhoods where the need to travel to meet our daily needs overall is greatly reduced."

-Bob Ransom

Cascadia - Living Future

Speed Networking

Today I met...

Name:

Name:

Name:

Company:

Company:

Company:

36

Email:

Email:

Email:

Phone:

Phone:

Phone:

Notes:

Notes:

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Speed Networking

Today I met...

Name:

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Cascadia Big Bang, Fellowship Awards & Gala Celebration

Seattle Center, Pavilion A, 4:45 pm

Cascadia is an innovative organization with a big heart, a talented board and staff, and an army of close to 7,000 individuals in our supporting companies and agencies. United we can make incredible things happen. 2007 marks a year of new beginnings for the organization – new staff, new programs, and this, the first annual Living Future regional conference.

Tonight, Cascadia celebrates a number of huge accomplishments, and unveils our new initiatives at a regional and national level. But first, help us welcome in Cascadia's newly elected Board of Directors, celebrate our regional branches, and present achievement awards to the dynamic individuals who've invested a lifetime of blood, sweat and tears fighting for the environment on our behalf.

2007 Cascadia Fellows – Lifetime Achievement Award

Cascadia is pleased to announce the creation of a new fellowship program to celebrate exemplary leadership in the Pacific Northwest in the field of sustainable design and development. A Cascadia Fellow is someone who:

- Has made significant contributions to the green building movement either regionally, nationally or internationally.
- Has made significant contributions to Cascadia either directly or indirectly through their service to the larger movement.
- Is a recognized leader within the greater green design community.
- Has resided within the Northwest (BC, Oregon, Washington) at some point during their professional career for at least two years – although current residency is not a requirement.
- Embodies the spirit of the Cascadia Principles in their life and work.

Lynne Barker, Sustainable Communities Planner, City of Seattle



Lynne works for the Department of Planning and Development, and is responsible for building sustainable communities. A trailblazer who has influenced change at the local, regional, and national level, Lynne began working in the building industry in 1978 when she became one of the first women in Seattle to join the local carpenter's union. In 1995 she created her first green job by developing Sellen Construction Company's Sustainable Building Program, which demonstrated the business case for construction waste recycling and established long-term markets for recycled materials. In 1996 she co-chaired the US Green Building Council committee that helped launch LEED. She served on the USGBC board for six years and co-founded the Cascadia Region Green Building Council.

2007 Cascadia Fellows – Lifetime Achievement Award

Rob Bennett, Clinton Climate Initiative



Rob recently joined the Clinton Climate Initiative, a program of partnering with the world's largest cities to reduce CO2 and other emissions through the implementation of best practices, including smart growth, green buildings, and green infrastructure; technology transfer through the bulk purchasing of energy efficient equipment; and development of consistent and universal emissions reporting. Rob previously worked for the cities of Portland and Vancouver, BC for 8 years developing and implementing sustainable development initiatives. The work focused on enhancing the cities' commitment to sustainable development principles, practices, and technologies. In Vancouver, Rob led the City's comprehensive Green Building Strategy and facilitated green building and infrastructure activities for the 2010 Olympic Village. In Portland, Rob founded the City's Green Building program, G/Rated.

Logan Cravens, Director of Green Building Resources, SERA Architects



Logan has over 18 years experience in architecture and education with a special emphasis in environmental design issues. In addition to project management on Federal Courts projects, Logan advises SERA in the implementation of sustainable policies and procedures. Since 1992, Logan has been a recognized leader in Portland's sustainable design community. He is a past chair of the AIA/Portland Chapter Committee on the Environment. A founding board member and past president of the Cascadia Region Green Building Council, Logan is also a LEED™ Accredited Professional and SERA's representative to the U.S. Green Building Council. He is a contributor to the Oregon Natural Step Network Construction Industries Task Force and numerous construction trade publications. Since 1997, Logan has taught a course on the theory and practice sustainable architecture in the Department of Architecture at Portland State University.

Kevin Hydes, Vice President of Buildings Engineering, Stantec



Kevin is the Chair Elect of the World Green Building Council. He served as the Chair of the USGBC for 2005-2006, and co-founder of the Cascadia Region Green Building Council and Canada Green Building Council. He is Vice President of Buildings Engineering and the Sector Leader of Sustainable Design at consulting engineers Stantec, and the former President and CEO of Keen Engineering. Hailing from Leeds in the UK, Kevin is a natural leader and a community icon in the field of sustainability. He has focused on green design and advancing its cause for the past 15 years. He is an Honorary Member of the Royal Architectural Institute of Canada and the Architectural Institute of BC, an Adjunct Professor at McGill University School of Architecture, and the Liaison Officer for the Association of Consulting Engineers of Canada and the CaGBC.

2007 Cascadia Fellows Continued

Jeff Wartelle



Jeff was a Signatory to the Articles of Incorporation, a Founding Officer and the Registered Agent for the Cascadia Region Green Building Council

from its 1999 inception through 2005. As Director of Strategic Initiatives and Partnerships for the Certified Forest Products Council, Jeff was an early participant in the emerging USGBC and drafted the proposal that was to become LEED Credit MR7 for Certified Wood. Prior that, he was a Founding Director of the Forest Products Buyer's Group, a non-profit created to introduce independent forest certification in the North American marketplace. Jeff was raised in Seattle when a trip to Redmond still meant a ride in the country and he continues to envisage a renaissance of the electric rails of his parents' era. He currently splits his residency between Portland, Oregon and Adelaide, South Australia.

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Founders of Cascadia

Cascadia would like to recognize the innovators in this movement and applaud the effort of the original directors on the board of the Cascadia Region Green Building Council in 1999/2000.

Lucia Athens	Theresa Koppang
Lynne Barker	Paul Olson
Rob Bennett	Stewart Simpson
Logan Cravens	Paige Sorenson
John Echlin	Amanda Sturgeon
Nathan Good	Anne Thorpe
Bert Gregory	Jeff Wartelle
Peter Hurley	James Wise
Kevin Hydes	Jerry Yudelson

Thanks for your leadership in creating change in the Cascadia region that is inspiring a revolution.

Time to Celebrate!

Rub elbows with regional sustainability heroes, mingle with exhibitors, and dine on incredible organic food and drink catered by FOODZ Catering with live entertainment and dancing all night long as Cascadia welcomes special guests:

Thomas Mueller, President of the Canada Green Building Council

Kevin Hydes, Chair-Elect of the World Green Building Council

Bill Walsh, Healthy Building Network

Bob Berkebile, BNIM Architects

and many more!

Cascadia Board, Senior Leadership Team, Staff

Board

Deb Guenther, Chair
Mithūn

Kathy Wardle, Vice-chair
Busby, Perkins + Will

Clark Brockman, Secretary
SERA Architects

Randell Leach, Treasurer
ShoreBank Pacific

Paul Anseeuw
Stantec

Johanna Brickman
Zimmer Gunsul Frasca

Rod Butler
Zeck Butler Architects

Teresa Coady
Bunting Coady Architects

Ralph DiNola
Green Building Services

Peter Dobrovolny
City of Seattle, Green Building Team

Rob Fallow
Fortis Construction

Mark Frankel
New Buildings Institute

Brenda Martens
Recollective

Dale Mikkelsen
Simon Fraser University

Freda Pagani, PhD
University of British Columbia, Sustainability Office

Dennis Wilde
Gerding/Edlen Development

Senior Leadership Team

Jason F. McLennan, Chief Executive Officer

Brandon Smith, Chief Operating Officer

Marni Kahn, Washington State Director

Gina Franzosa, Oregon State Director

Jessica Woolliams, British Columbia Director

Staff

Meagan Myers, Assistant to the CEO

Angie Morgan, Washington State Assistant Director

Bob Potter, Administrative Assistant

Branches and Volunteers

Washington

1201 Alaskan Way #200
Seattle, WA 98101
206.223.2028 (ph)
206.623.7005 (fax)

Seattle

Colleen Hazelrigs, Co-Chair
Doug Smith, Co-Chair

Tacoma/Olympia Branch

Dale Anderson, Chair

Inland Branch

Jake Deering, Co-Chair
Chuck Crane, Co-Chair

Emerging Green Builders

Clara Simon, Seattle
Priyanka Tyagi, Seattle
Carolyn Forbes, Seattle
Stacey Glenewinkel, Bellingham

Oregon

721 NW 9th Ave. #280
Portland, OR 97209
503.228.5533 (ph)
503.914.1749 (fax)

Portland Branch

Chris Forney, Co-Chair
Tom Archer, Co-Chair

Eugene Branch

Scott Stolarczyk, Chair

Emerging Green Builders

Chessa Adsit-Morris, Portland
Emily Rankin, Portland

British Columbia

1575 Johnston Street
Vancouver, BC V6H 3R9
604.682.5960 (ph)
604.682.5961 (fax)

Vancouver Branch

Eesmyal Santos Brault, Co-Chair
James Emery, Co-Chair

Victoria Branch

Thompson Okanagan Branch

Emerging Green Builders

Michael Driedger, Vancouver

100 Friends of Cascadia

Cascadia's 100 Friends of Cascadia program grew to over 100 Friends in April 2007! This annual sponsorship program continues to fund our cutting edge programs that improve the sustainability of the built environment and quality of life in Washington, Oregon and British Columbia.

Our program is simple – we collaborate with the “best in class” partners whose values align with Cascadia's to address the ongoing and continually evolving needs of the green building and sustainable communities marketplace in Washington, Oregon and British Columbia. As a cross-border advocacy organization we bring a unique perspective to green building by taking a bioregional approach to problem solving.

Since 1999, the Cascadia Region Green Building Council has been the premier green building organization in the Cascadia bioregion concerned with making change in the built environment for positive environmental impact. We are a proven leader in influencing state sustainable development policy and offer

innovative, creative programs, tools and services designed to make significant change out of all proportion to our size, by acting as a lever for organizations in both the private and public sectors. Our members and 100 Friends include:

- architects, engineers, landscape architects, interior designers, indoor environmental quality specialists, green building specialists
- municipalities, state government, policy and decision makers
- contractors, developers, utilities, building owners and facility managers
- lenders, real estate professionals, appraisers
- industry associations, non-profits, and more!

On behalf of our talented board, hardworking staff, exceptional volunteer branches and our members,

Thank you!



Perkins + Will Offices
LEED CI Platinum
Seattle, WA



Gulf Islands National
Park Reserve
Operations Centre
LEED CI Platinum
Sydney, BC



Gerding Theater at the
Portland Armory
LEED NC Platinum
Portland, OR

Cascadia - Living Future

100 Friends of Cascadia

Living (\$25,000 +)



Platinum (\$10,000 +)



Gold (\$5,000 +)



CALLISON



Autodesk®



Turner
Building the Future



Environmental
Design+
Construction



PERKINS
+ WILL

Silver (\$2,000 +)

Abacus Engineered Systems	NW Construction magazine
Ankrom Moisan	Opsis Architecture
ARC Architects	OTAK
Avista	PAE Consulting Engineers
BC Building Corporation	RAFN
BN Builders	Shared Services BC
Boxwood	ShoreBank Pacific
DLR Group	Skanska
Ecotone Publishing	Structural Engineer magazine/CE News
Flack + Kurtz	Swenson Say Faget
GGLO	Thomas Hacker Architects
Green Building Services	UniverCity - The Community at Simon Fraser
Hargis Engineers	Wood Harbinger
King County	Zeck Butler Architects
McKinstry Co.	Zimmer Gunsul Frasca
Miller/Hull	
NW Architectural Company	

Certified (\$1,000 +)

2020 ENGINEERING	Mahlum Architects
AHBL	Notkin Mechanical Engineers
Antron	O'Brien & Company
ARUP	Oregon State University -Construction Engineering Management
Ashforth Pacific	PACE Engineers
BLRB Architects	Paladino & Company
BOORA Architects	PBS Engineering
BRC Acoustics	PCL Construction Services
Candela	Portico Group
CDi Engineers	Portland Office of Sustainable Development
Coffman Engineers	Portland Office of Sustainable Development
Coughlin Porter Lundeen	Radiance Lighting Design
Egis Certified	Read Jones Christoffersen
Environmental Building Supplies	Redside Development
Environmental Home Center	Sellen Construction
Fletcher Farr Ayotte	SMR Architects
Flexcar	Solaris Real Estate
Fortis Construction	Sunset Air
Glacier NW	Sustainable Industries Journal
Group Mackenzie	The Threshold Group
Interface Engineering	Unico
Kearsley Construction	University of Washington
KPFF	VIA Architecture
LMN Architects	Walsh Construction
Lorig Associates	


Living Future Sponsors



Canada Green Building Council (\$10,000)

Additional Sponsors

Betterbricks	Starbucks
Callison	Wood Harbinger
CDI Engineers	ZGF
City of Seattle	
Environmental Building News	
Gerding/Edlen Development Company	
King County Green Tools Program	
McGraw-Hill	
Mithun	
O'Brien & Company	
RAFN	



“The task we face is daunting. Working separately, we could accomplish something significant in each of our respective spheres. But by working together, we actually have a chance to influence the course of history.”

- Ed Mazria

Living Future Exhibitors

Break Point Books

Founded in 1993, BreakPoint has been the single source for books and retail solutions for more than 1000 conferences and events around the world. Conference and trade show retail programs are our only business.

More experience, more expertise, more excitement, and more satisfied attendees. Our comprehensive retail programs work hard to enhance your event – before, during and after. Our longstanding relationships with publishers around the world ensure title selections that fully complement your program and your attendees' desire to reinforce their learning experience. All on-site book programs are customized to meet the unique requirements of each individual event.

www.breakpointbooks.com

Collective

As you walk into Collective's spacious 5000 square foot showroom, located in the heart of charming historic Ballard, you will be met by an eclectic, thoughtful selection of unique vintage furnishings.

"Is this stuff new?" This is probably not a question that most vintage furniture store proprietors hear terribly often. However, it is one that Collective employees hear practically every day, as our stylish, refurbished vintage modern furniture often elicits confused reactions from first-time viewers. In doing this, we are promoting sustainability within the furniture industry. We offer a viable alternative to waste, promoting sustainable living, and providing our clients with stylish, unique, high quality vintage furniture and accessories that, given the opportunity, will likely last longer than they do.

www.collectiveinballard.com

NW Construction Magazine

Northwest Construction is the only monthly magazine providing comprehensive local coverage on heavy engineering, highway, building and industrial construction news throughout the states of Oregon and Washington. Each issue spotlights many of the industry's most visible projects and hottest topics.

www.northwest.construction.com

Living Future Exhibitors

Bamboo Hardwoods

Bamboo Hardwoods would like to outreach to your audience the truths, myths and future of bamboo products in our society. Bamboo Hardwoods has been providing is locally based and been providing bamboo products, such as flooring, poles and plywoods, for over 12 years.

www.bamboohardwoods.com

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Boston Architectural College – Sustainable Design Certificate

Sustainable design has become a driving force in the design professions, and our courses offer the opportunity to become an educated participant in this movement. Courses are available both on campus, and fully online in partnership with BuildingGreen, Inc., a trusted source of unbiased information for building industry professionals concerned with environmental performance.

www.the-bac.edu

Healthy Building Network/Pharos Project

The Pharos Project is offered as a navigational aid to those searching for building materials that are good for people and the planet. Pharos signals an ideal endpoint which stays constant even as we adjust our own positions to our progress, or adapt to changes in the technology we use, or the conditions we face. Pharos is designed to encourage multiple routes and accommodate varied perspectives on how to reach our shared ideal.

www.pharosproject.com

Living Future Exhibitors

Meyer Wells, Inc

Meyer Wells makes modern furniture and architectural materials with northwest character from local woods. We are well-networked with arborists and small boutique sawmills throughout the northwest who provide us with a broad range of locally grown, mostly urban trees that have been salvaged from burn piles and kept from the chippers. Our aim is to find the highest use for these local woods and to help reduce demand wood imported from outside of our bioregion. We provide a superlative resource for the design community in creating a collaborative, sustainable vision for northwest commercial and residential interiors.

www.meyerwells.com

E-Green Building Systems

Dragonboard and Strong Enviroboard (green interior/exterior wall and ceiling systems made from Magnesium Oxide (derived from sea salt) inert, fire-water proof, mold proof board. KEIM Liqium Mineral Coatings made from potassium silicates completely inert, 100% UV proof water-based coating for inorganic surfaces, "Green" cements from Bindan ADA tiles and pervious cement that use only 20% the energy and release only 20% the CO2 of Portland, Mirical Cover SiO2 sealant (non-voc, water based, non-toxic, lasts 30-50 years) graffiti guard, paint life extender etc.

www.e-greenbuildingsystems.com

Just Green

Just Green's mission as a manufacturer's rep is to supply innovative, contemporary, eco-friendly furnishings to the Pacific Northwest design community working with sophisticated clients living greener lifestyles.

We source furnishings that meet LEED® for Commercial Interiors and LEED for Homes, King County Master Builder's Association Built Green™ program, and ideas from William McDonough & Michael Braungart in their book, "Cradle to Cradle." Additionally, the products must be exceptionally well engineered, reminiscent of an urban loft-like aesthetic, and contemporary in design.

www.justgreenseattle.com

Living Future Exhibitors

Windfall Lumber

Windfall Lumber, born out of the 1996 ice storm here in Olympia, Washington, has been committed to sustainable forest products from day one. Our intent is to provide quality products that are sustainably harvested but are also affordable. Why do we do this work? Well, to us, it would be too easy to simply “sell wood”. We strive to build social, natural, and economic capital in our business. Put another way, we try to 1) create a better environment, 2) improve one’s own community through creation of jobs and better lives for people around us, and 3) engage in growing the traditional economy.

www.windfalllumber.com

PacifiCAD

We are the first Autodesk reseller in the world working directly with a developer using Autodesk applications on LEED Certified Platinum Design and Construction projects. PacifiCAD Incorporated has been providing computer aided design and engineering (CAD/CAE) software and related services to the greater Inland Northwest for over 16 years.

www.pacificad.com

Green Building Services, Inc.

We are a multi disciplinary professional consulting practice dedicated to helping drive a change toward design, construction, and facility management practices that positively affect health, vitality, and economics of the communities in which we live and work. GBS offers a full range of services from design consultation and technical services to sustainability audits and LEED project management. We intend to showcase our company, our ‘lessons-learned’ and connect with the growing network of people and organizations.

www.greenbuildingservices.com

Living Future Exhibitors

GreenWorks Realty

We aim to educate and promote the community on benefits of GREEN homes and healthy living. GreenWorks Realty is a full-service real estate agency for both green and traditional properties. We serve communities throughout Washington with agents in Seattle, Olympia, Whatcom and Skagit County. GreenWorks is proud to be the first regional company to specialize in green and community-focused housing. Our vision is to create a more sustainable world through promoting green building practices that support human and environmental health and vitality.

www.greenworksrealty.com

Interface Engineering

As a multidisciplinary MEP firm, Interface Engineering's mission is to achieve more with less. With an eye toward integrated design, we collaborate with architects and owners to build healthy environments for life. Our exhibit will focus on the innovative green strategies we bring to each project, including the application of emerging sustainable technologies within a conventional design budget.

www.interfaceengineering.com

JohnsonDiversey

'Our intent would be to show how Healthy High Performance Cleaning can complement a green designed building with best practices, both by reducing the life-cycle impact of the chemicals used, but also by a wide variety of behavioural and procedural changes. The Healthy High Performance Cleaning Program draws on JohnsonDiversey's legacy of environmental stewardship and, in particular, the experience gained achieving LEED Gold EB in the world Headquarters. JD also proudly participates at the highest levels with the USGBC.

www.johnsondiversev.com

Greening Our Event

AIA Seattle COTE and Cascadia are committed to minimizing the environmental impact of Living Future through:

- Decreasing the amount of solid waste produced by the event;
- Reducing energy and water consumption at the event;
- Eliminating the use of harmful chemicals at or for the event; and
- Minimizing or off-setting harmful emissions resulting from transportation and energy consumption associated with the event.

To do this, we've used media and electronic technology to cut down our paper use. We've created a conference web site; we offer electronic registration and confirmation; and advertise using the web and email. All Living Future materials are published on recycled paper, using vegetable-based inks, and on both sides of the page.

Our caterers, FOODZ Catering and 12 Baskets utilize locally grown, organic produce and have provided primarily vegetarian meals. 12 Baskets is a member of Puget Sound Fresh, a King County Agriculture Commission program to encourage consumers, wholesalers, retailers and restaurants to purchase locally-grown products.

Seattle Center provides recycling services for paper, metal, plastic and glass. Seattle Center will minimize energy use turned off the lights and HVAC systems in rooms that are not in use.

We selected Seattle, in the heart of the Cascadia bioregion to reduce distances traveled by speakers and delegates. The Seattle Center is in the heart of Seattle, with many hotels and bus lines within walking distance.

To offset the harmful greenhouse effects of CO2 resulting from attendee travel and energy consumption during Living Future, AIA Seattle COTE and Cascadia has arranged to offset CO2 emissions through a local non-profit.

Living Future Resources

AIA Seattle

<http://www.aiaseattle.org>

Architecture 2030

<http://www.architecture2030.org>

Cascadia Region Green Building Council

<http://www.cascadiagbc.org>

City of Seattle

<http://www.seattle.gov/environment>

Collective

<http://www.collectiveinballard.com>

The Copy Company

<http://www.thecopycompany.com>

David Korten

<http://www.davidkorten.org>

Environmental Home Center

<http://www.environmentalhomecenter.com/home.shtml>

FOODZ Catering

<http://www.foodzcatering.com>

Green Building Services

<http://www.greenbuildingservices.com>

Kind County Green Building Program

<http://www.metrokc.gov/dnrp/swd/greenbuilding>

Living Earth Landscapes

<http://www.livingearthlandscapes.com>

Mosler Lofts

<http://moslerlofts.com/>

Olympic Sculpture Park

<http://www.seattleartmuseum.org>

Paladino & Company

<http://www.palcon.com>

Proline AV

<http://www.proline-av.com>

Seattle Center

<http://www.seattlecenter.com>

Twelve Baskets Catering

<http://www.twelvebasketscatering.com>

Urban Green

<http://www.urbangreenresource.org>

Yes! Magazine

<http://www.yesmagazine.org>

Seattle Center Map

Breakout rooms

Living Future

