



Materials Matter

October 14, November 4, December 2, January 13, February 3 | Bertha Knight Landes Room at City Hall | 600 4th Avenue | Seattle | 98104

** all sessions/speakers subject to change*

PROGRAM: FRIDAY, OCTOBER 14, 2016

Session I: Healthy Planet: Materials + Environment

- 8:00 – 8:30** **REGISTRATION + MORNING REFRESHMENTS**
- 8:30 – 8:35** **WELCOME**
Katie Kemezis | Program Manager, AIA Seattle
- 8:35 – 8:45** **INTRODUCTION**
Heather Burpee | Research Assistant Professor, University of Washington's Center for Integrated Design
- 8:45 – 9:30** **HEALTHY MATERIALS OVERVIEW**
Bradley Guy LEED AP BD+C, Assoc. AIA | Associate Professor of Practice, The Catholic University of America
- 9:30–10:30** **ENVIRONMENT IMPACT OVERVIEW**
Dr. Lauren Heine | Executive Director, Northwest Green Chemistry
- 10:30–10:40** **BREAK**
- 10:40–11:15** **ENVIRONMENT IMPACT CASE STUDY: OCEAN ACIDIFICATION**
Dr. Jan Newton | Affiliate Assistant Professor, University of Washington & Co-Director, Washington Acidification Center
- 11:15–11:35** **PRIORITIZING ENVIRONMENTAL IMPACTS ACTIVITY**
Kathrina Simonen | Associate Professor, University of Washington & Founding Director, Carbon Leadership Forum
- 11:35–12:35** **ENVIRONMENTAL TOOLS AND APPLICATIONS**
Bradley Guy LEED AP BD+C, Assoc. AIA | Associate Professor of Practice, The Catholic University of America
- 12:35–12:45** **WRAP UP**
Kathrina Simonen | Associate Professor, University of Washington & Founding Director, Carbon Leadership Forum

PROGRAM: FRIDAY, NOVEMBER 4, 2016

Session 2: Healthy People: Materials + Human Health

- 8:00 – 8:30** **REGISTRATION + MORNING REFRESHMENTS**
- 8:30 – 8:35** **WELCOME**
Katie Kemezis | Program Manager, AIA Seattle
- 8:35 – 9:00** **INTRODUCTION**
Dr. David Kalman | Professor, Department of Environmental and Occupational Health Sciences, UW
- 9:00 – 10:30** **UNDERSTANDING THE SCIENCE OF HEALTH**
Catherine Bobenhausen | Senior Industrial Hygienist, Vidaris, Inc



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- 10:30-10:40 **BREAK**
- 10:40-11:40 **OVERVIEW OF TOOLS & ACTIVITY**
Alicia Uhlig Daniels | Living Community Challenge + Policy Directory, International Living Future Institute
- 11:40-12:00 **MATERIALS AND ADVOCACY**
- 12:00-12:40 **USING TOOLS AND DATA**
- 12:40-12:45 **WRAP UP**
Heather Burpee | Research Assistant Professor, University of Washington's Center for Integrated Design

PROGRAM: FRIDAY, DECEMBER 2, 2016

Session 3: Tools of the Trade: Assessment + Implementation

- 8:00 – 8:30 **REGISTRATION + MORNING REFRESHMENTS**
- 8:30 – 8:35 **WELCOME**
Katie Kemezis | Program Manager, AIA Seattle
- 8:35 – 9:00 **INTRODUCTION OF TOOLS RELATED TO THE ENVIRONMENT/REFLECTION/INSPIRATION**
Kathrina Simonen | Associate Professor, University of Washington & Founding Director, Carbon Leadership Forum
- 9:00 – 9:30 **LIFE CYCLE ASSESSMENT TOOLS OVERVIEW**
Kathrina Simonen | Associate Professor, University of Washington & Founding Director, Carbon Leadership Forum
- 9:30 – 10:20 **LIFE CYCLE ASSESSMENT IMPLEMENTATION**
Kathrina Simonen | Associate Professor, University of Washington & Founding Director, Carbon Leadership Forum
- 10:20-10:30 **WRAP UP – TOOLS RELATED TO THE ENVIRONMENT**
Kathrina Simonen | Associate Professor, University of Washington & Founding Director, Carbon Leadership Forum
- 10:30-10:40 **BREAK**
- 10:40-11:00 **INTRODUCTION OF TOOLS RELATED TO HUMAN HEALTH/REFLECTION**
Joel Ann Todd | Education and Technical Director, Health Product Declaration Collaborative
- 11:00-12:30 **UNDERSTANDING TOOLS & DEMONSTRATION**
Joel Ann Todd | Education and Technical Director, Health Product Declaration Collaborative
- 12:30-12:40 **WRAP UP – TOOLS RELATED TO HUMAN HEALTH**
Joel Ann Todd | Education and Technical Director, Health Product Declaration Collaborative
- 12:40-12:45 **CONCLUSION**
Katie Kemezis | Program Manager, AIA Seattle



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PROGRAM: FRIDAY, JANUARY 13, 2017

Session 4: Just Do It: Strategies for Projects

8:00 – 8:30 REGISTRATION + MORNING REFRESHMENTS

8:30 – 8:35 WELCOME
Katie Kemezis | Program Manager, AIA Seattle

8:35 – 9:00 INTRODUCTION
Alexandra Ramsden | Principal/Director, Sustainability, Rushing

9:00 – 10:00 **Materials Matter: Strategies for Projects**
Max Richter AIBC, MRAIC, LEED AP® BD+C | Senior Architect, Associate, Co-Director Materials Performance Lab, Perkins+Will

10:00–10:10 BREAK

10:10–10:55 **PRACTICE INTEGRATION – ROLE PLAYING PANEL**
Moderator: Christopher Meek AIA, IES | Associate Professor, University of Washington & Director, Integrated Design Lab
Chris Hellstern | LFA | LEED AP BD+C | CDT, The Miller Hull Partnership
Beth Stroshane | Managing Partner, Applied Building Information
David Walsh | Preconstruction Sustainability Manager, Sellen Construction

10:55–11:40 **STRATEGIES FOR PROJECT ACTIVITY**
Max Richter AIBC, MRAIC, LEED AP® BD+C | Senior Architect, Associate, Co-Director Materials Performance Lab, Perkins+Will

11:40–12:40 **INTEGRATING MATERIALS: PROJECT CASE STUDIES**
Moderator: Christopher Meek AIA, IES | Associate Professor, University of Washington & Director, Integrated Design Lab
Melissa Balestri CSI, CCS | Specifier, ZGF Architects
Chris Hellstern | LFA | LEED AP BD+C | CDT, The Miller Hull Partnership
David Walsh | Preconstruction Sustainability Manager, Sellen Construction

12:40–12:45 **WRAP UP**
Christopher Meek AIA, IES | Associate Professor, University of Washington & Director, Integrated Design Lab

PROGRAM: FRIDAY, FEBRUARY 3, 2017

Session 5: Beyond Transparency: Materials Disclosure + Practice

8:00 – 8:30 REGISTRATION + MORNING REFRESHMENTS

8:30 – 8:35 WELCOME
Katie Kemezis | Program Manager, AIA Seattle

8:35 – 9:00 INTRODUCTION
Nadav Malin | President & CEO, BuildingGreen

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9:00 – 10:00 MATERIALS TRANSPARENCY & RISK

Nicole DeNamur | Attorney, Pacifica Law Group & Affiliate Instructor, University of Washington

10:00–10:10 BREAK

10:10–11:55 IMPLEMENTING TRANSPARENCY/DISCLOSURE VS. TARGETING IMPROVEMENTS & ACTIVITY

Moderator: Heather Burpee | Research Assistant Professor, University of Washington's Center for Integrated Design

Edward Clark LEED AP BD+C | Associate and Sustainable Designer, ZGF Architects

Tien Peng | Vice President of Sustainability, NRMCA

11:55–12:40 MATERIALS IN CONTEXT

Nadav Malin | President & CEO, BuildingGreen

12:40–12:45 WRAP UP

Heather Burpee | Research Assistant Professor, University of Washington's Center for Integrated Design

SPEAKER BIOS



Catherine Bobenhausen | Senior Industrial Hygienist, Vidaris, Inc.

Catherine Bobenhausen is Senior Industrial Hygienist with Vidaris, Inc. in New York City. She is an Authorized GreenScreen Practitioner through Clean Production Action, and a Certified Industrial Hygienist in Comprehensive Practice, and she holds a Master of Science degree, with specialty in Toxicology. A versatile environmental health & safety professional, she helps establish product specifications, especially chemical restrictions, certifications and test protocols, integrating informed selection of lower impact building products. For manufacturers, she monitors chemical exposures in the workplace, and advocates for continuous improvement/quality control of the materials supply chain. For sustainability teams, she conducts indoor air quality test campaigns meeting LEEDv4 and Living Building Challenge credit requirements, including recently at the 200,000 sf Etsy Headquarters in Brooklyn.



Heather Burpee | Research Assistant Professor, University of Washington's Center for Integrated Design Lab

Heather Burpee is a Research Assistant Professor at the University of Washington Center for Integrated Design Lab, and is the Director of their Discovery Commons, which focuses on outreach and education related to high performance buildings. Heather is a nationally recognized scholar in high performance design -- those that reduce energy and promote healthy indoor environments. Her work bridges practice, research, and education with collaboration between practitioners, faculty, and students. Her research addresses both qualitative and quantitative aspects of buildings including tracking health impacts and synergies between environmental quality, natural systems, sensory environments, and energy efficiency. Her academic research has been funded by the Northwest Energy Efficiency Alliance, the Department of Energy, and the National Science Foundation, among others. As the Director of the UW IDL's Discovery Commons, she leads outreach and education at the Bullitt Center "The World's Greenest Building," providing tours and other educational opportunities related to high performance buildings to multi-faceted audiences.

Edward Clark LEED AP BD+C | Associate and Sustainable Designer, ZGF Architects

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Nicole DeNamur | Attorney, Pacifica Law Group & Affiliate Instructor, University of Washington

Nicole DeNamur is a Seattle-based attorney whose practice focuses on insurance coverage and construction litigation. She is also a LEED® Green Associate™ and WELL AP™. Nicole regularly presents on her holistic and proactive approach to risk management and the legal issues associated with the design, construction, and operation of sustainable buildings. She is a steadfast advocate for greater connections between the legal community and the sustainability community to drive tangible, meaningful change. Nicole is an Affiliate Instructor at the University of Washington's Runstad Center for Real Estate Studies, where she teaches the interdisciplinary course entitled *Risk and Reward in Sustainable Development*. She also developed the content for, and taught, *Policy and Planning*,

within the Master's Program in Design for Human Health at Boston Architectural College.



Bradley Guy | Associate Professor of Practice & Director of the MS in Sustainable Design, The Catholic University of America

Bradley Guy is an Associate Professor of Practice and Director of the MS in Sustainable Design program, School of Architecture and Planning, The Catholic University of America (CUArch), Washington, DC. He is also the Director of the Center for Building Stewardship, and Director of the MS in Facilities Management Program at CUArch. His teaching and research focus on sustainable and healthy materials and C&D waste, life cycle assessment, prefabrication and modular design, design to use reclaimed materials, and deconstruction. Brad has received The Graham Foundation for Advanced Studies in the Fine Arts Research Fellowship and is currently a member of the LEED Social

Equity Pilot Credit Working Group and the AIA Materials Knowledge Working Group. He has a M.S. in Architectural Studies from the University of Florida, and a B.Arch. from the University of Arizona, and is an Associate of the AIA and an USGBC LEED AP BD+C.

Dr. Lauren Heine | Executive Director, Northwest Green Chemistry

Dr. Lauren Heine applies green chemistry, green engineering and multi-stakeholder collaboration to the development of products and processes. Lauren led development of both *GreenScreen® for Safer Chemicals*, a method for chemical hazard assessment increasingly used worldwide and CleanGredients™, a web-based information platform for identifying greener chemicals in cleaning products. Lauren serves on the Apple Green Chemistry Advisory Board, which is tasked with helping to integrate green chemistry into Apple's products and supply chain. For the OECD, she drafted *Policy Principles for Sustainable Materials Management*. Lauren served on the California Green Ribbon Science Panel. For the US EPA, she helped develop criteria for the Design for the Environment (DfE) Safer Choice and Alternatives Assessment Programs. Lauren was technical advisor to the Interstate Chemicals Clearinghouse Alternatives Assessment Guide. Lauren earned her doctorate in Civil and Environmental Engineering from Duke University, was an AAAS Fellow and is currently adjunct faculty at Gonzaga University.



Chris Hellstern, M. Arch., LFA, LEED AP BD+C, CDT and author with The Miller Hull Partnership

in Seattle has worked on a variety of project types including hospitals, laboratories, public facilities, higher education, and world's fourth Living Building Challenge certified project—Bertschi School Science Wing. His recent book, *Living Building Education* chronicles the story behind the Bertschi project. Chris has served as a Cascadia Branch member and Living Building Ambassador for ILFI. He founded Seattle 2030 Roundtable and co-founded the Healthy Materials Collaborative. A Living Future Accredited professional, Chris has been a speaker at numerous conferences across the country, published several articles and volunteers with local school groups mentoring students about sustainable practices and advocacy. With a passion for healthier materials, Chris served as a member of the AIA Materials

Matter Advisory Group to help create the curriculum for this unique and comprehensive series.

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Dr. David Kalman | Professor, University of Washington

Dr. David Kalman is a professor in the Department of Environmental and Occupational Health Sciences program. He is a chemist by training, earning his doctorate from the University of Washington in 1978. He joined the faculty in that year and has held numerous positions including department chair, director of the Environmental Health Laboratory and director of one graduate degree program and director of undergraduate degree education. He is the author of over 90 peer-reviewed research publications. His research and teaching focuses on chemical issues, such as hazardous properties of materials, environmental fate and transport, environmental quality assessment, hazard management, and occupational and community exposure assessment, especially using biomarkers of exposure. Active research areas include assessment of exposures and effects of arsenic in drinking water, diet, and soil. Dr. Kalman serves on the Washington Department of Ecology Green Chemistry Center Advisory Committee and the Washington Department of Ecology Alternatives Assessment Advisory Group.



Nadav Malin | President & CEO, BuildingGreen

Nadav Malin is the building industry's acknowledged go-to resource when you need thoughtful perspective on the materials and design solutions that define sustainable building practice. He is an experienced trainer and facilitator, convening the network of architecture firm Sustainable Design Leaders and teaching diverse groups about LEED and green building. He is a sought-after workshop facilitator and consultant to USGBC, AIA, large corporations, government agencies, and architecture firms. As president of BuildingGreen, he oversees the company's industry-leading information and community-building websites BuildingGreen.com and LEEDuser. When the LEED rating system was just starting out, Nadav was tapped to lead its new Materials and Resources Technical Advisory Group, which he chaired throughout LEED's formative years.



Christopher Meek AIA | Associate Professor, University of Washington | Director, Integrated Design Lab

Christopher Meek, AIA, IES is Associate Professor of Architecture at the University of Washington and Director of the Integrated Design Lab (IDL) at the University's College of Built Environments. In this role, he provides research, technical assistance, and education in the Pacific Northwest and nationally with a focus on building performance, daylighting, and climate responsive design. Mr. Meek is part of the AIA Seattle Materials Matter development team which includes the University of Washington Integrated Design Lab, the Carbon Leadership Forum, and the Health Product Declaration Collaborative. Mr. Meek teaches graduate and undergraduate level courses on building design and technology at the UW Department of Architecture.

Dr. Jan Newton | Affiliate Assistant Professor & Co-Director, Washington Ocean Acidification Center

Information coming soon!



Tien Peng | Vice President of Sustainability, NRMCA

Tien Peng is NRMCA's vice president of sustainability. Based in Seattle, he leads efforts to improve codes, standards and sustainability protocols. Tien helped launch the industry leading environmental product declaration operator status as well as the new responsible sourcing program for concrete. Tien is a long-time advocate of community empowerment, promoting green building practices and social responsibility to various industries from housing to NGOs. Prior to NRMCA, he worked to build capacity for the largest developer in the Pacific Northwest to achieve sustainability and profitability. Tien served on the WA State Building Code Council to advised the State Legislature on building code adoption. He also facilitated the creation of the LEED Homes rating system and currently serves on the Green Globes consensus body. Tien holds a M. Arch from the University of Houston and a B.E. in mechanical engineering from the State University at Stony Brook.

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Alexandra Ramsden | Principal/Director, Sustainability, Rushing



Alexandra leads Rushing's Sustainability Studio in providing consulting for sustainability strategy development, LEED and Built Green management, charrette facilitation, and training. Her expertise lies in guiding teams to identify project appropriate sustainability solutions. Drawing from her multi-disciplinary background of both science and architecture, Alexandra approaches projects holistically and harnesses the expertise of all the team members at the table. She is passionate about healthy, sustainable environments, and the people who create them. With over 100 green building projects under her belt, from multifamily residential to libraries to transit facilities, Alexandra has the tools to guide organizations to a customized solution. Her passion for looking to nature for design solutions

inspired Alexandra to found Biomimicry Puget Sound, a global network linked to the Biomimicry Institute. As a recognized leader in green building, Alexandra lectures regularly on topics such as Integrated Design, Biomimicry, Green Building Materials, Living Building Challenge and LEED.



Max Richter | Senior Architect, Associate, Co-Director Materials Performance Lab, Perkins+Will

Max Richter is a Senior Architect and Associate in the Vancouver office of Perkins+Will. Since joining the firm in 2010, he has worked on a number of the firm's most innovative projects, including the VanDusen Botanical Garden Visitor Centre, which is the first building in Canada to earn Petal recognition for the Living Building Challenge and the Centre for Interactive Research on Sustainability, which was designed to be 'net positive' in seven different ways. For both of these projects, Max helped the project teams navigate the Living Building Challenge and better understand the health impacts of building materials. Max regularly speaks and writes about sustainable design and healthy materials, and he recently co-authored an article on integrating academic research into

the architectural design process. He is also committee member for the Technical Committee of the Health Product Declaration Collaborative open standard.



Kathrina Simonen | Associate Professor, University of Washington | Founding Director, Carbon Leadership Forum

Kathrina Simonen is an Associate Professor of Architecture at the University of Washington and registered architect and structural engineer. She is founding director of the Carbon Leadership Forum an industry-academic collaborative focused on reducing the greenhouse gas emissions resulting from the manufacturing of building materials and products. Her research is focused on bringing the data and methods of environmental life cycle assessment (LCA) to design and construction practice. Ms. Simonen teaches graduate and undergraduate level courses on building design, LCA, structural engineering, and high performance buildings. She has presented on the topic

of LCA and building materials to a wide range of industry professionals including the AIA, USGBC and the ASCE Structural Engineer's Institute and has developed online course content and professional webinars. Prior to joining the University of Washington she practice for over 15 years as an architect and structural engineer.

Beth Stroshane CSI, CCS, LEED AP | Managing Partner, Applied Building Information

Information coming soon!



Joel Ann Todd | Education and Technical Director, Health Product Declaration Collaborative

Joel Ann Todd, Education and Technical Director of the Health Product Declaration Collaborative, has more than 25 years of experience in green buildings and building materials. In the early 1990s, she developed LCA-based Materials Reports for the AIA's *Environmental Resource Guide*, with AIA COTE. Joel began working with the USGBC in the late 1990s on LEED, served as Vice Chair of the Technical and Scientific Advisory Committee, as Vice Chair and then Chair of the LEED Steering Committee, and on the USGBC's Education Steering Committee. She was a contributing author for USGBC's *Better Building Materials: Understanding Human Health and Environmental Attributes*.



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Recently, Joel joined the staff of the Health Product Declaration Collaborative, where she co-authored a *Guide* for Project Teams on HPDs as well as webcasts and workshops. Joel has conducted workshops on green building topics for different audiences in various countries and is an invited speaker at conferences around the world.

Alicia Daniels Uhlig | Living Community Challenge + Policy Director, International Living Future Institute

Information coming soon!

David Walsh | Preconstruction Sustainability Manager, Sellen Construction

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