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## Materials Matter – Healthy Planet: Materials + the Environment

AIA Seattle | Summer 2017 | Seattle City Hall, Bertha Knight Landes Room

*\* all sessions/speakers subject to change*

Session I Healthy Planet: Materials + the Environment kicks off the Materials Matter program with a candid overview of why materials matter for both environmental and human health. The session focuses on what impacts material substances can have on our environment and how we measure and track those impacts. It will introduce the primary methods used to assess the environmental impact of materials, including life-cycle assessment, and the tools available to help identify and prioritize healthy, sustainable materials.

**PROGRAM: FRIDAY, JUNE 2, 2017 | 8:00 am – 12:45 pm**

**Session I: Healthy Planet: Materials + Environment**

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| 8:00 – 8:30 | <b>REGISTRATION + MORNING REFRESHMENTS</b>   |
| 8:30 – 8:45 | <b>WELCOME + INTRODUCTION</b><br>Cassie Blair   Program Manager, AIA Seattle                                       |
| 8:45 – 9:30 | <b>HEALTHY MATERIALS OVERVIEW</b><br>Chris Hellstern   Miller Hull Partnership                                     |
| 9:30-10:15  | <b>ENVIRONMENT IMPACT OVERVIEW</b><br>Nat Scholz   Northwest Fisheries Science Center NOAA                         |
| 10:15-10:30 | <b>BREAK</b>   |
| 10:30-11:30 | <b>ENVIRONMENT IMPACT CASE STUDY: OCEAN HEALTH</b><br>Dr. Samantha Siedlecki   JISAO, University of Washington     |
| 11:30-12:40 | <b>PRIORITIZING ENVIRONMENTAL IMPACTS</b><br>Kathrina Simonen   University of Washington & Carbon Leadership Forum |
| 12:40-12:45 | <b>WRAP UP</b><br>Cassie Blair   Program Manager, AIA Seattle  |

## SESSION I SPEAKERS:



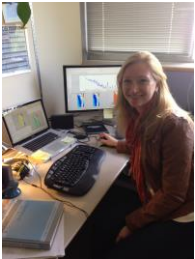
### **Chris Hellstern | Miller Hull Partnership**

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.



### **Nat Scholz | Northwest Fisheries Science Center NOAA**

Nat is a marine biologist and zoologist by training. He has managed the multidisciplinary Ecotoxicology Program since 2004. He joined the Center in 1998 as a Postdoctoral Associate with the National Academies of Science and Engineering (National Research Council) after completing a doctorate in zoology from the University of Washington. Prior to that he did masters and undergraduate research in Boston University's Marine Program in Woods Hole. He has published widely on the ecological impacts of freshwater and marine pollution, at scales ranging from gene expression to the dynamics of wild fish populations.



### **Samantha Siedlecki | JISAO, University of Washington**

Samantha is a research scientist at the Joint Institute for the Study of Atmosphere and Oceanography (JISAO) at the University of Washington. She obtained her PhD from the University of Chicago in 2010, and was a Post Doctoral Fellow at JISAO until 2012. Her research investigates understanding coastal biogeochemical cycles through the use of models. One example includes understanding the mechanisms for exchange of iron between the coastal and open ocean in an upwelling system. She has been working with the Coastal Modeling Group at UW alongside collaborators at NOAA-PMEL and the Washington Ocean Acidification Center to develop oxygen and ocean acidification models for the coastal region of Washington and Oregon as well as the Gulf of Alaska. Currently, she is working on forecasting ocean acidification and hypoxia in the coastal ocean of Washington and Oregon on various timescales.



### **Kathrina Simonen | University of Washington**

Kate 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.