

2020 ENGINEERING

WHOLISTIC ENGINEERING: Applied to Sustainable Water Resource Management

PRESENTATION

Mark will include concepts for sustainable water resource management, for both buildings and site designs, including:

- Definitions of water by quality, i.e., “the colors of water”
- Ways to meet the “Net Zero Water” criteria of the Living Building Challenge
- Urban Agriculture; closing both the “water” and “nutrient” loops, and
- Low Impact Development (LID) methods for managing stormwater by mimicking nature.

Since 1995, **2020 ENGINEERING** has been at the forefront of research and development of sustainable methods, systems, and infrastructures that reduce capital of operating costs and reduce material consumption and waste, restore and protect ecological systems, and create and maintain healthy communities. 2020 has been involved with the research, planning, and/or design of hundreds of Low Impact Development (LID), LEED, and/or Living Building projects in many different areas of the country at residential, commercial, educational and municipal levels as well as presenting at numerous conferences and sustainable/LID workshops. 2020’s sustainable and low impact designs include porous pavements and raingardens, rainwater harvesting systems, urban agriculture, ecologically based wastewater treatment & water reuse systems (i.e. Living Machines® and Constructed Wetlands), urine diversion and reuse systems, as well as material recycling and composting facilities.

Mark Buehrer, PE, Founder/Director has nearly 30 years of Civil Engineering experience. He is currently serving on the board of the Cascadia Green Building Council, is the Technical Development Leader of the “Water Team” for the development of the Living Building User’s Guide (Version 2.0) and is involved with the continued development of the Living Building Challenge standard. He is a frequent speaker at sustainability-focused conferences such as the 2011 EcoDistrict Summit in Portland, OR and the 2011 Living Futures UnConference in Vancouver, BC. Additionally, Mark is serving on a committee to develop design criteria and business plans for commercial scale Urban Agriculture projects.

Visit <http://www.2020engineering.com> for more information.

