

Sustainable Manufacturing Seminar Series
“Michigan Made: Designing to Sustain the Economy, Environment and Society”
Laurel Manor – Livonia, MI

Schedule, September 22, 2015

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| 8:00 am – 8:30 am | Registration and Networking |
| 8:30 am – 8:45 am | Welcome and Introductions  Jack Schinderle <i>Department of Environmental Quality</i> |
| 8:45 am – 9:30 am | Keynote  Diane M. Bunse <i>Herman Miller, Inc.</i> |
| 9:30 am – 9:45 am | Morning Break – Vendor Introductions and Networking |
| 9:45 am – 10:30 am | Out of sight, out of mind? The risk of complacency with Michigan’s water & energy resources  Walker Modic <i>Bell’s Brewery</i>  Al Hildreth <i>General Motors</i> |
| 10:30 am – 11:00 am | Panel Discussion – Energy and Water |
| 11:00 am – 11:45 am | Sustainable Product Standards  David Rinard <i>Steelcase, Inc.</i>  Bruce Uhlman <i>BASF Corporation</i> |
| 11:45 am – 12:15 pm | Panel Discussion – Sustainable Product Standards Conservation |
| 12:15 pm – 1:15 pm | Lunch and Networking |
| 1:15 pm – 2:00 pm | Corporate, social opportunities with the Triple Bottom Line  Bill Stough <i>Sustainable Research Group</i>  Jennifer Bruen <i>MSU Center for Regional Economic Innovation</i> |
| 2:00 pm – 2:30 pm | Panel Discussion – Corporate social opportunities with the Triple Bottom Line |
| 2:30 pm – 2:45 pm | Afternoon Break – Networking |
| 2:45 pm – 3:30 pm | Working towards Zero Waste- what does it really mean?  Betsy Hernandez <i>Steelcase, Inc.</i>  Autumn Sands <i>BarFly Ventures</i> |
| 3:30 pm – 4:00 pm | Panel Discussion – Recycling & Food Waste |
| 4:00 pm | Closing Remarks |

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Speaker Biographies



Jack Schinderle

*Chief, Office of Environmental Assistance
Department of Environmental Quality*

Jack Schinderle is the Chief of the Office of Environmental Assistance at the Michigan Department of Environmental Quality. Jack entered the Department of Environmental Quality from a Chicago based environmental company 24 years ago. Jack previously served as the Unit Chief of the Data Management and Tracking Unit in the Office of Waste and Radiological Protection, before entering his current position with the Office of Environmental Assistance. The Office of Environmental Assistance provides pollution prevention and technical assistance, information, education, and financial assistance to continually improve environmental quality. The Office of Environmental Assistance emphasizes "green" technology, including pollution prevention, public infrastructure improvements, environmental restoration and protection, and compliance assistance. Jack holds a Bachelor of Science degree from Purdue University.



Diane M. Bunse, LEED AP

*Safety and Sustainability Specialist
Herman Miller, Inc.*

Diane Bunse is a Safety and Sustainability Specialist at Herman Miller, a company recognized worldwide for its legacy of environmental stewardship.

Diane leads safety and sustainability communications directed at both internal and external customers. She supports Herman Miller's product certifications including Forest Stewardship Council (FSC), Cradle to Cradle, BIFMA level and GREENGUARD®.

Diane earned a B.B.A. from Loyola University of Chicago and an M.B.A. at DePaul University. She joined Herman Miller in 1987, shortly after her boss at Baxter announced he was resigning "to go to work for this wonderful company in West Michigan that cares a lot about people."

Diane grew increasingly interested after her former boss sent her a copy of Herman Miller's Corporate Values statement. Needless to say, she's learned a lot more about the company's environmental values and processes since coming to Herman Miller 28 years ago, and now puts that knowledge to work every day. "I never imagined that I would eventually become part of Herman Miller's Safety and Sustainability department," she admits, "but I absolutely love contributing to the efforts that will turn us into a truly sustainable company."



Walker Modic
Sustainability Manger
Bell's Brewery

Walker Modic is the Sustainability Manager at Bell's Brewery. He is responsible for employee education, waste mitigation, efficient resource utilization and environmental compliance, assessment, and advocacy. Prior joining Bell's in 2013, he was the head brewer at a small regional brewpub in Cambridge, Massachusetts. Before beginning his career in craft beer, he worked at the US Environmental Protection Agency's National Health and Environmental Effects Research Laboratory where he received the EPA's award for Scientific and Technological Achievement. He holds a MA in Sustainability and Environmental Management from Harvard University and a MS in Molecular and Structural Biochemistry from North Carolina State University.



Al Hildreth, PE, CEM
Global Energy Manger
General Motors

Al is the Global Energy Manager for General Motors Company –focusing on energy and utility budgets, metrics, benchmarking, efficiency projects, water and carbon reporting, and renewable energy. He has worked at GM for over 35 years, including 5 years in Europe and Asia, 10 years with Saturn Corporation in Spring Hill, TN, and previously worked for a manufacturer of air pollution control equipment in R&D. Al is a registered Professional Engineer, Certified Energy Manager, and a Certified Hazardous Materials Manager. He received his Bachelor of Science degree in Engineering from Oakland University - Rochester, MI and a Master's of Science degree in Engineering from Rensselaer Polytechnic University and recently became a GM Technical Fellow.



Bruce Uhlman
Team Lead – Applied Sustainability
BASF Corporation

Bruce Uhlman has over twenty years of experience in engineering, manufacturing, research & development and sustainability. Bruce has several years of international work experience with specific expertise in the areas of process and project engineering, technology commercialization and life cycle assessment. More recently, he has worked in the areas of life cycle assessment and life cycle costing, and has performed eco-efficiency and total cost of ownership studies for a broad range of end consumer products and industrial processes. Bruce partners with BASF's many business units and customers in helping them understand and measure sustainability throughout their value chain and help them integrate the results of sustainability studies into their strategic decision-making processes and stakeholder communications. Bruce speaks frequently on sustainability and life cycle assessment and has published many articles on these topics. Bruce has a B.S. in Chemical Engineering from Villanova University, is a member of the American Center for Life Cycle Assessment and is a Certified LCA Practitioner. Bruce can be reached at bruce.uhlman@basf.com



David Rinard

*Director of Global Environmental Performance
Steelcase, Inc.*

David A. Rinard is director of Global Environmental Performance for Steelcase Inc., the global leader in the office furniture industry. Steelcase delivers a better work experience to its customers by providing products, services and insights into the ways people work. Its portfolio includes architecture, furniture and technology products.

Dave, promoted to his current position in November 1994, leads the department that is responsible for overseeing the company's environmental initiatives and performance and implementing our corporate environmental strategy, including regulatory compliance, sustainability, environmental outreach and responsible conduct programs.

Prior to his current position, Dave served as manager, Corporate Environmental Quality, from 1992 to 1994. He began his career with Steelcase in 1979 as an assistant environmental engineer. In 1981, he was promoted to environmental engineer and then to senior environmental engineer in 1986, where he had responsibility for ground water programs, superfund activities and in-house consulting on compliance programs. Dave joined Steelcase after two years with Plastic Plate, Inc., where he was a chemist.

Dave is on the board of directors for the West Michigan Sustainable Business Forum. He is a member of the external advisory board of the University of Michigan's Center for Sustainable Systems, the external advisory board of the Aquinas College sustainable business program, and the Kettering University Environmental Advisory Board. He is also a member representative for the U.S. Green Building Council, a board member of the West Michigan USGBC Chapter, a participant in the BIFMA (Business and Institutional Furniture Manufacturers Association) Government Affairs Committee.

He is a former chair of the board of the West Michigan Air & Waste Management Association, past president of the West Michigan Sustainable Business Forum, former board member of the IDCE, and a former member of the Michigan Department of Natural Resources and Environment Environmental Advisory Council. In addition, Dave currently serves as an adjunct professor in the Aquinas College Sustainable Business program.



Bill Stough

*CEO
Sustainable Research Group*

President and CEO of Sustainable Research Group (SRG) a consultancy that provides design and management services to advance sustainable business practices for its clients. SRG helps its customers reduce their ecological footprint and increase their value proposition to stakeholders through its unique perspective based on sustainable business principles. Bill has over 30 years' experience in environmental business initiatives, industrial ecology, pollution prevention and environmental management systems. He is the founder/organizer of several regional sustainable business networks and was the project manager for the development of the BIFMA e3 Sustainable Furniture Product Standard. Bill has completed over 60 Green Supplier Network Lean and Clean Assessments. He is active in the green manufacturing movement, is the immediate past chair the Sustainable Manufacturing Network and a recent inaugural inductee to the Sustainable Business Hall of Fame by the West Michigan Sustainable Business Forum. He can be reached by phone at 616.301.1059 or by email at bstough@SustainableResearchGroup.com



Jennifer Bruen

Project Coordinator

EDA University Center for Regional Economic Innovation (REI)

MSU Center for Community and Economic Development

Jennifer Bruen coordinates the Michigan State University EDA University Center for Regional Economic Innovation (REI) at the MSU Center for Community and Economic Development. For nearly ten years, both in her current position and past position at the University of Michigan, she has led hundreds of community and economic development projects working with regional planning organizations and communities across the state of Michigan. As a member of the Michigan Association of Planning (MAP) she served on the Government Relations Committee developing regional planning policies for the MAP membership and as a member of the Michigan Economic Developers Association (MEDA) she serves on both the Annual Conference Committee and the Advocacy Committee. For over 20 years Bruen has managed retail and service businesses in Michigan and in Colorado. She has a Master's degree in GIS and Urban and Regional Planning along with a Graduate Certificate in Historic Preservation from Eastern Michigan University and she earned her Bachelor's in Cultural Anthropology at Indiana University.



Betsy Hernandez

Environment Engineer, Global Environmental Performance

Steelcase, Inc.

Betsy is an Environment Engineer in the Steelcase Global Environmental Performance Department. She is a 36 year Steelcase employee with the last 29 years in the environmental group. Her responsibilities include storm water management, waste and recycling, ISO14001 and employee awareness at our North American and international manufacturing facilities. In 2009, she was instrumental in pioneering a food waste compost program at Steelcase in addition to engaging others in West Michigan to join in. She has worked her way up and her "can do" attitude has earned her the title "trash lady". She loves a challenge and feels if "10,000 Steelcase employees can do it...anyone can"!



Autumn Sands

Sustainability Manager

BarFly Ventures

Autumn Sands has been the Sustainability Manager at BarFly Ventures, LLC since 2013, and is a leader of environmental stewardship and sustainability in the food service industry. As Sustainability Manager for BarFly Ventures, she is creating new standards on how companies manage their waste, energy, and resources. In collaboration with Hammond Farms and My Green Michigan, Autumn worked to expand commercial composting from East Lansing to the greater South East Michigan area, including Ann Arbor and Detroit. The project offers full compost services and sustainable solutions to interested businesses. Autumn also spearheaded the "Don't Be Trashy" campaign and zero waste initiatives for some of the largest festivals in the state, including Halloween on Ionia and Irish on Ionia, in Grand Rapids. Irish on Ionia 2015 successfully diverted 100% of the waste stream of over 15,000 partygoers from the local landfill. Autumn is also active in several environmental and community organizations, and has recently been appointed to the Board of Directors for Sonder Farms, as well as the newly formed Michigan Brewer's Guild Sustainability Sub Committee.