

# ESW ™

Annual Conference 2014

April 10<sup>th</sup> – April 13<sup>th</sup>  
*Official Schedule*

In partnership with



All locations referenced in this document are available on a public map at <http://bit.ly/ESWConfMap>. Maps of specific buildings will be available in conference agendas.

**DAY 1** - Thursday, April 10<sup>th</sup>, 2014

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3:00 – 5:00 PM	Tour of NU Physical Plant
6:00 – 9:00 PM	Registration Open
7:00 – 9:00 PM	Opening Mixer (DoubleTree)

Admission to The Plant is complimentary for those able to attend, but shuttle transportation will not be available. The opening mixer will be an informal opportunity to meet other attendees from around the country.

**DAY 2** - Friday, April 11<sup>th</sup>, 2014

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8:00 – 9:00 AM	Breakfast
9:00 – 9:15 AM	Welcome ( <i>Tech L211</i> )
9:15 – 10:30 AM	Morning Keynote - <b>Jill Boughton</b> , W2Worth Innovators
10:45 AM – 12:00 PM	Panels – <b>Economics &amp; Energy</b>
12:00 – 1:15 PM	Lunch + Poster Session ( <i>Willens Wing</i> )
1:15 – 2:30 PM	Panels – <b>Education &amp; Materials Science</b>
2:45 – 4:00 PM	Panels – <b>Culture &amp; Agriculture</b>
4:30 – 6:00 PM	Keynote - <b>Mark C. Weick</b> , Dow Chemical ( <i>Ryan Auditorium</i> )
6:00 – 8:00 PM	Reception & Appetizers ( <i>Ford Hall</i> )
8:00 - 10:00 PM	Student Social Event, Professional Mixer

Friday's events constitute NU's public NUSOS event as well as the core speakers for the ESW Conference. Panels will be held in the Ford Hall Design Shop and the Cohen Commons in the Tech Institute. Detailed rooms and maps will be provided in the conference agenda.

There will be a mixer Friday evening for professionals, faculty, and graduate students at a local restaurant (World of Beer). There are no formal activities planned for students, though several possibilities for visiting Chicago are available for small groups.

**DAY 3 - Saturday, April 12<sup>th</sup>, 2014**

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7:00 AM - 12:00 PM	Shuttles from DoubleTree to Northwestern Campus
8:30 – 9:00 AM	Breakfast ( <i>Ryan Auditorium</i> )
WORKSHOPS – 1 <sup>ST</sup> HALF	
9:00 – 10:15 AM	Workshops I
10:30 – 11:45 AM	Workshops II
12:00 – 1:00 PM	Lunch ( <i>Ryan Auditorium</i> )
WORKSHOPS – 2 <sup>ND</sup> HALF	
1:00 – 2:15 PM	Workshops III
2:30 – 3:45 PM	Workshops IV
3:30 – 5:30 PM	Job/Networking Fair ( <i>Cohen Commons</i> )
6:00 – 7:00 PM	Inter-Chapter Challenge ( <i>SPAC Pool</i> )
7:30 – 10:00 PM	Banquet, Keynote, & Awards ( <i>Heartwood Center</i> )
6:00 - 11:00 PM	Shuttles from NU Campus to DoubleTree and Heartwood Center

Workshops will take place on the second floor of Ford Hall and in the Tech Institute throughout the day. Detailed room assignments will be provided in the conference program. The evening banquet will include a keynote speaker as well as awards for outstanding chapters and individuals, and the announcement of winners for the ESW Photo Contest and Inter-Chapter Challenge.

**DAY 4 - Sunday, April 13<sup>th</sup>, 2014**

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9:00 AM – 12:00 PM	Hike/Service Activity ( <i>Harms Woods</i> )
10:00 AM - 2:00 PM	Shuttle Service to O’Hare Airport ( <i>From DoubleTree</i> )
12:00 PM	Formal End of Conference
12:00 – 3:00 PM	National Team Meeting

Sunday morning will be relaxed, with a restoration activity in three nearby (~1 mile) wooded parks and hiking opportunities. Those with cars will be driving slightly south, while those

without can easily walk to the Harms Woods area. No activities are planned on the NU Campus on Sunday.

## Workshops 1<sup>st</sup> Half

### Workshops I:

#### 🌱 **CAMPUS PRESENTATIONS**

Presentations by ESW chapters and others on efforts to improve campus sustainability

- Longhorn Lights Out – Kristen Cetin, UT Austin
- LCA of Food Waste in the Dining Halls – Hima Hassenruck-Gudipati, Caltech
- Sustainable Hand Drying – Alanna Olear, SUNY Buffalo
- Harnessing Dorm Dryer Heat – Courtney Smith & Pieter Werner, RIT

#### 🌱 **CHAPTER LEADERS SUMMIT I**

ESW chapter leaders will meet to connect, share best practices, and be trained in effective leadership. Both incoming and outgoing leaders are encouraged to attend.

#### 🌱 **WPSI SUMMIT**

WPSI (the Wicked Problems in Sustainability Initiative) is ESW's course-based initiative that aims to lower the barriers to including complex real-world problems in project-based courses. WPSI provides a shared community of different disciplines and professional expertise to focus on a specific problem each year. For the 2013-2014 pilot, the courses at the U. of Pittsburgh and RIT focused on the roots of air pollution. At this summit, results from the first year will be presented and the topic for the 2014-2015 year will be selected. Anyone interested in connecting a local class at their school to WPSI is encouraged to attend!

### Workshops II:

#### 🌱 **EDUCATIONAL OUTREACH PRESENTATIONS**

Presentations from submitted abstracts on educational outreach around sustainability from kindergarten through adult community groups.

- Campus School Sustainability Collaboration – Maya Kutz, Smith College
- Renewable Energy & Sustainability Outreach – Candace Grogg, Robert Morris University
- Introduction to Design and Engineering Applications – Timothy Egnoski, Red Rocks CC
- Race to Save the World Through Engineering – Yamit Lavi, UT Austin

#### 🌱 **CHAPTER LEADERS SUMMIT II**

ESW chapter leaders will meet to connect, share best practices, and be trained in effective leadership. Both incoming and outgoing leaders are encouraged to attend.

#### 🌱 **WEB DESIGN & BRANDING**

Led by ESW-National Branding and Technology Director Brian Lange, this workshop will cover dos and don'ts for excellent web design (focused on chapters), and the basics of building a meaningful local brand on your campus.

#### 🌱 **CAREERS IN SUSTAINABILITY ROUNDTABLE**

Aimed at soon-to-be graduates and professionals, and done in partnership with Dayaway Careers, this discussion will include a panel of individuals - some present, some digitally connected - working in sustainability-related fields talking about how they got to their current position and what skills were useful in the process.

## Workshops – 2<sup>nd</sup> Half

### Workshops III:

#### 🌐INTERNATIONAL PRESENTATIONS

International projects from individual submitted abstracts, including projects and new ventures, and sustainability-focused research from attending graduate students.

- Solar Cubed – Abhi Pudi, Illinois Institute of Technology
- ITDP - Thailand – Peggy Ip, UC San Diego
- Pura Playa – Michael Narea, Northwestern
- Changing Campus Infrastructure - Nathaniel Miller, Harvey-Mudd College

#### 🌐PASSIVE SOLAR DESIGN

Led by ESW Projects & Education Director Robert Best, this workshop will discuss the basics of designing buildings to minimize active energy usage, and then let participants build models of their own structures.

#### 🌐INTRODUCTION TO THE SMARTER PLANET with IBM

IBM is working to build a Smarter Planet by empowering people to be more efficient through better data, systems, and effective management in a broad range of industries and applications. This workshop will introduce the definition of Smarter Planet, talk about key inputs and capabilities for Smarter systems, and discuss specific cases of transformation to a Smarter system that improved sustainability. Attendees will also learn how to become more involved in Smarter Planet initiatives and have an opportunity to ask questions and network with IBM'ers before the Saturday afternoon job fair.

#### 🌐TEACHING SUSTAINABILITY ROUNDTABLE

Incorporating sustainability into technical courses, or sustainability courses into technical curricula, is a challenging task at the best of times. Administrative support, funding, available time for course design all pose problems. This session will be led by Education Director Justin Hess, and is aimed at faculty and soon-to-be faculty. It is intended to be a candid discussion on dealing with these challenges, approaches that have worked locally, and ways that ESW-National could help replicate positive results at more schools. Expect to leave with a new group of colleagues to work with!

## **Workshops IV:**

### **🌀COMMUNITY & RESEARCH PRESENTATIONS**

Community & research-focused projects from individual submitted abstracts, including projects and new ventures, and sustainability-focused research from attending graduate students.

- Impact of a Looking-ahead Control Strategy for Maintaining Adequate Power for a Hybrid Electric Truck – Ahmed Al-Samari, West Virginia University
- Processing Organic Waste for Energy Recovery (POWER) – David D'Agostino, Stevens Institute of Technology
- Waste to Energy Opportunities – Peggy Ip, UCSD
- Energy Recovery from Urban Waste - Clarke O'Connor, Midwestern State University

### **🌀EFFECTIVE TEAM DYNAMICS**

Led by ESW Chapter Relations Director Brittany Bennett, this workshop will cover case studies and techniques for getting groups of people to work together effectively, and how to handle common issues. This is a great workshop for budding (or experienced) project leaders who want to have more effective meetings and get more accomplished.

### **🌀IMPLEMENTING LEED in ENGINEERING**

An in-depth view of the LEED green building rating system presented by members of the USGBC-Illinois Chapter Emerging Professionals. Early LEED certified buildings will be discussed to contrast the advances and best practices of the current LEED rating system. Participants will explore the influence of green building on engineering and innovation toward a more sustainable world.

### **🌀WORKING WITH THE ESW NATIONAL TEAM**

Interested in getting involved in ESW at the National level? Come learn about what the experience is like, the skills and perspective you can gain, and what opportunities are available from Chapter Relations Coordinator (and Recruitment head) Calvin Holic. Attendees will also get to ask questions of other National Team members.