



UPCOMING MEETING:

SURF 28 – February 24-25, 2015
Boeing Washington DC Office
Arlington, Virginia

Registration and agenda for SURF 28
are available on the SURF website:
www.sustainableremediation.org

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SURF REPORT – WINTER 2015

SURF 28: MOVING SUSTAINABLE REMEDIATION FORWARD

SURF 28, “Moving Sustainable Remediation Forward,” will be held on February 24 and 25, 2015 at the Boeing Washington DC Office in Arlington, Virginia. Meeting registration (including the group dinner) and logistical information are available at www.sustainableremediation.org.



The meeting will kick off with Keynote Speaker Scott Schang, Acting President of the Environmental Law Institute, providing comments on climate change adaptation. Subsequent presentations from the U.S. Environmental Protection Agency (EPA) and ASTM International will discuss perspectives on and approaches to adaptation and mitigation for climate change risk. The afternoon features a panel of industry representatives describing their sustainable remediation programs, updates on recent progress and future plans from the U.S. Army Corps of Engineers, and a case study from Savannah River National Laboratories. The day ends with a group dinner in which participants continue discussions about sustainable remediation and share “a-ha” moments from the day (and great food and drink).

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Get social with SURF!



Search LinkedIn for “Sustainable Remediation Forum” to join



[@SR_Forum](https://twitter.com/SR_Forum)



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Contact chairs for volunteer opportunities!

ABOUT SURF

The Sustainable Remediation Forum (SURF) promotes site assessment and remediation that protects human health and the environment while maximizing environmental, social, and economic benefits throughout the project life cycle by:

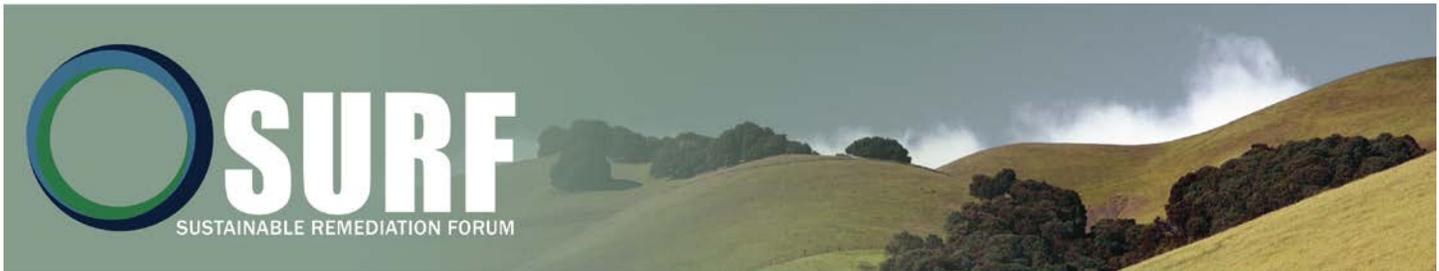
- Advancing the science and application of sustainable remediation
- Developing best practices
- Exchanging professional knowledge
- Providing education and outreach

Greetings from SURF! This newsletter is published quarterly by the SURF Communications Committee to provide you with highlights of SURF's activities and opportunities and developments in the field of sustainable remediation.

The SURF website, www.sustainableremediation.org, continues to be our primary resource for sharing the latest and greatest news about SURF and sustainable remediation. Our Links page provides a one-stop shop for resources, tools, information, and documents. The Calendar shows remediation, sustainability, and related conferences, as well as deadlines for submitting abstracts. Suggestions for additions and improvements are welcome by using the Contact SURF form on the website or by emailing administrator@sustainableremediation.org.

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INTERNATIONAL COLLABORATION AT SUSTREM 2014

In September 2014, Amanda McNally (SURF Secretary) attended the *Third International Conference on Sustainable Remediation* (“SustRem 2014”) in Ferrara, Italy. The three-day conference was held in conjunction with the *RemTech 2014 Expo* and was hosted by SURF Italy. The conference stimulated an international exchange of perspectives on how contaminated sites can be remediated with a lower environmental footprint and how their reuse can contribute to more sustainable land development. The plenary session



The plenary session of SustRem 2014 was held in the historical Castello Estense di Ferrara in the city center.

featured updates from representatives of each of the SURF network countries. As the representative from the United States, Amanda shared SURF’s mission, value proposition, and accomplishments, as well as the progress of SURF’s ongoing technical initiatives, including the Sustainable Remediation Initiative, Social Aspects of Sustainable Remediation, Groundwater Conservation and Reuse, Case Study Initiative, and the Academic Outreach Initiative. She also shared SURF’s vision of transitioning from ideas and plans into action –

and the hope that sustainable remediation will become standard practice in the future.

SustRem 2014 was organized around five major themes of sustainable remediation: Conceptual Framing; Tools, Metrics, and Indicators; “Greening” Remediation; Case Studies; and Stakeholder Involvement. The conference also featured several workshops:

- *Implementing Remedies with a Lower Environmental Footprint: Recent Developments* (Carlos Pachon, USEPA)
- *The World Café Nanoremediation: Hope or Fear from the Sustainability Perspective* (Paul Bardos, R3 Environmental and Yevgeniya Tomkiv, NMBU)
- *Sustainable Remediation and Redevelopment Case Studies State of the Art* (Barbara Maco, Wactor & Wick, LLP)

During the case study workshop, Barbara Maco (SURF and Case Study Initiative team member) discussed the value of case studies and communication of success stories as sustainable remediation is implemented in different countries, as well as the challenges and obstacles we have faced as an industry. This workshop saw the fruitful exchange of ideas and generated international interest in SURF’s Case Study Initiative.

The discussions and presentations at SustRem 2014 demonstrated the following key messages:

- Environmental footprint tools are well established and life-cycle assessment is increasingly being used as a decision-making tool for remediation.
- Redevelopment and land use seem to be the primary drivers for sustainable remediation internationally.

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SURF 28, continued from Page 1

The agenda for Day 2 of the meeting allows participants to provide input and discuss SURF's plans to move the practice of sustainable remediation forward. These interactive breakout sessions are sure to be lively and insightful, focusing on actions that SURF can take in 2015 to promote the understanding, acceptance, and implementation of sustainable remediation across

industries while engaging key stakeholders in the process.

For SURF 28 registration information, recommended hotels, and agenda information, visit the SURF website at www.sustainableremediation.org.

AT A GLANCE: INTERNATIONAL SOCIETY OF SUSTAINABILITY PROFESSIONALS

At SURF 27, SURFer Sue Bruning mentioned that she was headed to a meeting of the International Society of Sustainability Professionals. Participants expressed interest in the organization, so Sue provided this report.

This past November, I braved the unprecedented early November bitter cold in Denver, Colorado, to attend the International Society of Sustainability Professionals (ISSP) annual conference. Despite the record-setting temperatures and treacherous driving conditions, it was quite the incredible journey. The conference featured world-renowned sustainability professionals, interactive workshops, networking opportunities and even a hall-of-fame induction ceremony. All of this came immediately following SURF 27. Needless to say, it was a thought-provoking week.

ISSP is a professional organization composed of over 700 members from across the globe. My membership has provided incredible networking opportunities, with globally recognized thought leaders as well as education resources and practical tools to advance my career. I encourage anyone interested in sustainability to take advantage of ISSP's professional certification program, regardless of your industry or job title.

The Sustainability Professional Certificate program blends sustainability concepts and practices with organizational change theory to provide you with the leadership skills and knowledge to lead a sustainability program. ISSP's certificate courses offer access to current research and professionals working in the field. ISSP's instructors are subject-matter experts that facilitate the on-line webinars and learning center experience. Requirements include eight four-week on-line courses and four one-hour webinars. You can start at any time, and the program takes up to two years to complete. The cost for the entire program is approximately \$2,600.

For additional information on the Certificate program or to learn more about ISSP, visit their website at www.sustainabilityprofessionals.org or contact Christy Nordstrom at cnordstrom@sustainabilityprofessionals.org.



SustRem 2014, continued from Page 2

- Interest in the social and economic impacts of remediation, including the incorporation of worker safety, is increasing.
- The need persists for case studies that demonstrate successful incorporation of the triple bottom line.

In 2015, SURF is in a prime position to provide experience and resources to the remediation industry and advance the implementation of sustainable remediation.

Contributed by Amanda McNally



International SURFers participated in SustRem 2014 to discuss the progress of various initiatives and learn about how sustainability principles are applied across the globe. From left to right: Claudio Albano (Italy), Sebastien Yelle (Canada), Garry Smith (Australia-New Zealand), Laurent Bakker (Netherlands), Nicola Harries (United Kingdom), Olivier Maurer (Brazil), Hans Slenders (Netherlands), Colin Chen (Taiwan), Jonathan Smith (United Kingdom), and Amanda McNally (United States).

SURF 27: SUSTAINABLE REMEDIATION IN ACTION

SURF 27 was held at the University of Michigan in Ann Arbor, Michigan on November 11 and 12, 2014. The meeting focused on “Sustainable Remediation in Action;” speakers presented on a variety of case studies throughout the U.S. Presentation slides are available to SURF members on the SURF website under “Member Resources,” “Presentations.”

In one case study presentation, Kevin Lund (Michigan Department of Environmental Quality), Grant Trigger

(RACER Trust), Daniel Vrendenburg (University of Michigan undergraduate student), and Gina Cortese (University of Michigan graduate student) discussed the sustainable engineering systems applied at the Willow Run site. The 350-acre site was occupied by a manufacturing plant that was originally built in the 1940s as an airplane assembly plant and has over 80 acres of concrete slab. Sustainable remediation efforts include using the former concrete floor of the plant (which is

about ½-mile long) to mitigate infiltration and direct contact exposure to the contamination, using the existing storm water system to collect oil and groundwater, and creating a subsurface wetland and leach field to provide end-of-pipe treatment.



SURFers gather at SURF 27 for a group photo at the University of Michigan's historic Michigan League.

For this project, nine students performed a literature review of wetland case studies and developed the design working hand in hand with the MDEQ. Students performed bench-scale tests to determine the most appropriate and beneficial vegetation and to define the best-case treatment scenario. Bench-scale tests were followed by pilot-scale testing. Over two semesters, five students constructed scalable models to test contaminant reduction via a free-surface flow wetland, subsurface flow wetland, and leach field. Results indicated that all three systems could function to lower contaminant levels to the appropriate discharge requirement.

The importance of local community involvement in this project was discussed, as well as next steps, which will be obtaining community input on site redevelopment alternatives.

If you've been involved in a project that demonstrates sustainable remediation implementation, SURF wants

your case study. SURF's case study template is available on the SURF website home page, and case studies can be submitted via e-mail at csi@sustainableremediation.org.

SURF 2015 ELECTION RESULTS

The SURF Board of Trustees election results are in! The 2015 SURF Board of Trustees are as follows:

President:

Maile Smith, Northgate Environmental Management

Vice President:

Jake Torrens, AMEC Foster Wheeler

Secretary:

Amanda McNally, AECOM

Treasurer:

Keith Aragona, Haley & Aldrich

At Large:

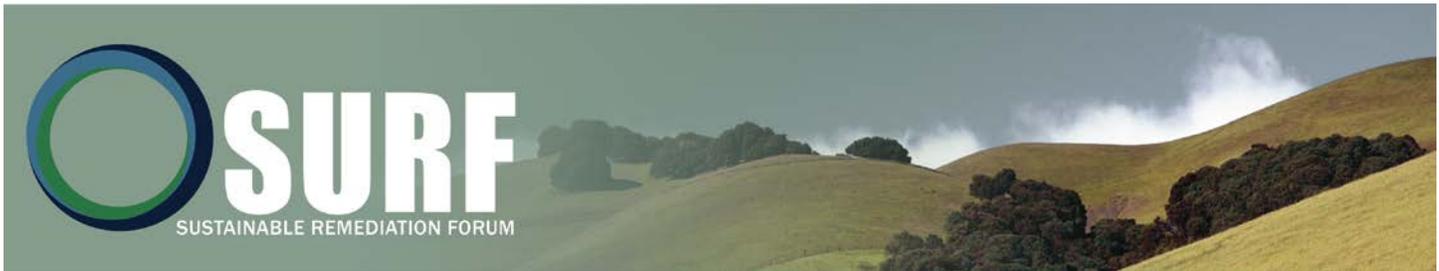
- Paul Hadley, California DTSC (retired)
- Melissa Harclerode, CDM Smith
- Kristin Mancini, ARCADIS
- Olivia Skance, Chevron
- Rick Wice, TetraTech

Thanks to all who nominated a fellow SURFer, ran for a position, and/or voted! Thanks also to the outgoing Board for all of their hard work in 2014.

UPCOMING EVENTS AND CONFERENCES

RemTECH Summit – March 2-4, 2015 – Westin Westminster, Westminster, Colorado

The RemTEC Summit focuses on advancing the environmental science and remediation industry, focusing on cost-effective site management and closure in terms of technology, application and policy. Early Bird Registration ends January 30, 2015. Visit <http://www.remtecsummit.com/> for more information, including program and registration materials.



***WM2015 Conference – March 15-19, 2015 – Phoenix
Convention Center, Phoenix, Arizona***

This annual conference is presented by WM Symposia, a nonprofit organization dedicated to education and opportunity in waste management with a focus on identifying cost-effective and environmentally responsible solutions to the safe management and disposition of radioactive waste and radioactive materials. Track 7, “Environmental Remediation,” addresses activities associated with assessment, cleanup, and closure of contaminated sites, with a focus on aspects such as sustainable green remediation processes, accelerating cleanup through technological or process improvements, and legacy management/long-term stewardship. For more information, visit <http://www.wmsym.org/>.

***25th Annual International Conference on Soil, Water,
Energy, and Air – March 23-26, 2015 – Marriott Mission
Valley, San Diego, California***

This West Coast conference is hosted annually by the Association for Environmental Health and Sciences Foundation (AEHS) to provide a forum to facilitate the exchange of information about technological advances, new scientific achievements, and the effectiveness of existing environmental regulation programs. Visit <http://www.aehsfoundation.org/west-coast-conference.aspx> for more information.

***The Third International Symposium on Bioremediation
and Sustainable Environmental Technologies – May 18-
21, 2015 – Hyatt Regency Miami Hotel, Miami, Florida***

This symposium will present information on advances in bioremediation and the incorporation of green and sustainable practices in remediation. The program is designed for scientists, engineers, regulators, remediation site owners, and other environmental professionals representing universities, government agencies, and consulting, research and development, and service firms from around the world. Early bird registration ends March 18, 2015. Visit <http://www.battelle.org/media/conferences/biosymp> information, including program and registration materials.

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SURF MEMBERSHIP

NEWSLETTER SUBMITTALS:

Deadline is the 15th of March, June, September, and December for the following quarterly issue. Contact the Newsletter Editor by email for submittal:

Gerlinde Wolf, AECOM
newsletter@sustainableremediation.org

Submittals are subject to editing for space considerations.

Address Changes

Please submit to the SURF Secretary at secretary@sustainableremediation.org.

Circulation

The newsletter is circulated to about 500 individuals directly and is posted online at www.sustainableremediation.org.

Sponsorship

Sponsorship is a great way to demonstrate to your communities, clients, employees, or shareholders that you are committed to advancing the science and application of sustainable remediation.

As an appreciation for sponsorship:

- Your company or organization will receive complimentary SURF memberships and meeting registrations
- Your company's or organization's name will be displayed on the SURF website and hyperlinked to your webpage
- Your company's or organization's name will be displayed in the SURF newsletter and announced during SURF events
- Your company or organization may use the SURF Sponsor logo

To inquire about sponsorship options, contact:
membership@sustainableremediation.org.

Join SURF or Renew your Membership TODAY!

SURF provides great value to our members, the public, and the practice of remediation. We do this by supporting:

- Alignment with organizational sustainability goals
- Environmental footprint reduction
- Social responsibility and public outreach
- Reduced remediation costs and long-term liabilities
- Innovative thinking, research, and real world application
- Peer benchmarking (domestic and international)
- Access to leading-edge case studies
- Opportunities to collaborate on publications
- Networking and access to subject matter experts
- Academic outreach and mentoring

By joining SURF, you establish partnerships and build relationships with a wide variety of remediation stakeholders: industry and agency peers, customers, clients, academia, technology vendors, and the public. Our website, meetings, and communications provide a clearinghouse and source for the latest information about policy, case studies, best practices, and educational opportunities.

As a member, you have the opportunity to participate in SURF's Technical Initiatives. SURF has published several groundbreaking guidance documents, and recent or current initiatives include examining more sustainable practices for water use and reuse, compiling sustainable remediation case studies, assessing the social aspects of sustainable remediation, and exploring the viability of a sustainable remediation site rating and professional certification system.

SURF has several membership levels based on an individual's qualifications: Regular Member (dues are \$150 annually for new members and \$140 for renewing members), Government Member (dues are \$50 annually), and Student Member (dues are \$25 annually).

The term for all classes of Members is February 1 through January 31 of the following year.

Learn more and apply for membership at www.sustainableremediation.org/membership/.