



UPCOMING MEETINGS:

SURF 24 – November 5-6, 2013
Rice University, Houston, Texas

Registration and agenda for SURF 24
will be available on the SURF website:
www.sustainableremediation.org

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SURF REPORT – SUMMER 2013

ASTM GREENER CLEANUP & OTHER TOOLS

At this year's Brownfields Conference (held May 15-17 in Atlanta, Georgia), a panel discussion entitled "*ASTM Greener Cleanup and Other Tools: Who Can Use Them and How*" explored the new cleanup standard that aims to provide a systematic process for reducing the environmental footprint of contaminated site cleanups.

The panel session kicked off with an introduction by Mr. Mathy Stanislaus, EPA's Assistant Administrator for the Office of Solid Waste and Emergency Response. He provided background on the new principles and emphasized the following two key aspects:

1. The principles were designed to be implemented in conjunction with existing regulatory frameworks.
2. The principles are designed to reduce the environmental footprint associated with remedies while moving the cleanup process forward.

Mr. Stanislaus' support for these principles, which provide an evaluation tool for "greening cleanups," was echoed throughout the discussion.

Panelist Marianne Horinko, President of The Horinko Group and representing SURF, focused on the growing support for sustainable cleanups, as well as the need to widely advocate for and apply these greener cleanup standards. She told participants of her experience seeing green remediation principles being embraced by a global audience as nascent cleanup programs are developed in other countries. The new cleanup standards and others like them focus on efficiency in cost, minimizing cleanup time, and reducing environmental footprint and, therefore, are a fundamental tool for serving communities in need.

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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 and Outreach 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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SURF'S UP IN THE WINDY CITY!

In July, SURF members convened at the University of Illinois Chicago (UIC) to hear about the societal perspectives associated with sustainable remediation. Meeting attendees benefited from the perspectives of several SURF student chapters, regulatory agencies, and local community groups. Highlights from the meeting are as follows:

- A lively discussion from the EPA and the Pilsen Environmental Rights and Reform Organization (PERRO) about local environmental cleanups impacting the Pilsen neighborhood in Chicago
- The introduction of a new SURF Technical Initiative – Estimating Society Impacts of a Remediation Project's Life Cycle Using Environmental Footprint Evaluation Tools (more details on Page 8)
- An evening poster session featuring leading sustainable remediation research from SURF student chapter members
- Overviews of ASTM's Greener Cleanup and Sustainable Remediation Standard Guides, including input from the EPA and local state regulatory agencies (more details on Page 5)
- A working session and updates on several SURF committees, working groups, and initiatives

Meeting presentations are available to SURF members at www.sustainableremediation.org under "Member Resources." SURF appreciates the contributions of all of the presenters and participants at the meeting and especially the planning efforts of Pamela Dugan (Carus Corporation) and Mike Rominger (MCR Facilitation Services).

Contributed by SURF Board Member Amanda McNally



EPA's Heriberto León (left) spoke to SURF 23 participants with other panel members Jerry Mead-Lucero (PERRO) and Rosita Clarke-Moreno (EPA).



SURF members Dick Raymond (Terra Systems), Scott Pittenger (Norfolk Southern), and Ray Lewis (Wastebits) discussed ideas for a new technical initiative during a break during SURF 23.



A panel of regulatory personnel gave their perspectives of green and sustainable remediation. (L to R: Brad Bradley, EPA Region 5; Heather Nifong, Illinois EPA; Deb Goldblum, EPA Region 3; Jennifer Borski, Wisconsin Dept. of Natural Resources)

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SURF 23: STUDENT PERSPECTIVES

The recent SURF 23 meeting was attended by four SURF student chapters: Colorado State University (CSU), Stanford University, Clarkson University, and the host of the meeting, University of Illinois at Chicago (UIC). All of the students said that SURF 23 was a great opportunity to meet other people who are interested in similar ideas and network with professionals from the remediation field. For many students, SURF 23 was their first time experiencing a professional conference. Emily Gonthier (Clarkson University) said, “Although nerve-racking, it was truly a refreshing and inspiring experience to meet with professionals and other students all interested in creating a more sustainable and healthy world, as I also hope to do in the future.”



SURF student members gather for a group photo along with the UIC chapter advisor, Dr. Krishna Reddy (top row, left).

In addition, students valued the theme of the meeting, “Societal Perspectives in Sustainable Remediation.” Melisa Tracy (CSU) said, “As engineers and scientists, I think it is easy to get wrapped up in the technical details of a project and focus on the environmental and economic components [of sustainable remediation]. SURF 23 was a great reminder of the importance of the social aspects.” Yamini Sadasivam and Erin Yaricoglu (both UIC) particularly enjoyed the case studies in which the social aspects of sustainable

remediation were highlighted. They said that the case studies helped to shed light upon one of the gray areas in the field of sustainable remediation and an important aspect of the triple bottom line in any LCA.

All of the students said that they would like to continue to participate in SURF meetings, and Chinghong Hsieh (Stanford University) suggested future meeting topic ideas such as the business value and market size and distribution of sustainable remediation. The students walked away from the meeting with a better understanding of SURF’s goals and sustainable remediation as well as renewed enthusiasm to pass onto other student chapter members.

Thank you to contributing SURF student members!

HOW TO ESTABLISH A STUDENT CHAPTER

The basic requirements to establish a student chapter are not complex; essentially there must be a faculty advisor and at least five student members, all of whom are members of SURF. The proposed chapter must qualify as a recognized student organization at the parent academic institution or meet a few requirements if the academic institution does not recognize student groups. Guidance on starting a student chapter, details of the requirements, and a sample constitution are available at sustainableremediation.org/membership.



Did you know that SURF is on LinkedIn? LinkedIn members: Search for “sustainable remediation forum” in Groups to join SURF’s discussion group on the LinkedIn professional networking site (www.linkedin.com).

Look for the SURF logo! 



ASTM SUSTAINABLE GUIDE PUBLISHED

ASTM released the *Standard Guide for Integrating Sustainable Objectives into Cleanup* (designation E2876), which “...provides an overarching, consistent, transparent and scalable framework that helps the user identify and incorporate sustainable best management practices into site cleanup...” Several SURF members participated in developing this guide over the past several years and its release has been much anticipated.

The original plan was to have the ASTM guide incorporate both Green and Sustainable Remediation (GSR) into a single guide, but as the original team worked on the project it was decided to separate the two into two separate (i.e., green and sustainable) teams and documents. The *Green Cleanup Standard Guide* may be released later this year.

Both guides were presented at SURF 23 by key members of each team. Helen Waldorf presented the Sustainable Guide and Deborah Goldblum (EPA Region 3), Heather Nifong (Illinois EPA), and Stephanie Fiorenza (BP and SURF member) presented the Green Guide. Both guides focus on best management practices and how to incorporate these practices into a cleanup.

The two ASTM guides will join SURF’s white paper (2009) and the Interstate Technology and Regulatory Council’s (ITRC’s) GSR-2 (2011) as key U.S.-based green and sustainable remediation frameworks. Similar to the SURF and ITRC documents, the new ASTM guides may become frequently referenced documents especially for BMPs as they have very good example lists of those that may apply to cleanup projects. Together, the three frameworks (SURF, ITRC, and ASTM) provide a compelling justification for and how to implement sustainable remediation.

SURF’s Sustainable Remediation Initiative (SRI) will be promoting this package of frameworks to stakeholders

throughout the U.S. over the next several months. SRI is soliciting volunteers for this effort; contact Buddy Bealer at leroy.bealer@shell.com with your interest or questions.

| Using This Guide | |
|------------------|---|
| Section 1 | Scope Sustainable Objectives Sustainable Aspects: Environmental, Economic, Social |
| Sections 2-4 | References, Terminology, Significance and Use |
| Section 5 | Planning and Scoping - Consider Core Elements Air Emissions, Community Involvement, Economic Impacts to the local community, Economic Impacts to the local government, Efficiencies in Cleanup and Costs Savings, Energy, Enhancement of individual human environments, Land and Ecosystems, Local Community Vitality, Materials and Waste, Water Impacts |
| Section 6 | Selection and Implementation of Best Management Practices |
| Section 7 | Quantifying Results |
| Section 8 | Documentation |
| Appendix X1 | Example Sustainable Best Management Practices |
| Appendix X2 | Example Documentation |
| Appendix X3 | Additional Resources |

A screenshot shows the various sections of the guide.

ASTM, continued from page 1

Ms. Horinko stressed the importance of the standards remaining rigorous while continuing to emphasize quick and sustainable cleanups. She believes that the standards provide value that can be demonstrated through transparent reporting and allow industry and remediation practitioners to conduct efficient cleanups. Ms. Horinko said that SURF will certainly play a role in spreading these principles with the hope that they are integrated into the cleanup process.

The panel session concluded with discussions about the best way to demonstrate the usefulness of the principles, case studies, and pilot-scale tests. More information about the standards is available at EPA’s website for green remediation.

Contributed by The Horinko Group



STUDENT CHAPTER MENTORS NEEDED – LESS THAN 5 HOURS/MONTH!

The Academic Outreach Initiative needs four volunteers to serve as mentors for four SURF student chapters – Colorado State University, Clarkson University, Stanford University, and the newly forming chapter at University of Texas – Austin. The role offers SURF members an opportunity to get involved with students, professors, and their research programs. With a time commitment of only two to four hours per month, SURF mentors will serve as the formal communications link between SURF and the student chapter as well as a sustainable remediation technical resource. The “job” description for a mentor is as follows:

- Contact the student chapter once or twice per month to discuss topics of interest.
- Answer occasional phone calls and emails from students.
- Keep the students up to date on SURF activities and opportunities for active participation in SURF’s technical initiatives.
- Be available to students to provide input on the practical, professional angle of students’ research and studies.
- Present webinars, live seminars, and/or coordinate presentations by other SURF members at student chapter meetings.

The remaining three student chapters have mentors: Syracuse University (Rick Wice, Tetra Tech), University of Illinois Chicago (Pamela Dugan, Carus Corporation), and Colorado School of Mines (Mike Miller, CDM Smith).

If you would like to be a mentor or help one of the current SURF mentors, contact Mike Miller (millerme@cdmsmith.com) or Pamela Dugan (pamela.dugan@caruscorporation.com).

DID YOU KNOW?

- » The EPA has screened over 66,000 contaminated sites for renewable energy potential?
- » A group of scientists and energy analysts has laid out a path under which New York State could, in theory, eliminate its use of fossil fuels and nuclear power — including for transportation — by 2050 with the use of renewable wind, water, and solar energy?
- » Four Former EPA Administrators have spoken out for climate change action?

You would if you visited the “News” on SURF’s website!
😊

GSR TRACK AT BATTELLE CONFERENCE

The *Ninth International Conference on Remediation of Chlorinated and Recalcitrant Compounds* will be held May 19-22, 2014, in Monterey, California and will feature a track on Green and Sustainable Remediation (GSR).

Several SURF members have been involved in planning the GSR track and are serving as session chairs. The track will also include a panel discussion, the details of which are to be determined. Below is a listing of potential sessions.

- *GSR Tools and Approaches to Assist in Decision Making*, Angela Fisher (SURF Vice President) and Russell Sirabian (SURF member)
- *The Social Dimension of Sustainable Remediation*, Melissa Harclerode and Paul Nathanail (both SURF members)
- *GSR Evaluation During Remedy Selection - Value Proposition*, Amy Hawkins and Rick Wice (SURF Board member)
- *Regulatory Agency Updates*, Carlos Pachon

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1ST ANNUAL SURF STUDENT DESIGN COMPETITION PLANNED – WINTER 2014

Planning for the first annual SURF Student Design Competition is in full swing! The competition is scheduled for kickoff during the Winter 2014 semester. Students will develop, evaluate, and select a remediation and site management strategy through the lens of sustainability for a “real-world” contamination problem. The goal of the finished product is a sustainable strategy that will achieve long-term protection of human health and the environment and gain public and regulatory acceptance. At the end of the semester, students will provide a report to a panel of judges who will evaluate each team’s deliverable based on criteria such as technical feasibility, creativity, and use of sustainable remediation tools. Although the details of the competition are pending, a live finalists’ competition is planned for the Summer 2014 SURF meeting.

TELL ME YOUR PROBLEMS!

- » Do you have “the perfect site” that could become the problem statement for the Student Design Competition?
- » Would you like to help develop other critical components of the program such as judging criteria, SURF’s advisory role, or marketing materials?

Contact Keith Aragona at karagona@haleyaldrich.com

This competition will allow students to work on a real-world engineering problem, interact with industry professionals, develop professional relationships, and develop the capability to use industry-standard sustainable remediation tools. The competition also will allow SURF members to foster students who want to pursue a career in environmental remediation.

Contributed by Keith Aragona, Haley & Aldrich

REGULATORS & GOV’T EMPLOYEES...

Are you interested in presenting or preparing a poster for a SURF meeting? Would you like to attend an in-house workshop to learn more about sustainable remediation initiatives, tools, and resources? Contact Buddy Bealer (leroy.bealer@shell.com) to learn more.

Note: Registration fees are waived for all invited contributors.

BATTELLE, *continued from page 6*

- *Integration of GSR Into Organizational Goals*, Carol Dona and Jake Torrens (SURF Board member)
- *Integrating GSR for Sustainable Land Reuse*, Stephanie Fiorenza (SURF member) and Karin Holland (SURF Past President)

If you are interested in contributing a presentation, short course, or paper, please note the following dates:

- Abstracts due: September 15
- Short course proposals due: September 30
- Student competition papers due: November 15

For more information, visit www.battelle.org/chlorcon.

Contributed by Russell Sirabian, Battelle

THANK YOU TO SURF’S 2013 SPONSORS!

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Silver

AMEC • Haley & Aldrich
Langan Engineering • Terra Systems

Bronze

AECOM • Tetra Tech



GET SOCIAL...NEW INITIATIVE UNDERWAY

Beginning this Fall, Melissa Harclerode (CDM Smith) and Kristin Mancini (ARCADIS) will be leading a new technical initiative focusing on the social aspect of sustainable remediation. To perform a complete sustainability assessment and develop or implement more sustainable remedies, the impact to the social and socio-economic nexus of remediation must be evaluated. For this effort, initiative members will prepare a white paper that provides methods to evaluate the social objectives that have been largely left out of existing standard sustainable remediation calculations.

The white paper will explore the importance of evaluating the social impacts from remediation activities and present different methods and case studies for evaluating these impacts. The methods presented in the white paper will include both quantitative and qualitative analyses. In addition, the white paper will explore the importance of society's relationship to the environmental and economic aspects of sustainable remediation.

An initiative team conference call will be held this Fall to solicit volunteers and comments on the initiative proposal. If you are interested in participating, contact Melissa Harclerode at harclerodema@cdmsmith.com.

MORE VOLUNTEER OPPORTUNITIES

SURF is seeking volunteers for the following Committees and Technical Initiatives. If interested, contact the member listed below.

- Membership Committee
jake.torrens@sustainableremediation.org
- Finance Committee
treasurer@sustainableremediation.org
- Research Initiative
stew.abrams@sustainableremediation.org

nex·us:

'neksəs/ *noun*

1. A connection or series of connections linking two or more things
2. A connected group or series
3. The central and most important point or place

EVENTS AND CONFERENCES

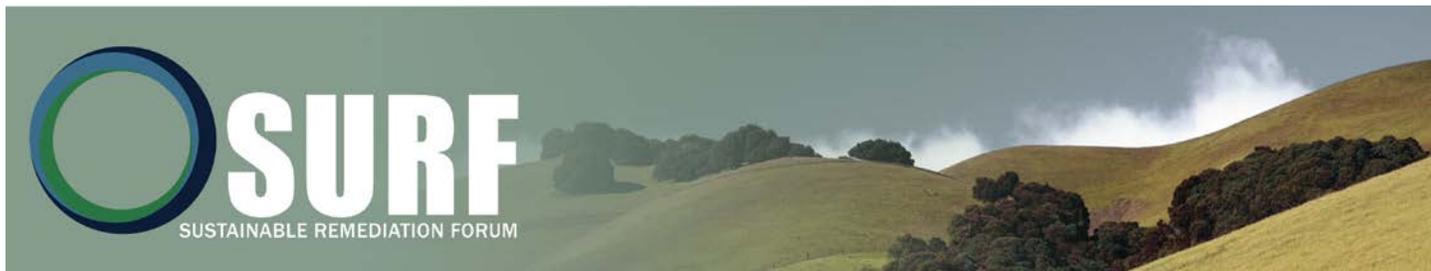
ITRC Green and Sustainable Remediation – September 19, 2013 – 11 a.m.-1:15 p.m. EDT or 3-5:15 p.m. GMT

This Internet seminar provides background on green and sustainable remediation (GSR) concepts, a scalable and flexible framework and metrics, and tools and resources to conduct GSR evaluations on remedial projects. The training is based on the Interstate Technology & Regulatory Council's (ITRC's) Green and Sustainable Remediation: A Practical Framework as well as Green and Sustainable Remediation: State of the Science and Practice. Beyond basic GSR principles and definitions, participants will learn the potential benefits of incorporating GSR into their projects; when and how to incorporate GSR within a project's life cycle; and how to perform a GSR evaluation using appropriate tools. In addition, a variety of case studies will demonstrate the application of GSR and the results. For more information and to register, visit CLU-IN's website at http://clu.in.org/live/#Green_&_Sustainable_Remediation_20130919.

Advanced Tools for In-Situ Green Remediation Workshop – September 23, 2013 – East Windsor, New Jersey

This workshop is designed to help participants develop an in-depth understanding of the proper selection and implementation of state-of-the-art tools and strategies

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for assessing and documenting in-situ degradation processes. Key speakers include the following:

- John T. Wilson, Research Microbiologist, EPA
- Kerry Sublette, Director – Center for Environmental Research and Technology, University of Tulsa
- Mike Hyman, Associate Professor – Department of Microbiology, North Carolina State University
- Joe Haas, Hydrogeologist and Engineering Geologist, New York Attorney General Environmental Protection Bureau

This workshop is approved by the New Jersey Site Remediation Professional Licensing Board for 6.5 technical continuing education credits. For additional information, visit the conference website <http://www.lsrpa.org/events>.

49th ISOCARP Congress – October 1-4, 2013 – Brisbane, Australia

The International Society of City and Regional Planners (ISOCARP) is hosting this conference, with the theme “Frontiers of Planning: Evolving and Declining Models of City Planning Practice.” Five tracks, including community and stakeholder engagement, explore this theme. In addition, six technical tours are offered. More information is available at www.isocarp.org.

10th International Phytotechnologies Conference – October 1-4, 2013 – Syracuse, New York

The State University of New York College of Environmental Science and Forestry, in partnership with the International Phytotechnology Society, is hosting the 10th International Phytotechnologies Conference from October 1-4, 2013 in Syracuse. Conference topics include phytoremediation field projects and research, greenroof

technology, and ecorestoration and habitat creation. For more information, visit the conference website at <http://www.esf.edu/outreach/pd/2013/phytotechnology>

The 29th Annual International Conference on Soils, Sediments, Water and Energy – October 21-24, 2013 – Amherst, Massachusetts

This conference will be held October 21-24, 2013 at University of Massachusetts in Amherst and will include sessions on sustainable remediation and sustainable environmental technologies as well as sustainable innovations in soil and groundwater remediation. The conference attracts over 600 attendees annually, including representatives from state and federal agencies; military; railroad, petroleum, transportation, and utilities industries; the environmental engineering and consulting community; and academia. For more information, visit <http://www.aehsfoundation.org/east-coast-conference.aspx>.

Groundwater Issues and Water Management - Strategies Addressing the Challenges of Sustainability in California - March 4-5, 2014 - Sacramento, California

The Groundwater Resources Association of California, in cooperation with the U.S. Society for Irrigation and Drainage Professionals, are hosting this conference on March 4-5, 2014 in Sacramento, California. The Conference will address a wide range of issues that are linked to groundwater resources and management challenges, including the interaction between surface and groundwater, groundwater banking and conjunctive use, the continued investment in water resources infrastructure and modern irrigation technologies, water quality objective compliance, and floodwater management for beneficial use. Additional information is available at <http://www.grac.org/giwm.asp>.

SURF MEMBERSHIP

Join SURF or Renew your Membership TODAY!

The practice of sustainable remediation is gathering world-wide momentum, and SURF is a rapidly growing and influential organization. By joining SURF, you establish partnerships and build relationships with a wide variety of stakeholders: industry and agency peers, customers, clients, members of academia, technology vendors, and the public. You'll have access to members who are helping to shape green and sustainable remediation guidance and assessment tools, academics and their research on innovative remediation technologies, and discussions about the state of the practice and lessons learned. The SURF website, meetings, and communications provide a clearinghouse and source for the latest information about policy, case studies, best practices, and educational opportunities.

SURF is engaged in several exciting technical initiatives, including integrated outreach to regulatory agencies; collaboration on an international white paper on sustainable remediation; integration of groundwater conservation and reuse into remediation projects; and development of a student design competition to foster relationships with our student chapter members.

Membership in SURF has tremendous benefits including alignment with organizational sustainability goals; forums for innovative thinking, research, and real world application; peer benchmarking; access to leading edge case studies, opportunities for publication; networking and access to subject matter experts, and academic outreach and mentorship.

SURF has several membership levels based on an individual's qualifications: Regular Member (dues are \$150 annually), Government Member (dues are \$100 annually), Academic Member (dues are \$100 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.

~ Registration renewals received after October 1st apply to next year! ~

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,
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.