



UPCOMING MEETINGS:

SURF 18 - September 21-22, 2011
Seattle, Washington

SURF 19 - January 30-February 1, 2011
San Diego, California

Registration and Agenda available
approximately one month prior to
meetings on the SURF website:

www.sustainableremediation.org

2011 BOARD OF TRUSTEES:

President

Paul Favara, CH2MHILL
president@sustainableremediation.org

Vice-President

David Woodward, AECOM
vice-president@sustainableremediation.org

Secretary

L. Maile Smith, Northgate Environmental
secretary@sustainableremediation.org

Treasurer

P. Brandt Butler, URS
treasurer@sustainableremediation.org

At-Large

Stephanie Fiorenza, BP
stephanie.fiorenza@sustainableremediation.org

Karin Holland, Haley & Aldrich
karin.holland@sustainableremediation.org

Steven Murawski, US ELC
steven.murawski@sustainableremediation.org

Curt Stanley, Shell
curt.stanley@sustainableremediation.org

Dan Watts, NJIT
dan.watts@sustainableremediation.org

Past President

Dave Ellis, DuPont
dave.ellis@sustainableremediation.org

SURF REPORT – SUMMER 2011

SURF RELEASES TRIO OF GUIDANCE DOCUMENTS

The Sustainable Remediation Forum (SURF) has issued three key guidance documents that set the stage for the future of environmental cleanup. The documents comprise a comprehensive road map for sustainable remediation – a movement to encourage cleanup projects that remove potentially dangerous contaminants from the environment while limiting external impacts and minimizing the use of energy, water, and other natural resources.

SURF's goal was to assist remediation practitioners by developing practical guidance on this rapidly evolving and often misunderstood subject. The trio of documents includes:

- Framework for Integrating Sustainability into Remediation Projects
- Metrics for Integrating Sustainability Evaluations into Remediation Projects
- Guidance for Performing Footprint Analyses and Life Cycle Assessments (LCAs) for the Remediation Industry

The Framework document outlines a sustainability assessment process that can be integrated with traditional, goal-based regulatory criteria. The Metrics document provides an extensive menu of quantitative and qualitative parameters, scalable to project size and scope, which are used to determine and balance the influences and impacts of a remedial action. The third document lays out a nine-step process for conducting either an environmental footprint analysis or LCA.

Sustainable remediation is not only about using “green” technologies, but thinking holistically about cleanup projects. Technological advances and life-cycle thinking embraced by sustainable remediation helps practitioners reduce or eliminate the unwanted effects of remediation, improve efficiency, and reduce human health risk.

State and federal agencies also recognize the environmental, economic, and social benefits of more sustainable approaches to cleanup projects, and are assessing and applying sustainability concepts in their

(Continued on Page 2)

SURF GUIDANCE DOCUMENTS (Continued from Page 1)

regulatory programs. At a recent SURF meeting, Jennifer Borski of the Wisconsin Department of Natural Resources remarked on the collective desire for better and cleaner cleanups, stating that “PRPs [primary responsible parties], environmental professionals, academics, attorneys and regulators have come together to develop better ways to address environmental contamination. These efforts ultimately benefit everyone and are commendable.”

The guidance documents, metrics toolbox, and SURF’s ground-breaking White Paper are available at www.sustainableremediation.org/library.

ABOUT SURF

The Sustainable Remediation Forum (SURF) was initiated in late 2006 to promote the use of sustainable practices during remedial action activities with the objective of balancing economic viability, conservation of natural resources and biodiversity, and the enhancement of the quality of life in surrounding communities.

The mission of SURF is to maximize the overall environmental, societal, and economic benefits from the site cleanup process by:

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

IN THIS ISSUE:

- SURF 17 Meeting Summary and SURF 18 Announcement
- New SURF Technical Initiatives
- Sustainable Remediation Events and Conferences



Did you know that SURF is on LinkedIn?



LinkedIn members: Search on “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!

COMMITTEE CHAIRS:

Communications and Outreach

Stephanie Fiorenza, BP
stephanie.fiorenza@bp.com
L. Maile Smith, Northgate Environmental
maile.smith@ngem.com
Jake Torrens, AMEC
jake.torrens@amec.com

Academic Outreach Initiative

Michael Miller, CDM
millerme@cdm.com
Pamela Dugan, Carus Corp.
pamela.dugan@caruscorporation.com

Government Outreach Initiative

Dave Woodward, AECOM
dave.woodward@aecom.com
Todd Martin, Integral Consulting
tmartin@integral-corp.com

Finance

Brandt Butler, URS
brandt_butler@urscorp.com

Meetings and Programs

Stephanie Fiorenza, BP
stephanie.fiorenza@bp.com

Membership

Dan Watts, NJIT
watts@njit.edu

Nominations

Paul Favara, CH2MHILL
paul.favara@ch2m.com

Technical Initiatives

Karin Holland, Haley & Aldrich
kholland@haleyaldrich.com

Framework Initiative

Karin Holland, Haley & Aldrich
kholland@haleyaldrich.com

Metrics Initiative

Brandt Butler, URS
brandt_butler@urscorp.com

Life Cycle Assessment Initiative

Paul Favara, CH2MHILL
paul.favara@ch2m.com

Contact chairs for volunteer opportunities!



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. Our Links pages act as portals to resources, tools, information, and documents from other organizations and individuals. The Calendar shows remediation, sustainability, and related conferences, as well as deadlines for submitting abstracts. There is also a public Discussion Forum and a Bulletin Board in our Member Resources section for topics and questions addressed specifically to the SURF membership. Suggestions for additions and improvements are welcome by using the Contact SURF form on the website or by emailing administrator@sustainableremediation.org.

SURF ZONE – SURF 17 in Chicago, IL

SURF's 17th meeting was held at US Environmental Protection Agency Region 5 Headquarters in Chicago Illinois in May, and focused on the theme "The Incorporation of Green and Sustainable Remediation into Projects at the State and Federal Level within Region 5." SURF would like to thank US EPA Region 5 for hosting the meeting and for their engaged participation. The first day of the meeting included two SURF committee and initiative working sessions, followed by a panel discussion focusing on the meeting's theme. Brad Bradley, Superfund Greener Cleanup Coordinator for Region 5, moderated the panel discussion, which featured the following representatives from state environmental regulatory agencies:

- Jennifer Borski, Wisconsin DNR

- Rebecca Bourdon, Minnesota PCA
- Mark Ducharme, Michigan DEQ
- Gary King, Illinois EPA
- Nancy Zikmanis, Ohio EPA

The second day of the SURF meeting included the following presentations:

- Keynote Address: "Building Sustainable Communities: The Economics of Cleaning Brown to Green," Robert Colangelo, Executive Director of the National Brownfields Association
- "Structure for a Sustainable World," Henry Henderson, Midwest Director of the Natural Resources Defense Council
- "Sustainability is Alive and Well in Ohio," Nancy Zikmanis, Ohio EPA
- "Sustainable Remediation Database Project Update," Paul Anderson, Illinois Institute of Technology
- "The PLACES Program," Dick Raymond, Terra Systems

NEXT SURF MEETING

Registration is Now Open!

SURF invites you to attend the 18th meeting of the SURF community! SURF 18 will be held in downtown Seattle, Washington on September 21 and 22, 2011.

Topics that will be discussed include:

- Sustainable remediation opportunities and challenges in the urban environment
- Unique challenges of sustainable cleanups in the Northwest
- Integrating social aspects and economic considerations in sustainable remediation
- Update on state and global green and sustainable remediation initiatives



There will also be a panel discussion titled, “How are your organizations integrating sustainability into site cleanups?”

SURF committees and initiatives will engage in working group discussions Thursday morning, and a Thursday afternoon tour of the Boeing Everett Plant has been scheduled. And, as is our tradition, there will be a group dinner at a local restaurant after the first day’s activities.

Participants are encouraged to register early, as space is limited and we expect this to be a well-attended meeting. Visit the SURF meeting Agenda and Bulletin Board pages to learn more and www.sustainableremediation.org/registration to register for SURF 18. Keep an eye on the SURF website for information about future meetings.

NEW SURF INITIATIVES

Sustainable Remediation Site of Sites Initiative

The “Site of Sites” will be an internet-based resource that will categorize and provide links to existing sustainable remediation resources and tools already published on the internet, describe their unique utility and objectively rate them to the extent possible. Contact Steve Murawski (smurawski@uselc.com) or Ray Lewis (rlewis@sunproservices.com) for more information or to volunteer to work on this initiative.

Sustainable Remediation Site Rating & Professional Certification System

This initiative aims to determine if an adequate business case exists for developing and applying a site rating and professional certification system applicable to sustainable remediation, and, if so, develop and implement such a system. Contact Dick Raymond

(draymond@terrasystems.net) or Ray Lewis (rlewis@sunproservices.com) for more information or to volunteer to work on this initiative.

The Integration of Sustainable Remediation and Sustainable Redevelopment

This initiative will identify the different sustainable remediation and sustainable redevelopment efforts currently taking place, develop guidance for practitioners to better integrate sustainability iteratively throughout the remediation and redevelopment process, and form partnerships with and act as a resource to like-minded programs and organizations, e.g., EPA’s brownfield program, DOT/EPA/HUD Sustainable Communities Initiative, the National Brownfields Association, the United States Green Building Council, the Urban Land Institute. Contact Karin Holland (kholland@haleyaldrich.com) or Stella Karnis (stella.karnis@cn.ca) for more information or to volunteer to work on this initiative.

FACILITATOR’S CORNER

We have initiated a new round of training for our SURF committee and initiative leaders and scribes. Please contact Mike Rominger if you wish to be included.

THANK YOU TO SURF’S SPONSORS!

Gold

AECOM • Arcadis • Boeing • BP
CH2M HILL • DuPont • Waste Management

Silver

Geosyntec • Terra Systems • WRScompass

Bronze

Langan Engineering



SUSTAINABLE REMEDIATION EVENTS AND CONFERENCES

Remediation of Chlorinated and Recalcitrant Compounds – The Eighth International Conference – May 21-24, 2012

The Eighth International Conference on Remediation of Chlorinated and Recalcitrant Compounds will be held in Monterey, California, May 21-24, 2012. Make plans now to attend. The breadth and depth of the technical program, combined with ample opportunities to meet and share experiences and ideas with other environmental professionals, will make this a valuable investment for you and your organization in 2012.

The conference will have a full track for Green and Sustainable Remediation. Preliminary session titles include:

1. Estimating Remediation Impacts: Tools and Approaches (Quantitative or other distinction)
2. Estimating Remediation Impacts: Tools and Approaches (Semi-quantitative or other distinction)
3. Integrating Renewable Energy into Remedial Programs to Achieve Cost-Effective Solutions
4. Incorporating GSR Practices into Remedy Selection and Design
5. Incorporating GSR Practices into Remedy Operation and Optimization
6. Incorporating societal, ecologic and economic aspects into GSR
7. Demonstrating Value of GSR: Making Decisions that Reduce Footprint
8. Programs and Incentives to Promote GSR

IT'S NOT TOO LATE TO SUBMIT AN ABSTRACT! SURF members may submit an abstract for any of the sessions above by August 15, 2011. The abstract specifications and submittal page provides an overview and launching point for the process. Please enter ***SURF Member*** and the session number on the submittal form

in the subject area field to ensure that your abstract will first be considered for the session you requested. (For example, a submission for Session 6 would be listed in the subject area as "SURF Member Session 6".)

Feel welcome to email Russ Sirabian (sirabianr@battelle.org) or Paul Favara (Paul.Favara@ch2m.com) with any questions. Visit the conference website for more information (<http://www.battelle.org/conferences/chlorinated/>).

Greener Cleanups - EPA's Methodology for Understanding and Reducing a Project's Environmental Footprint – August 10, 2011

The US EPA is developing a methodology for evaluating the environmental footprint in order to reduce the footprint and improve the outcome of cleanup under any regulatory program. EPA will host an interactive Internet seminar on August 10th to provide information about the environmental footprint assessment methodology and to obtain feedback from the environmental remediation community. Visit the Clu-In website for more information (www.clu-in.org).

International Conference on Environmental Pollution and Remediation – August 17-19, 2011

The aim of ICEPR is to bring together the Canadian and international community working in the field of environmental sciences, engineering, and technology, and to foster an environment conducive to present advances in this field. This conference will also provide a golden opportunity to develop new collaborations and gather world experts on the different topics including pollution detection, environmental remediation, and pollution prevention. Learn more at the conference website (icepr2011.international-aset.com).



***The Eighth International Phytotechnologies Conference
- September 12, 2011***

The International Phytotechnology Society will hold its 8th annual conference in September 2011 at the Doubletree in Portland, Oregon. The conference is titled "Putting Plants to Work for Practical Ecology," hosted by SPROut, the Sustainable Plant Research and Outreach Center. Visit the society's website for more information (www.phytosociety.org).

ITRC Fall Meeting – October 24-28, 2011

ITRC's 2011 Fall Meeting will be held October 24-28 in Denver, Colorado. The meeting will offer environmental professionals from across the country an opportunity to network and collaborate on innovative approaches to solving environmental challenges. Learn more at the meeting website (www.itrcweb.org/2011FallMeeting.asp).

ASTM Committee Week – October 31-November 4, 2011

ASTM's Environmental Assessment, Risk Management and Corrective Action committee will meet November 1-3, 2011. The meeting is part of ASTM's committee week, which will be held at the Tampa Marriott Waterside in Tampa, Florida. Visit the ASTM International website for more information.

COMPETITIONS, SCHOLARSHIPS, AND GRANTS

Syracuse University is SURF's Newest Student Chapter!

The second Student Chapter of SURF has been established at Syracuse University. The founding members include six student members in addition to several local members who have not yet joined the national SURF organization. The chapter faculty advisor

is Kathleen Joyce, Assistant Dean in the L. C. Smith College of Engineering and Computer Science at Syracuse. The founding president, Ankit Balaria, attended a SURF meeting as a graduate student and became sufficiently interested in the organization and the future of Sustainable Remediation that he worked to establish the student chapter by generating interest on the part of Syracuse students and the support of the College. The success of his efforts is demonstrated by the formal recognition of the chapter. Deepika Venkataramani, the chapter founding vice-president has also attended a SURF meeting and was impressed not only with the technical content, but also by the interest that SURF members took in students by providing both technical guidance and career advice.

A formal presentation of the charter is expected to take place at a fall meeting of the Syracuse student chapter. The chapter hopes to be able to call on SURF members in the Syracuse area to serve as speakers for meetings and to help in organizing other professional experiences for the SURF student members.

How to Establish a SURF Student Chapter

SURF encourages the use of principles and concepts of sustainable remediation through education, research, and dissemination of information. SURF believes that the goals of the profession can be achieved in part by encouraging the consideration, study, and application of sustainable remediation fundamentals, principles, and concepts at colleges and universities. To aid this effort, SURF welcomes the establishment of Student Chapters at institutions of higher education and will endeavor to assist their creation and activities.

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 is available on the SURF website (www.sustainableremediation.org/membership).

Regulators: Are you interested in making a presentation or preparing a poster for an upcoming SURF meeting? Contact Dave Woodward (dave.woodward@aecom.com) or Todd Martin (tmartin@integral-corp.com) to learn more about this opportunity. Note that SURF waives meeting registration fees for all invited presenters.

OTHER NEWS AND ANNOUNCEMENTS

SiteWise Version 2 Now Available

The second version of SiteWise has been published and is available for download via the NAVFAC Green and Sustainable Remediation website.

The SiteWise tool, developed jointly by the Navy, Army Corps of Engineers, and Battelle, is a publically available tool for conducting a baseline environmental footprint of a remedial technology.

Additional materials and information on sustainable remediation are available in the Links section of the SURF website, and in the SURF Library.

SURF Policy Documents

The SURF Board of Trustees remains busy building upon the organization's Bylaws with the following policy documents, available on the SURF website:

- Bylaws Amendment No. 1
- Communication Guidelines
- Conflict of Interest Policy
- Logo Use Policy
- New Initiative Proposal Policy
- Technical Initiative Work Product Review Policy
- Meeting Attendance Policy
- Student Chapter Guidance

Members may download copies of these materials in the Member Resources section of the SURF website.

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 developing a consensus-based framework for sustainable remediation; fostering standardized sustainable remediation criteria and metrics; and promoting consistency, transparency, and best practices for Life Cycle Assessment.

The benefits of SURF membership are many, but simply put, you will improve your understanding of sustainable remediation, network with hundreds of other professionals, enhance your career opportunities, and have fun doing so.

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.

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:

Amanda McNally,
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 400 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.