



UPCOMING MEETINGS:

SURF 25 – February 5-7, 2014
Pasadena, California

Registration for SURF 25 is NOW OPEN:
www.sustainableremediation.org/registration

Abstracts for presentations are now being accepted for consideration. Email your abstract to maile.smith@sustainableremediation.org no later than Jan. 6, 2014.

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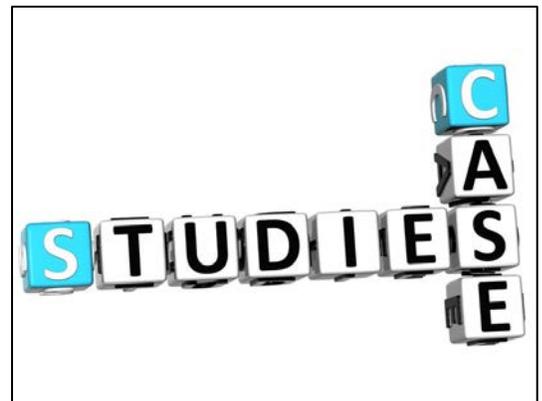
SURF REPORT – WINTER 2013

SURF LAUNCHES CASE STUDY INITIATIVE (CSI)

John Simon (Gnarus Advisors, LLC) is leading a new technical initiative that will compile case study examples of sustainable remediation. The development of this technical initiative was driven by the overwhelming feedback from SURF members and non-members about the need for a case study inventory to help advance the practice of sustainable remediation. The goal of the inventory is to:

- Summarize examples of successful implementation of sustainable remediation.
- Demonstrate how the triple bottom line objectives of sustainability (i.e., environmental, societal, economic) have been met.

Currently, the CSI team is working on developing a template for case studies. After completing the template, the team will set criteria for submitting and evaluating case studies and will develop a standardized presentation format.



Then, the team will reach out to SURF members for case studies. After creating the inventory, the team will continue to solicit submissions from SURF members to update it with new projects and/or innovative technologies.

Once complete, the case studies will be available to members as a resource for sharing best practices. If you have any questions about this technical initiative or want to get involved, please contact John Simon at jsimon@gnarusllc.com.

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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.

IN THIS ISSUE:

- SURF Launches Case Study Initiative (CSI)
- SURFers – NOMINATE NOW!
- SURF Joins in NAS Panel Discussion
- Mission Accomplished!
- SURF at NEWMOA Workshop
- SURF 24: Assessment Tools
- Events and Conferences

Follow SURF on  @SR_Forum



ELECTION SCHEDULE

SURFers – NOMINATE NOW!

SURF brings together people from all areas of remediation and provides a forum to share and discuss ideas and experiences about sustainable remediation.

But that doesn't happen without YOU. Elections for available SURF Board of Trustees positions will be held in January 2014. Consider nominating someone (or yourself) for one of the following positions:

- President – 1-year term
- Vice President – 1-year term
- Secretary – 1-year term
- Treasurer – 2-year term
- At-Large – 2-year term
- At-Large – 2-year term

The remaining At-Large Trustees will be serving the second year of their terms in 2014.

Nominations for these positions are being accepted until midnight December 31, 2013. Both nominator and nominee must be SURF members in good standing (see the Membership Directory for a list of SURF members in good standing). Self-nominations are permitted. Please confirm with your nominee that they wish to be a candidate prior to submitting their name. Student members are ineligible to serve on the Board or vote.

To nominate a fellow SURFer, log in to the SURF website and access the nominations page at www.sustainableremediation.org/board-of-trustees-nominations. If you have forgotten your login or password for the SURF website, e-mail administrator@sustainableremediation.org.

- » Nominations will be accepted until midnight December 31, 2013.
- » The Nominations Committee will finalize the ballot by January 2, 2014.
- » Voting will occur from January 3, 2014 to January 17, 2014. If, due to a tie, a run-off is needed, a second voting period will occur from January 20 through 27, 2014.
- » We expect to announce the results by January 31, 2014 by e-mail.

SURF JOINS IN NAS PANEL DISCUSSION

At panel discussion at a recent National Academy of Science (NAS) meeting explored the sustainable remediation framework as a systematic process for reducing the environmental footprint of contaminated site cleanups. SURF members participated in the panel discussion at the meeting, which was held on October 30-31, 2013 in Washington, DC. Meeting attendees included representatives from the Department of Energy, Environmental Protection Agency, Department of Defense, Nuclear Regulatory Commission, Interstate Technology & Regulatory Council, and Natural Resources Defense Council. State environmental agencies personnel, academics, and environmental consultants also attended the meeting.

The panel session began with an introduction by Maureen Sullivan, Director of Environmental Management for the Office of the Deputy Undersecretary of the Department of Defense. She highlighted a few recent sustainability accomplishments in the field of remedy optimization and shared her

Continued on page 4



NAS PANEL DISCUSSION, continued from page 3

thoughts on impediments to sustainable remediation implementation, including organizational culture and risk aversion. From her perspective, definitional clarity and consistent application remain major challenges to successfully implementing sustainable remediation.

Nick Garson (Boeing) represented SURF and focused his comments on the state of sustainable remediation practices. He highlighted some of the similarities and differences associated with the industry practitioner definition of green and sustainable remediation. Nick presented several case studies that demonstrate successful sustainable remediation implementation and the use of triple bottom line objectives. He wrapped up his discussion with a brief overview of the current challenges facing sustainable remediation implementation, including regulatory agency support, limited case study examples, and the need for consistent metrics and for sustainable remediation objectives to be integrated into responsible parties' and environmental agencies' remediation and site closure strategies.

Buddy Bealer (Shell) focused on the theory of sustainable remediation and reviewed the existing U.S. sustainable remediation frameworks. Buddy introduced a tiered approach that allows a flexible and scalable application of sustainable remediation to projects. Examples of projects in the different tiers were presented.

The panel discussion concluded with an informative round of questions and discussion. Participants were asked to discuss their closing thoughts about the usefulness of the principles and information sharing during the meeting and how to best to consider sustainable remediation objectives into conceptual site models. The NAS plans to publish the meeting

proceedings in an upcoming document scheduled for release in the Spring of 2014.

Contributed by Nick Garson and Buddy Bealer

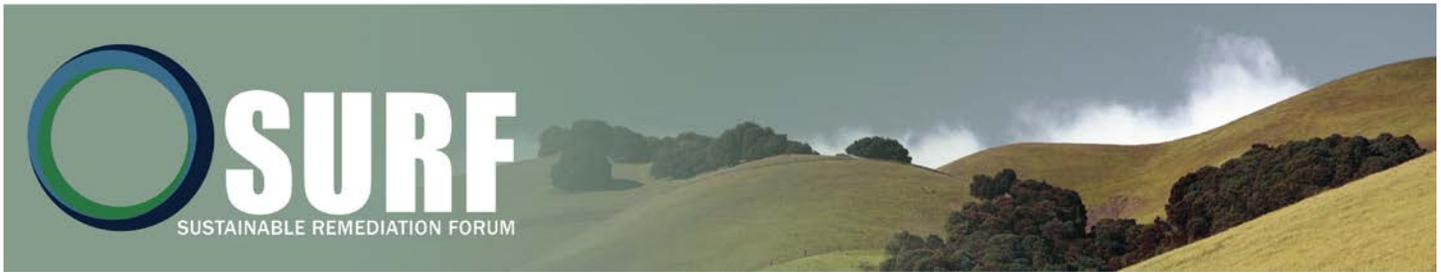
MISSION ACCOMPLISHED!

Members of SURF's Groundwater Conservation and Reuse Technical Initiative have completed their mission! Over 20 SURF members have developed a brochure that not only explores groundwater conservation and reuse in remediation projects, but also emphasizes potential opportunities for application and highlights best practices. Through case studies, SURF demonstrates the value of using existing documents, tools, and the municipal wastewater industry's reuse of treated effluents as a guide to applying water stewardship concepts into the design, implementation, and maintenance of remediation systems for contaminated groundwater. The brochure, as well as an article in *Remediation*, will be published early next year and will be available on SURF's website.

Continued on page 5



SURF TI Appreciation Awards were presented to four team members for their outstanding efforts. Jeremy Jasmann joked that he wanted his surfboard "...6'8" in length... [for] some paddle boarding on Horsetooth Lake nearby." (Actual surfboard size is approximately 14 inches.)



MISSION ACCOMPLISHED, continued from page 4

During SURF 24, Paul Hadley (California Department of Toxic Substances Control), Melissa Harclerode (CDM Smith), Carl Lenker (Gannett Fleming), and Jeremy Jasmann (Colorado State University) were presented with awards in appreciation for all of their work on the initiative.

SURFers AT NEWMOA WORKSHOP

Buddy Bealer (Shell) and Michael Miller (CDM Smith) participated in the Northeast Waste Management Officials' Association (NEWMOA) workshop held December 4-5, 2013 in Dayville, Connecticut and Westford, Massachusetts. The theme of the workshop, "Moving Toward More Sustainable Remediation," included regulators and consultants from member states (Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, and Vermont).

The SURF presentations focused on the basic theory and practice of sustainable remediation as well as several example projects. Personnel from the Environmental Protection Agency, Massachusetts Department of Environmental Protection, and New York State Department of Environmental Conservation gave presentations on greener cleanups, renewable energy, and optimization, respectively.

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.

NEWMOA is a non-profit, non-partisan interstate association whose mission includes leading and sustaining an effective partnership of states that helps achieve a clean, healthy, and sustainable environment by exploring, developing, promoting, and implementing environmentally sound solutions for remediating contaminated sites.

Contributed by Buddy Bealer and Michael Miller

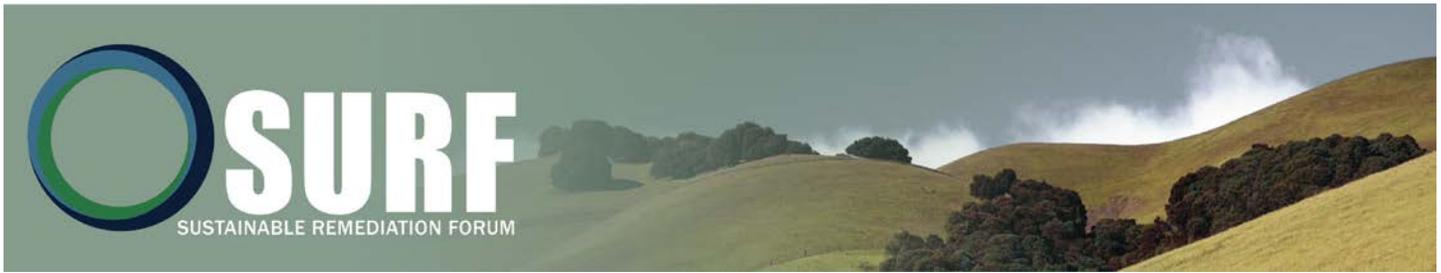
GOOD NEWS!

The work of the Groundwater Conservation and Reuse Team will be presented at the Groundwater Resources Association of California Conference on March 4-5, 2014 in Sacramento, California. The theme of the conference is "Groundwater Issues and Water Management – Strategies Addressing the Challenges of Sustainability in California"

Jake Torrens (SURF Member) will be giving an oral presentation at the conference on behalf of the team. Congratulations to everyone involved!

SURF 24: ASSESSMENT TOOLS

In November, SURF members tuned in to SURF 24, a webinar about case studies in sustainable remediation. Curt Stanley (Shell) and Matt Vanderkooy (Geosyntec Consultants) presented two case studies that compared sustainable remediation tools. Curt's case study tested using a tiered sustainability assessment approach at a retail gas station in the United Kingdom. Matt's case study compared three sustainability assessment tools as part of a life-cycle assessment for a coal tar contaminated site. A summary of the meeting and the presentations are available to SURF members at www.sustainableremediation.org under "Member Resources."



EVENTS AND CONFERENCES

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

This conference will address a wide range of issues 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, meeting water quality objectives, and managing floodwaters for beneficial use.

Please visit the conference website (<http://www.grac.org/giwm.asp>) for more information, including program and registration materials.

The Ninth International Conference on Remediation of Chlorinated and Recalcitrant Compounds – May 19-22, 2014 – Monterey, California.

This *Ninth International Conference on Remediation of Chlorinated and Recalcitrant Compounds* will be held May 19-22, 2014, in Monterey, California. One of the world's most comprehensive environmental remediation conferences, the conference typically is attended by more than 1,600 scientists, engineers, regulators, remediation site owners, and other environmental professionals representing universities, government agencies, and R&D and manufacturing firms from about 30 countries. The 2014 Conference will provide an intensive four-day technical program of approximately 800 platform and poster presentations and several panel discussions.

Please visit the conference website (<http://battelle.org/media/battelle-conferences/chlorcon>) for more information, including program and registration materials.

THANK YOU TO SURF'S 2013 SPONSORS!

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Silver

AMEC • Haley & Aldrich
Langan Engineering • Terra Systems

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The 3rd International Conference on Sustainable Remediation – September 17-19, 2014 – Ferrara, Italy

This conference aims to stimulate an international exchange by allowing professionals and interested parties to share experiences and perspectives on how contaminated sites can be remediated with a lower environmental footprint and how site reuse can contribute to a more sustainable land development.

The event builds on the *Green Remediation Conference* (held in Copenhagen in November 2009), *The 2nd International Conference on Sustainable Remediation* (held in Vienna in November 2012), discussions at ConSoil 2010 and 2013, and virtual events hosted by the U.S. Environmental Protection Agency.

Additional information is provided at <http://www.sustrem2014.com/index.html>.



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! 

SURF MEMBERSHIP

Join SURF or Renew your Membership TODAY!

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. 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 member benefits:

- Special member registration rates for meetings
- Online access to all previous meeting presentations
- Access to leading-edge, real world case studies
- Networking with subject matter experts and remediation's most innovative thinkers
- Opportunities to collaborate on professional publications
- Develop and learn best practices for reducing environmental footprints, remediation costs, and long-term liabilities
- Alignment with organizational sustainability and social responsibility goals
- All members can participate in leadership positions in SURF's organizational and technical committees and initiatives
- Regular, government, and Academic members can nominate, vote, and run in annual Board of Trustees elections

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: Regular (dues are \$150 annually), Government (dues are \$100 annually), Academic (dues are \$100 annually), and Student (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:

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.