



UPCOMING MEETINGS:

SURF 27 – November 11-12, 2014
University of Michigan
Ann Arbor, Michigan

Registration and agenda for SURF 27 will be available on the SURF website:
www.sustainableremediation.org

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president@sustainableremediation.org

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buddy.bealer@sustainableremediation.org

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melissa.harclerode@sustainableremediation.org

Olivia Skance, Chevron
olivia.skance@sustainableremediation.org

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jake.torrens@sustainableremediation.org

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rick.wice@sustainableremediation.org

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Karin.holland@sustainableremediation.org

SURF REPORT – JULY 2014

GREEN & SUSTAINABLE REMEDIATION ROUNDTABLE

The Sustainable Remediation Initiative (SRI) convened and some SURF members participated in The Green & Sustainable Remediation Roundtable on June 3, 2014. The dynamic group of public and private sector environmental remediation professionals discussed the current process for implementing Green and Sustainable Remediation (GSR) in federal and state cleanup programs and potential opportunities to advance GSR concepts.



Some participants in the roundtable gather for a group photo. L to R: Buddy Bealer (SURF At-Large Board member), Keith Aragona (SURF Treasurer), Nick Garson (SURF President), Marianne Horinko (SURF member), Karin Holland (SURF Past President), Rebecca Bourdon (SURF Pioneer Award recipient), and Melissa Harclerode (SURF At-Large Board member). In attendance but not pictured: Rick Wice (SURF At-Large Board member) and John Simon (SURF member).

In recent years, the concepts of “green” and “sustainable” remediation have grown and the implementation of such practices has led to positive environmental and public health outcomes. Although many remediation stakeholders have embraced the concept of GSR, some federal and state organizations face structural and historical challenges. As a result, GSR concepts are being implemented in a patchwork fashion across the U.S., with only some communities experiencing the benefits.

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COMMITTEE CHAIRS:

Communications

L. Maile Smith, Northgate Environmental
maile.smith@ngem.com
Jake Torrens, AMEC
jake.torrens@amec.com

Education and Outreach

Stephanie Fiorenza, BP
stephanie.fiorenza@bp.com
Rick Wice, Tetra Tech
rick.wice@tetratech.com

Academic Outreach

Michael Miller, CDM Smith
millerme@cdmsmith.com
Keith Aragona, Haley & Aldrich
karagona@haleyaldrich.com

Government Outreach

Buddy Bealer, Shell
leroy.bealer@shell.com
Stephanie Fiorenza, BP
stephanie.fiorenza@bp.com

Finance

Keith Aragona, Haley & Aldrich
karagona@haleyaldrich.com

Meetings and Programs

Kristin Mancini, ARCADIS
kristin.mancini@arcadis-us.com

Membership

Jake Torrens, AMEC
jake.torrens@amec.com

Nominations

Open

Technical Initiatives

Karin Holland, Haley & Aldrich
kholland@haleyaldrich.com
Paul Favara, CH2MHILL
paul.favara@ch2m.com

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:

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- 2013 SURF Pioneer Awards
- Battelle Conference Highlights
- SURF's Comments on U.S. EPA's Report on the Environment
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- Events and Conferences

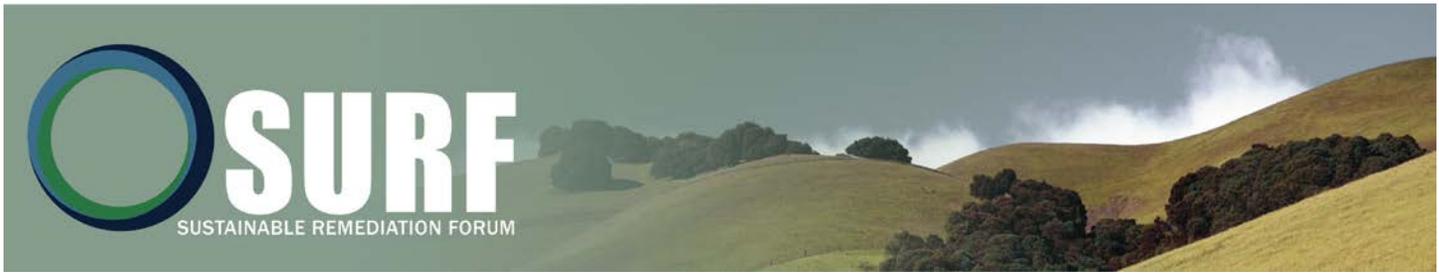
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Search LinkedIn for "Sustainable Remediation Forum" to join



@SR_Forum



2013 SURF PIONEER AWARDS

SURF is pleased to announce that Rebecca Bourdon [Minnesota Pollution Control Agency (MPCA)] and Tom O'Neill [New Jersey Department of Environmental Protection (NJDEP)] are recipients of the 2013 SURF Pioneer Award. This award is presented to sustainable remediation stakeholders who are passionate and active in advancing the art and science of sustainable remediation.



Rebecca Bourdon (Minnesota Pollution Control Agency) received a 2013 SURF Pioneer Award from SURF President Nick Garson at the Green and Sustainable Roundtable in June.

Rebecca and Tom co-lead the Interstate Technology and Regulatory Council's (ITRC's) Green and Sustainable Remediation (GSR) Team that developed the document *Green and Sustainable Remediation: A Practical Framework (GSR-2)*. The ITRC has a robust stakeholder process to develop guidance documents, and Rebecca and Tom led the GSR effort with one of the largest teams assembled for an ITRC project. Both did so with professionalism and enthusiasm and were successful in developing a document that is used by many stakeholders. More background about Rebecca and Tom is provided below.

- Rebecca is a Hydrogeologist in the Petroleum Remediation Program of the Minnesota Pollution Control Agency (MPCA) and the Green and Sustainable Remediation and Redevelopment

Coordinator for the MPCA's Remediation Division. In this role, she teams with colleagues to produce division-wide GSR guidance for state and federal funded cleanups, GSR language for state contracts. Rebecca is a member of the ASTM International Standard Guide for Greener and More Sustainable Cleanup Task Group and the EPA Region V Greener Cleanups Work Group.

- Tom is a Section Chief with the NJDEP's Site Remediation and Waste Management Program. Initially, he was an On Scene Coordinator with the NJDEP, overseeing publicly funded removal actions and site remediation projects. Later, Tom was responsible for the formation of the Operations and Maintenance Section, which currently handles publicly funded long-term remediation and monitoring sites. Tom has also served as the co-Leader of ITRC's Remediation Risk Management and Remediation Process Optimization Teams.

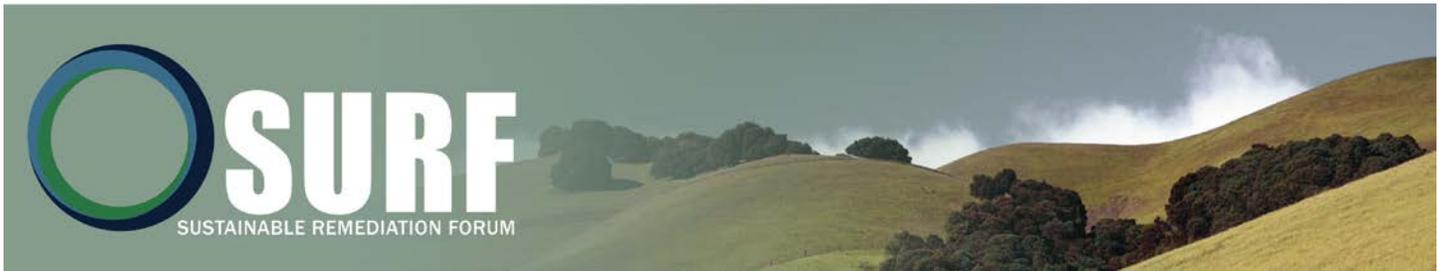
Rebecca and Tom continue to support and engage in sustainable remediation activities and are true sustainable remediation champions. SURF is proud to recognize Rebecca and Tom and congratulate them on their achievements!

BATTELLE CONFERENCE HIGHLIGHTS

The Ninth International Conference on Remediation of Chlorinated and Recalcitrant Compounds was held on May 19-22 in Monterey, California. A track at the conference focused on GSR and included informative presentations from SURF members (see below).

- Maile Smith (Northgate Environmental Management) gave a presentation about monetizing sustainability metrics during redevelopment.

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ROUNDTABLE, continued from page 1

Roundtable participants had a lively discussion about the challenges of and opportunities for GSR implementation, including actions that both public and private sectors can take to overcome obstacles and further the understanding of GSR practices. As such, the roundtable provided a unique opportunity for mutual learning, information gathering, and sharing of views. A detailed

summary of the discussion has been drafted and will be available to SURF members on the SURF website.

Several ideas were discussed as potential next steps. In the next few months, SRI and SURF will work with roundtable participants to develop an action plan to promote the acceptance of GSR. SURF will continue to work on this effort and report on plans and opportunities for members to participate.

Contributed by Buddy Bealer

SURF COMMENTS ON U.S. EPA'S REPORT ON THE ENVIRONMENT

In April 2014, the U.S. Environmental Protection Agency (EPA) issued a draft *Report on the Environment* (RoE). The intent of the report is to “measure the health of the environment and its impacts on Americans, and that contains first-time indicators on sustainability, including metrics on energy use, freshwater withdrawals, hazardous waste and municipal solid waste”. SURF members of the Sustainable Remediation Initiative (SRI) reviewed the RoE and issued a response during the public comment period (see below).

SURF supports the effort of the USEPA to measure and track key sustainable indicators. Several pertinent indicators have been proposed. In addition to those proposed, SURF would like to suggest a few additional that are used to evaluate sustainable aspects of remediation projects, including:

- *Number of contaminated sites undergoing reuse (e.g., Brownfields returned to use)*
- *Implementation cost of remediation projects*
- *Number of public engagements associated with remediation projects*
- *Property value enhancement*
- *Restoration of contaminated groundwater for reuse*

Additionally, SURF applauds the agency for beginning to incorporate the idea of sustainability into its Report on the Environment (RoE). To that end, SURF suggests that the indicators selected under the Sustainability Theme reflect a complete triple bottom line approach. The four proposed indicators under the Resource Consumption sub-theme (i.e., energy use, fresh water withdrawals, municipal solid waste, and RCRA hazardous waste) apply to the environmental aspect of the triple bottom line. Furthermore, only energy use is not repetitive of indicators in other themes (Fresh Water and Land). SURF recognizes the (RoE) sustainability indicators have been normalized by population size (a social indicator) and by annual economic output (an economic indicator). However, several additional social and economic variables influencing sustainability indicators are not currently considered.

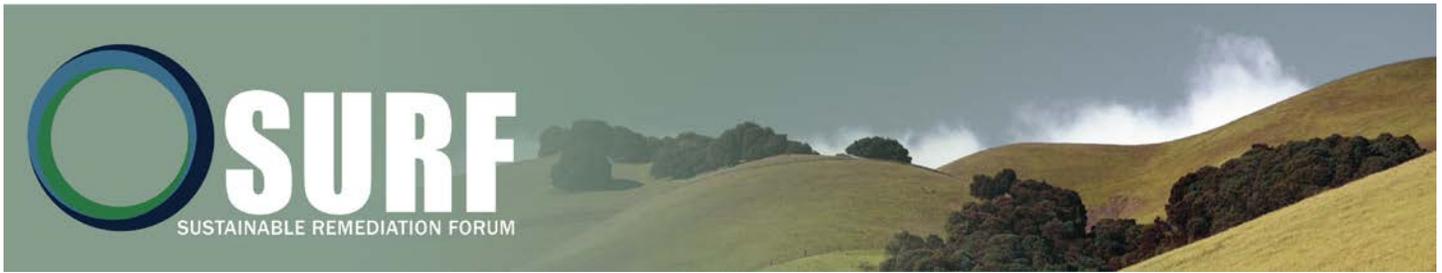
In keeping with the natural resource sub-theme, one example of a social indicator that can be considered is the percentage of communities participating in recycling programs. An economic indicator could be costs saved through reduced energy consumption at government buildings.

Lastly, additional sub-themes EPA should consider for the Sustainability Theme include:

- *Socio-economic cost of environmental metrics (e.g., social cost of carbon dioxide)*
- *Community's quality of life (e.g., access to green space and healthy choices)*
- *Economic vitality*

SURF appreciates the opportunity to comment on the ROE. In addition, SURF agrees with EPA's efforts to track sustainability indicators and is available for further support to help EPA develop indicators reflective of the triple bottom line.

Contributed by Melissa Harclerode



BATTELLE, continued from page 3

- Paul Bardos (University of Nottingham) prepared a proceedings paper that evaluated and compared various GSR documents.
- Amy Hawkins (U.S. Navy) described a paper in development that showcases the Navy's GSR metrics and implementation of Best Management Practices (BMPs) at cleanup sites.

SURF held an informal meet-and-greet event that was well attended and allowed SURF members from around the globe to share their progress:

- SURF Taiwan members recently developed a sustainability assessment document.
- SURF UK published a document on socio-economic analysis.
- SURF New Zealand will be certifying individuals as sustainability professionals/assessors.
- The final draft of the ISO standard on sustainable remediation will be completed in the next four to six weeks and will be available for review.

Contributed by Gerlinde Wolf

THANK YOU TO SURF'S 2014 SPONSORS!

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SURF 26 WEBINAR

On July 17, 2014, SURF members tuned in to SURF 26, a webinar that included presentations about the sustainable return on investment (sROI) methodology

DID YOU KNOW?

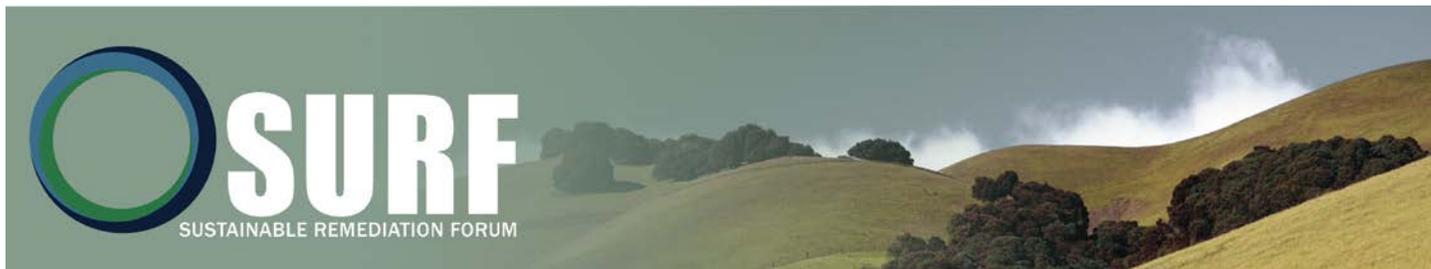
Next year, the International Conference on Remediation of Chlorinated and Recalcitrant Compounds will *not* include a track on GSR. Instead, the incorporation of green and sustainable practices in remediation will be discussed at The Third International Symposium on Bioremediation and Sustainable Environmental Technologies. The symposium will be held May 18–21, 2015, at the Hyatt Regency Miami Hotel in Florida. Abstracts are due September 30, 2014. For more information, visit <http://battelle.org/media/conferences/biosymp>.

and how the Department of Defense (DoD) is integrating sustainability into its acquisition programs.

Andrea Bohmholdt (URS) presented the sustainable return on investment (sROI) methodology, which is a nonproprietary methodology based on economic principles. The methodology is a quantitative approach that captures an expanded spectrum of values and criteria for measuring the triple bottom line impacts of a project in monetary terms. In addition, it includes an uncertainty analysis to demonstrate the likelihood of realizing costs and benefits.

Paul Yaroschak (DoD) and Craig Cammarata (Enviance) discussed a sustainability analysis tool that involves combining a streamlined life-cycle assessment (SLCA) and life-cycle costs (LCCs) to compare alternatives. Using the tool, resulting impacts are compared and then monetized in a way that is compatible with the DoD's cost structure. Use of the tool has shown that more informed decisions result, with more thought given to life-cycle implications.

SURF members can access SURF 26 webinar presentations at www.sustainableremediation.org under "Member Resources."



EVENTS AND CONFERENCES

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

Registration ends on September 3, 2014. Visit <http://www.sustrem2014.com/index.html> for more information or e-mail info@surfitaly.it.

30th Annual International Conference on Soils, Sediments, Water, and Energy – October 20-23, 2014 – Amherst, Massachusetts

This East Coast conference is hosted annually by the Association for Environmental Health and Sciences Foundation (AEHS). Each year, a wide variety of representatives from state and federal agencies; military; industries, including railroad, petroleum, transportation, and utilities; the environmental engineering and consulting community; and academia attend the conference.

Registration is open, and fees increase after September 30th. For more information or to register, visit <http://www.aehsfoundation.org/east-coast-conference.aspx>.

The Eighth International Conference on Remediation and Management of Contaminated Sediments – January 12-15, 2015 – Sheraton Hotel, New Orleans, Louisiana

This conference is designed for and presented by scientists, engineers, regulators, remediation site owners, constructors, and other environmental professionals with the goal of remediating, restoring, and maintaining the environmental and economic vitality of waterways. The program reflects the growing knowledge that better management of contaminated sediment systems is the key to success.

Early registration ends November 12, 2014. For more information, including program and registration materials, visit <http://www.battelle.org/media/battelle-conferences/sedimentscon>.

RemTECH Summit – March 2-5, 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. Super Early Bird Registration ends September 30, 2014. Visit <http://www.remtecsummit.com/> for more information, including program and registration materials.

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. For more information, visit <http://www.aehsfoundation.org/west-coast-conference.aspx>.

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:

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.