



UPCOMING MEETINGS:

SURF 20 – July 24-26, 2012
Colorado State University

SURF 21 – December 12-13, 2012
National Academy, Washington DC

Registration and Agenda for SURF 20 are available on the SURF website:
www.sustainableremediation.org

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SURF REPORT – SUMMER 2012

MESSAGE FROM SURF PRESIDENT, KARIN HOLLAND

The first half of 2012 has been a very busy period for SURF! Our technical initiatives are progressing steadily: for example a perspective paper considering the integration of sustainable remediation and redevelopment will soon be ready for publication while a new technical initiative on water re-use is being formed. Meanwhile, our communications and outreach committee are continuing to reach out to new members and to form relationships with other organizations. This committee ensured that SURF had great visibility at the Battelle conference in May, through our SURF booth as well as through a happy hour for sustainable remediation practitioners. In addition, the academic committee is furiously working with institutions and students leading to several new student chapters applying for SURF membership.

SURF 20 at Colorado State University is shaping up nicely. Like SURF 19, this meeting will be a three-day event. For the first time however, this SURF meeting is dedicating an entire day to students. Students will be providing presentations on a number of topics relating to sustainable remediation as well as being provided with an opportunity to network with their peers as well as SURF professionals. It is wonderful to see the enthusiasm generated among our future sustainable remediation leaders!

I look forward to seeing you in Colorado!

Karin Holland, SURF President

LinkedIn *Did you know that SURF is on LinkedIn?* 

LinkedIn members: Search for “sustainable remediation forum” in Groups to join SURF’s discussion group (www.linkedin.com). Look for the SURF logo!

Follow SURF on  **@SR_Forum**



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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. Suggestions for additions and improvements are welcome by using the Contact SURF form on the website or by emailing administrator@sustainableremediation.org.

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

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Next Meeting: SURF 20

SURF invites you to attend the 20th meeting of the SURF community! SURF 20 will be held at Colorado State University in Fort Collins, Colorado, July 24 to 26, 2012. The first day of the meeting will be devoted to Student Chapter activities, including posters and presentations highlighting the students' cutting edge research; a student panel discussion; and opportunities for professional networking. The theme for Day 1 will be *Developing Future Leaders in Sustainable Remediation*.

The second and third days of the meeting will provide a combination of presentations, panels and breakout sessions focusing on sustainable remediation. SURF 20 will be our first opportunity to discuss as a group two of the three SURF focus areas for 2012: water and working with other stakeholders (the third focus, Rating Systems, is currently a technical initiative and highlighted in this newsletter).

In recent years large-scale oil and gas development has seen a remarkable resurgence in Northern Colorado and other areas in North America. This resurgence has implications for remediation efforts, and presentations will discuss the environmental, economic, social, and political dimensions of oil and gas development. This topic is aligned with water, one of SURF's focus areas for 2012. Another of our focus areas is to expand partnerships with other organizations with similar missions to SURF. There might be opportunities for SURF to work with oil and gas development stakeholders to provide education on the sustainability issues surrounding this resurgence and associated remediation implications. *The Resurgence of Oil and Gas Development - Implications for Sustainable Remediation* will be discussed in several presentations.

Broader sustainable remediation topics will also be covered in presentations, discussions and breakout

sessions. Additionally, SURF 20 will feature a primer on beginning a technical initiative, and several brainstorming and organization sessions will be held to develop initiatives around the topics of water and stakeholders.

SURF 20 will close with a tour of the remediation activities at the Rocky Mountain Arsenal, a sustainable remediation case study in action. SURF attendees will proceed to RMA on their own (it's close to Denver International Airport) and convene for the tour at 4:00 pm on Thursday, July 26.

Meeting registration is now open on the SURF website (www.sustainableremediation.org). Additional information about the agenda and meeting logistics will be posted on the Meetings and Bulletin Board pages. If you are interested in volunteering with the meeting planning, email meetings@sustainableremediation.org.

Tweet along with SURF (@SR_Forum). Use #SURF20 to share the latest information!

Water Conservation and Re-Use Technical Initiative

SURF's Water Conservation and Re-Use Technical Initiative is under way. The Initiative is aimed at producing a document for increasing the sustainability of remedies by providing information on options for conserving and re-using groundwater associated with cleanups. The SURF members participating in the Initiative are compiling case studies as a key component of the effort, which will undoubtedly be of great interest to the eventual readership. SURF members who would like to know more about the Initiative can contact Paul Hadley (Paul.Hadley@dtsc.ca.gov) or Patrick Keddington (PKeddington@haleyaldrich.com), co-leads for the Initiative.



SR Rating System Technical Initiative

The Sustainable Remediation Rating System Technical Initiative Team is looking for additional team members. If you would like to join us, please contact Dick Raymond (draymond@terrasystems.net) or Diana Hasegan (dhasegan@langan.com).

The mission of the Sustainable Remediation Rating System Technical Initiative is to determine if an adequate business case exists for developing and applying a site rating and professional certification system for sustainable remediation, and, if so, develop and implement such a system.

The primary objective of this initiative is to gather and learn additional information about existing sustainability site ratings and professional certification systems. The outcome of this first phase will be a whitepaper discussing identified and applicable systems as well as making the business case for establishing and applying such a system applicable to sustainable remediation, if one is found. Contingent upon the first phase, the next step would be to develop a sustainable remediation site rating and professional certification system and upon the successful development implement the sustainable remediation site rating and professional certification system, first as a pilot program and then as a revised and improved full-fledged implementation.

Academic Outreach Initiative

The Academic Outreach Initiative (AOI) is pleased to announce a number of exciting new developments. A new SURF student chapter has recently formed and several more are on the horizon. Our latest addition to the ever-growing list of academic institutions that host SURF student chapters is the University of Illinois at Chicago (UIC) under the Academic Mentorship of

Professor Krishna Reddy. His research program includes recent advances in geo-environmental engineering toward sustainable waste management, pollution control, and remediation. The UIC student chapter will be a great addition to our existing student chapters, which now include Colorado State University, Syracuse University, Clarkson University, and the Colorado School of Mines. Stanford University and Rutgers University are in the early stages of becoming established and we look forward to further updates in the next newsletter.

The SURF Board of Trustees has recently approved the newest AOI technical initiative, the SURF Student Chapter Competition (SCC) proposed by Professor Michelle Crimi (Clarkson University and the Institute for a Sustainable Environment) and Scott McDonough (AECOM). The SCC is open to members of established student chapters. For the competition, students will design sustainable solutions to a remediation problem devised by a group of SURF remediation professionals. The designs will be judged by a panel of SURF judges with prizes awarded to one or more of the student chapters. Over the next several months, participants in the AOI will be researching and determining the details of the first SCC. Please contact Pamela Dugan (Pamela.Dugan@caruscorporation.com) or Mike Miller (MillerME@cdmsmith.com) if you would like to get involved in the effort.

SURF at Battelle Chlorinated Conference

SURF had a strong presence at Battelle's Eighth International Conference on Remediation of Chlorinated and Racalitrant Compounds, held May 21-24, 2012 in Monterey, California. SURF members represented our organization at the booth in the exhibit hall. Green and Sustainable Remediation was the featured topic for six technical sessions and a panel discussion. These, as well as several sessions and panels



in other technical tracks throughout the conference, were moderated or presented by SURF members. Thank you to all SURF members who represented our organization at the conference!

THANK YOU TO SURF'S SPONSORS!

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SUSTAINABLE REMEDIATION EVENTS AND CONFERENCES

National Brownfield Association – October 3-4, 2012

National Brownfield Association (NBA) will be hold its national conference entitled, “The Big Deal - Rebuilding your Brownfield Network” on October 3-4, 2012 at Jenner & Block Conference Center, 353 North Clark Street, Chicago, Illinois.

This is a content rich event that provides up to date information on real estate development and Brownfield redevelopment trends sessions include:

- New Life in Old Manufacturing Communities
- Funding Brownfield Redevelopment—Debt, Equity and Gap Financing
- Innovative Redevelopment Polices, Incentives and Legislation
- Buying Brownfields: What It Takes to Do the Deal!
- Renewable Energy on Brownfields

- Corporate Panel: Where Do All the Surplus Properties Go?

Conference information and registration are available at <http://brownfieldassociation.org/Events.aspx>.

Second International Symposium on Bioremediation and Sustainable Environmental Technologies – June 10-13, 2013

The Second International Bioremediation and Sustainable Environmental Technologies Symposium will be held June 10-13, 2013, at the Hyatt Regency Riverfront in Jacksonville, Florida. The Call for Abstracts brochure and information about sponsors, abstract submittal procedures, exhibits, and student paper and short course proposal due dates will be available at <http://conferences.battelle.org/bioremediation>.

Abstracts to be considered for the program will be due October 31, 2012.

The Bioremediation and Sustainable Environmental Technologies Symposium incorporates topics beyond those addressed by the In Situ and On-Site Bioremediation Symposium, held biennially from 1991 through 2009. The revised Symposium name and scope reflect bioremediation's maturity and new directions in environmental remediation research and application. Bioremediation continues to be a core area for the Symposium, but the scope also encompasses the use of biological technologies and strategies to assess risks to human and ecological health and support the development of sustainable practices.

The 2011 Symposium was attended by nearly 850 scientists, engineers, regulators, site managers, and other environmental professionals, representing universities, government agencies, consultants, and R&D and service firms from around the world. The 530



platform and poster presentations were given in 55 specialized sessions, and four panel discussions were conducted.

ITRC Internet Based Training

In November 2011, the Interstate Technology & Regulatory Council (ITRC) GSR Team published “Green and Sustainable Remediation: A Practical Framework,” which provides a generalized framework intended to be flexible and scalable to each phase of the remedial process. The GSR Framework covers both remedial planning and implementation. The guidance also provides tools to perform sustainability evaluations and case studies. Many SURF members have led and participated in the ITRC GSR Team that developed this guidance. ITRC offers online training in the use of the guidance document. Two training sessions remain in 2012 and will be held on July 19 and November 27. Information is available on the ITRC website at www.itrcweb.org.

COMPETITIONS, SCHOLARSHIPS, AND GRANTS

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).

OTHER NEWS AND ANNOUNCEMENTS

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@integralcorp.com) to learn more about this opportunity. Note that SURF waives meeting registration fees for all invited presenters.

NICOLE Sustainable Remediation Work Group 2012 Report

In 2008, the Network for Industrially Contaminated Land in Europe (NICOLE) launched a working group (Sustainable Remediation Working Group – SRWG) to assess the application of sustainable principles in remediation projects and to investigate how these principles could be developed and promoted. In September 2010, NICOLE’s SRWG published a Road Map to Sustainable Remediation (SR). The SRWG has now published supporting information that provides the background context and the technical details for the roadmap.

Together with the road map, this series of four interrelated documents are provided to the professional community with the objective to assist any stakeholder involved in a contaminated land management project, of any size, in the implementation of sustainability into their project.



The **Road Map for Sustainable Remediation** is a concise four-page document that introduces NICOLE's vision of SR and the necessary steps and principles to implement a successful, sustainable remediation project. This was finalized and published in September 2010.

The document **Integrating Risk Assessment and Sustainable Remediation** focuses primarily on the challenges of integrating sustainability into a risk-based approach and presents NICOLE's position on this topic.

The document **Economics and Tools** reviews the economic aspects associated with SR and provides an overview of tools available on the market to assist with such analysis, as of December 2010.

The **Sustainable Remediation Indicators** document provides guidance on how to measure the Sustainability of a SR project, and on the indicators that are currently being considered as of May 2011.

The full report is downloadable from the NICOLE library, (www.nicole.org/documents/DocumentList.aspx?l=7&w=n)

In 2012, the SRWG activity focuses on testing the Road Map on a number of projects with a plan to report back to the wider community of practitioners. For this purpose, NICOLE is currently collecting and compiling case studies with the objectives of building a data base of demonstration projects, and of validating the robustness of the sustainable remediation approach in contaminated land management.

For more information contact the NICOLE SRWG via Lucy.Wiltshire@honeywell.com, Olivier.Maurer@CH2mhill.com, or Sarah.MacKay@wspgroup.com.

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 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.