



UPCOMING MEETINGS:

SURF 19 - January 31-February 2, 2012
University of California, San Diego

Registration and Agenda are now
available 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 – FALL 2011

A MESSAGE FROM SURF PRESIDENT, PAUL FAVARA

We can all take pride in SURF's contribution to the practice of sustainable remediation. Our organization and membership have tremendous impact on the scope and direction of sustainable remediation in our industry. We accomplish this through a variety of committees and the great commitment and support from our volunteer workforce.

Our Communications/Outreach and Meeting/Programs Committees develop meeting agendas that provide important content for sharing and invite guests that can foster stimulating discussion that help us explore where sustainable remediation can go. For example, our past two meetings were well attended by regulators and created an important information exchange between regulators, site owners and service providers. The discussions are open and constructive and I cannot think of any other venues in our industry that provide such an open exchange of ideas between the regulator and the regulated community.

Our Technical Initiatives Committee provides ideas that are provocative and constructive to the development and growth of the sustainable remediation practice. Our next three technical initiatives focus on integrating sustainable remediation concepts into site redevelopment projects; developing a web resource that can provide one-stop viewing and referencing of all things important to sustainable remediation practitioners; and evaluating the potential relevance and value of certification for site cleanups that integrate meaningful sustainable remediation attributes into the overall cleanup. There are several groups that provide perspectives on sustainable remediation, but I like that SURF pushes the boundaries of thought leadership in our effort to provide research and education for our industry.

Our Membership Committee continues to help our organization grow and is making important inroads into academia where we have a focus

(Continued on Page 2)

A MESSAGE FROM SURF PRESIDENT (Continued from Page 1)

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!

on increasing the number of SURF student chapters. We also have more members in SURF now than we ever have and we will continue to grow our numbers. Our Finance Committee does a great job of managing all finances, files and important information for taxes, and has worked hard to make payments by credit card much easier.

All the above committees help us to be a sustainable and thriving organization. It's really amazing we do this with an all-volunteer workforce and there are plenty of places for all members who want to contribute.

If you would like to become more involved in SURF activities, I encourage you to reach out to any of the committees you may have an interest in and contact the committee chair to see what you can do to help. Whether you have only a few hours a year, or can volunteer a greater amount of time, your contribution will help us make a difference.

Paul Favara, SURF President

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



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!



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.

IN THIS ISSUE:

- SURF 18 Summary and SURF 19 Announcement
- Technical Initiative Updates
- Introduction to SURF Canada
- Sustainable Remediation Events and Conferences

SURF ZONE – SURF 18 in SEATTLE, WA

The 18th SURF Meeting was held September 21-22, 2011 in Seattle, Washington. The meeting featured an opening discussion on *“Sustainable Remediation Opportunities and Challenges in the Urban Environment”* by John Ryan of AECOM. A Panel Discussion addressed the question, *“How are your organizations integrating sustainability into site cleanups?”* Nick Garson, a SURF member and Boeing Remediation Project Manager, moderated the discussion, which featured the following panelists:

- Steven Shestag, Boeing;
- Jim Pendowski, Ecology;

- Dan Opalinski, US EPA;
- Stephanie Jones Stebbins, Port of Seattle;
- Tanwir Chaudhry, US Navy; and
- Carol Dona, US Army Corps of Engineers.

Other presentations at the meeting included:

- “Unique Challenges of Sustainable Cleanups in the Northwest,” Dave Schuchardt, City of Seattle and Sean Sehldrake, EPA Region 10;
- “Integrating Social Aspects in Sustainable Remediation,” Pat Serie, EnviroIssues and Renee Dagseth, EPA Region 10;
- “Economic Considerations,” Dave White, King County and John Means, Ecology; and
- “Walking the Talk: SURF’s Nine-Step LCA Process Tested,” Todd Krieger, DuPont.

SURF members have access to all meeting proceedings via the Member Resources section of the SURF website.

Following the formal meeting program, several SURF members had the opportunity to participate in a field trip to Boeing’s Everett factory in Mukilteo, Washington. The facility is home to the 747, 767, 777, and 787 Dreamliner production lines.



SURF Members tour Boeing’s Everett factory in Mukilteo, WA



NEXT SURF MEETING

Registration is Now Open!

SURF invites you to attend the 19th meeting of the SURF community! SURF 19 will be held at the University of California San Diego campus from January 31 to February 2, 2012.

The meeting theme, “Share the Vision Towards a Sustainable Future,” alludes to the broad range of viewpoints and approaches that SURF and its partnering organizations have planned for this three-day meeting, including compelling discussions and presentations about the rapidly-developing field of sustainable remediation and its emerging relationship with sustainable redevelopment.

Participants are encouraged to register early, as 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 the meeting. Keep an eye on the SURF website for information about future meetings.

SURF TECHNICAL INITIATIVE UPDATES

Integration of Sustainable Remediation and Sustainable Redevelopment

At SURF 18 in September, SURF members Stella Karnis and Karin Holland presented an outline of the fact sheet on “*The Integration of Sustainable Remediation and Sustainable Redevelopment.*” The fact sheet will include several topics relating to this technical initiative, including:

- The current disconnect between sustainable remediation and sustainable redevelopment;

- Synergies between different sustainable remediation and sustainable redevelopment programs and organizations;
- The benefits of developing on brownfield sites versus greenfield sites;
- How can sustainable remediation and sustainable redevelopment be more integrated?; and
- Present examples/case studies from the military perspective and industry perspective.

The technical initiatives team obtained constructive feedback at SURF 18 and in subsequent discussions, and will be looking to incorporate the suggestions into the fact sheet. The technical initiatives team will request other professionals outside the remediation field, such as developers, to review the document for completeness. The fact sheet will be completed by and presented at SURF 19. Based on the interest in the fact sheet, a more comprehensive white paper may be developed.

SuRF CANADA

SuRF Canada was initiated in December 2010 and now has close to 60 members from industry, consulting, provincial and federal agencies, and academia across Canada. The objective of SuRF Canada is to establish a Canadian network group to promote sustainable remediation that aims to give systematic consideration to the three dimensions of sustainability (social, economic and environmental) in decision-making about remediation of and management of contaminated sites. The network will bring together public and private organizations and launch an information and awareness initiative across Canada. SuRF Canada has four active sub-committees, including Outreach, Conference Planning, Technical Initiatives, and Website Development.



The group has met three times this year, with the most recent SuRF meeting held before the Remtech conference in Banff, Alberta on October 19. SuRF Canada also had booth at this conference in order to attract more participants from the western provinces. The group is looking to structure itself more formally and launched a new logo at the SuRF meeting in Alberta. Finally, the group is working on a paper focusing on sustainable remediation in the Canadian context. For more information please visit the website (still under construction) at www.surfcanada.org.

CIMAS II, SAO PAULO, BRAZIL

On October 4, 2011, SURF founder and past president Dave Ellis, DuPont, and SURF member and AECOM Sustainable Remediation practice lead, John Ryan, led a short course at the Second International Conference on Subsurface Environment (CIMAS II) in Sao Paulo, Brazil. The workshop, titled "Integrating Sustainable Principles, Metrics, and Practices into Remediation Projects," included an overview of government and trade group policies and guidance, including:

- Overview of GSR - What is it, How is it being considered in different countries
- Framework for integrating sustainability into remediation
- Metrics and tools – What should be measured, how are they used in decision making, what are tools for calculating relevant metrics?
- Best Practices and Technologies – What are examples of approaches that can be used?

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
2. Demonstrating Value of GSR: Making Decisions that Reduce Footprint
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 and Economic Aspects into GSR

2012 Environmental Monitoring and Data Quality Workshop – March 26-29, 2012

The Department of Defense (DoD) Environmental Data Quality Workgroup is pleased to announce the 9th annual DoD Environmental Monitoring & Data Quality (EMDQ) Workshop, which includes technical training sessions, technical presentations, a plenary session featuring distinguished speakers, a Q&A forum, component meetings, a poster session / meet & greet, an update on the DoD ELAP, and networking opportunities with members of the environmental community. This workshop is open to all interested environmental professionals involved with DoD sites or projects including representatives from the DoD services, other federal agencies, state, local, and tribal governments, academia, and the private sector.

The workshop takes place March 26 through March 29, 2012, at the Hyatt Regency La Jolla, in La Jolla, California. More information is available on the workshop website.

COMPETITIONS, SCHOLARSHIPS, AND GRANTS

Student Paper Competition at the 2012 Battelle Conference, May 21-24, 2012

Student papers may be submitted on any topic relevant to the overall technical scope of the Conference. Winners of student paper competitions at past Battelle conferences are not eligible. The primary author must (a) be a fulltime student at the time the paper is submitted and (b) give the corresponding poster or platform presentation at the Conference. The primary author of each winning paper will receive:

- Complimentary Conference registration
- A \$1500 award to assist with travel costs
- Placement in the Conference program as a poster or platform presentation (if not already placed as a result of having submitted an abstract in response to the Call for Abstracts)
- Award of commemorative plaque during the Plenary Session
- Opportunity to include the paper in the Conference proceedings

Student papers are to be submitted online and are due November 30, 2011. Visit the conference website for more information.

Student Poster Presentation – SURF 19 – January 31-February 2, 2012

Students are invited to present a poster during the evening reception on January 31, 2011. The theme of the poster session is *“What is the intersection between your field of academic interest and sustainable remediation?”*

Prizes will be provided to the most inspiring and thought-provoking posters. Prizes will be in line with and supportive of students’ academic pursuits.

For additional information, visit the SURF website and register online, or please contact SURF’s Academic Outreach Initiative Chairs, Pamela Dugan (Pamela.Dugan@caruscorporation.com) or Mike Miller (MillerME@cdm.com).

Document Your Environment: Student Multimedia Contest sponsored by the National Archives

In the 1970s, the EPA hired freelance photographers to capture environmental issues and challenges in the United States. Forty years later, the National Archives is inviting students ages 13 and up to seek inspiration



from one of these photos and start creating the next generation of Documerica records. The original Documerica photos can now be found at the National Archives, which has digitized more than 15,000 of these photos, many of which are available on Flickr and in our online catalog. Today, the National Archives and the EPA have continued this spirit of capturing the environment and life through their recent project, State of the Environment.

Learn more at the contest website.

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

Methodology for Understanding and Reducing a Project's Environmental Footprint was released by the

EPA for public comment on September 16. Practitioners are invited to use the methodology and submit any input to the EPA Office of Superfund Remediation and Technology Innovation by November 16, 2011. To view the document and provide input, visit www.epa.gov/superfund/greenremediation/.

The National Research Council Committee on Incorporating Sustainability in the U.S. Environmental Protection Agency recently published *Sustainability and the U.S. EPA* (2011). This report presents a framework for incorporating sustainability into EPA's regulatory responsibilities, including risk assessment/risk management and the use of scientific and analytical tools. The document is available for free PDF download at The National Academies Press.

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.

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.

Share the Vision Towards a Sustainable Future
Sustainability Symposium
January 31st to February 2nd 2012
University of California San Diego (UCSD)

Bringing together a broad range of viewpoints, approaches and topics, the Sustainable Remediation Forum (SURF, www.sustainableremediation.org) and partnering organizations invite you to partake in compelling discussions and presentations about the fast developing field of sustainable remediation and its emerging relationship with sustainable redevelopment.

Proposed Agenda:

- **Day 1 (January 31)** – Broad-ranging sustainability symposium coordinated by SURF and with participation from regional and national organizations
- **Day 2-3 (February 1-2)** – SURF’s annual meeting; case studies and further exploration of the themes and discussions of Day 1; all participants welcome

Presentations and Panel Discussions:

- Keynote speaker Scott Peters, Chairman of the Board of Port Commissioners, Port of San Diego
- Overview of the state of sustainable remediation
- What does sustainable remediation mean to the different participating organizations (including industry, government, academic and regulatory representatives)?
- Relationship between sustainable remediation and sustainable redevelopment
- Can remediation and redevelopment practitioners work more closely together?
- How can different professional organizations achieve a common vision for sustainability?
- Examples of sustainable remediation performed collaboratively by industry, regulatory agency representatives and other stakeholders
- Student sustainable remediation poster session

Registration fees:

- Full Conference (all 3 days) - \$150
- Day 1 only - \$75
- Students - \$25 (free for students presenting a poster)

Registration is now open on the SURF website: www.sustainableremediation.org/registration

Partnering organizations:



SAN DIEGO CHAPTER
www.usgbc-sd.org

Participating organizations (to date): Port of San Diego; San Diego County Regional Airport Authority; Air Force Center of Engineering and the Environment; Environmental Protection Agency Region 9; City of Chula Vista Redevelopment Agency; The Boeing Company; DuPont; Vulcan Materials Co., Western Division; Pacific Gas and Electric Company; BP; Shell Global Solutions; UCSD's Sustainable Solutions Institute; California Institute for Telecommunications and Information Technology; Scripps Institution of Oceanography; University of Nottingham, United Kingdom; United States Green Building Council; American Society of Landscape Architects; Institute for Sustainable Infrastructure; Center for Public Environmental Oversight; Atlantis Group LLC; Haley & Aldrich, Inc.; Opper & Varco LLP; Hunton & Williams, LLP; Procopio, Cory, Hargreaves & Savitch LLP; Terra Systems, Inc.; Geosyntec Consultants; AECOM; SCS Engineers; Langan; CH2MHill; Northgate Environmental Management.

Sponsors:



engineers | scientists | innovators



For additional information, please visit www.sustainableremediation.org or contact karin.holland@sustainableremediation.org.