

New Advisory Board Members

There are two new additions to the ITRC Advisory Board for 2004. Mavis Kent (OR) will be replacing Paul Hadley (CA) on the board as the State Engagement Coordinator. Mavis has been a member of ITRC and point of contact (POC) for Oregon for two years. Mavis sees ITRC as a unique group in that it is able to develop products and resources that others, especially state regulators, can use. She also appreciates having the opportunity to network with other states in ITRC and to make a contribution to the environmental community. One of Mavis' goals for the State Engagement Team is to make the decision-making process more efficient for ITRC products. Mavis is the mother of three boys, and she and her husband are very active volunteers for the Boy Scouts.

Paul Hadley is stepping down after finishing his term of four years as State Engagement Coordinator. Thank you, Paul, for your years of leadership and service. We look forward to your continued work with ITRC as California's POC to ITRC.

(See *New Advisory*, page 2)

2004 Spring Membership Meeting



ITRC's Spring Membership Meeting will be held March 22-24 at the

Hilton Airport Hotel in Atlanta, Georgia. You can register for the meeting on the ITRC Web site at www.itrcweb.org. Also, don't forget to reserve a hotel room! The spring meeting is one of the first opportunities for the teams to meet, set goals for 2004, and work on their projects. A new member orientation session will be held on Monday, March 22, from 10:00 a.m. to noon to provide an overview of ITRC. Other meeting activities include an opening plenary session with several interesting speakers and team meetings. Back by popular demand, there will be a town hall meeting after the opening plenary session on Monday.

Members: Make your reservations now! See you in Atlanta!

New POCs

Dan Nicoski is replacing Rob Weber as the POC for Kansas. Named an Outstanding POC in 2003, Rob is leaving the State Engagement Team as part of a regular rotation for the state of Kansas. Thank you, Rob, for all of your service to ITRC.

Mike Verchick is replacing Sara Arav-Piper as the POC for Nevada. Sara has accepted new responsibilities as colead of ITRC's new Perchlorate Team. Sara, thank you for serving as POC for Nevada; we look forward to your continued leadership.

If you would like more information on ITRC State Engagement activities, please refer to the ITRC Web site at www.itrcweb.org or contact Mavis Kent, ITRC State Engagement Coordinator, kent.mavis.d@deq.state.or.us, (503)-229-5071 or ITRC Program Advisors, Mary Yelken, myelken@earthlink.net, (402) 325-9615 or Gary Garrett, garrett@sseb.org, (770) 242-7712. Your POC is your ITRC resource in your state. POC contact information is available at www.itrcweb.org by clicking on "Contacts."

Quarterly Update

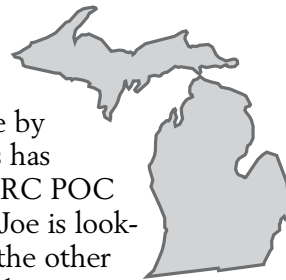
March 2004



INTERSTATE TECHNOLOGY & REGULATORY COUNCIL

Another State Joins ITRC

Michigan is the 42nd state to join ITRC. Michigan joined ITRC to gain new partnerships, receive help with training staff, and become more fiscally responsible by using ITRC products. Joe Rogers has been appointed as Michigan's ITRC POC on the State Engagement Team. Joe is looking forward to networking with the other states and getting the word out about ITRC to others in Michigan. State participation is key to expanding the "reach" of ITRC documents and training courses. The State Engagement Team uses its network of POCs to gain state concurrence on ITRC guidance documents, help technical teams develop training courses, and transform the regulatory process.



New Focus

Beginning with this issue of the *Quarterly Update*, the newsletter will offer more information about the people who make ITRC work. As always, the newsletter will provide news and updates of ITRC activities as well as highlights of the trainings and products ITRC teams are producing. Please send ideas for information to include in future *Quarterly Updates* to Elaine Specht at Elaine_Specht@wpi.org.

2004 Teams

Alternative Landfill Covers (ALT)
Team Leader: Charles Johnson, CO

Arsenic in Groundwater
Team Leader: Manny Patel, NJ

Bioremediation of DNAPLs
Team Leader: Naji Akladiss, ME

Brownfields
Team Leader: Christine Costopoulos, NY

Contaminated Sediments
Team Coleaders: Rich DeWan, NJ
and Brad Helland, WA

Diffusion Sampler
Team Leader: George Nicholas, NJ
(temporary)

DNAPLs
Team Leader: Eric Hausamann, NY

Ecological Enhancements
Team Leader: Charles Johnson, CO

In Situ Chemical Oxidation
Team Coleaders: Pat Quinn, MO
(searching for another team coleader)

Mitigation Wetlands
Team Coleaders: Paul Eger, MN
and Dib Goswami, WA

MTBE and Other Fuel Oxygenates
Team Leader: Fred McGarry, NH

**Natural Attenuation and
Passive Bioremediation**
Team Coleaders: Judie Kean, FL
and Kimberly Wilson, SC

Perchlorate
Team Coleaders: Sara Arav-Piper, NV
and Mark Malinowski, CA

Permeable Reactive Barriers
Team Leader: Matt Turner, NJ

Radionuclides
Team Coleaders: Tom Schneider, OH
and Carl Spreng, CO

Remediation Process Optimization
Team Leader: Tom O'Neill, NJ

Risk Assessment Resources
Team Leader: Steve DiZio, CA

**Sampling, Characterization
and Monitoring (SCM)**
Team Leader: Stuart Nagourney, NJ

Small Arms Firing Range (SMART)
Team Coleaders: Dib Goswami, WA
and Mark Begley, MA

Unexploded Ordinance (UXO)
Team Coleaders: Jeff Swanson, CO
and Jennifer Roberts, AK

Vapor Intrusion (Indoor Air)
Team Coleaders: Bill Morris, KS
and John Boyer, NJ

Need for Stakeholder Members

ITRC provides a unique forum for regulators, environmental professionals, and public stakeholders to come together to streamline solutions for the environment. There is currently a need for stakeholder participation on several ITRC teams. If you know of someone who would be interested in participating on a team, please contact Wade Waters, ITRC Advisory Board member at (912) 748-7909 or wwaters258@aol.com.

2003 a Productive Year

2003 was another highly productive year for ITRC. Due to many volunteer hours, nine new documents are available to the environmental community. The ALT and DNAPLs Teams each added two new documents to the ITRC library. The Brownfields, SCM, SMART, and Wetlands Teams all published their first documents in 2003. The UXO Team produced its second document during 2003.

Several classroom courses and many Internet-based training sessions were also conducted. Teams that provided new Internet-based

training courses included DNAPLs, Radionuclides, and Small Arms Firing Range. A new classroom training course was offered by the MTBE Team. More than 470 people from 45 states attended classroom training courses. Internet-based training courses had 1,690 participants from all 50 states, DC, and 25 foreign countries.

ITRC thanks everyone who helped contribute to the new documents and all of the classroom and Internet-based trainings in 2003. Without our members, none of these activities would be possible.

UXO Team Offers Training

The UXO Team will offer the UXO Basic Training classroom course in conjunction with the UXO/Countermine Forum in St. Louis on March 8. The course will be taught by Tracie M. White from Shaw Environmental, Inc. and Jim Pastorick from Geophex UXO, Ltd. This is the 10th Anniversary of the UXO/Countermine Forum, where nearly 1,000 researchers, developers, policy makers, program planners, and deliverers will showcase cutting-edge UXO and countermine technologies, ideas, programs, and partnerships. For more information about the ITRC UXO Basic Training course and the Forum go to www.theforum2004.com and click on "Special Conference Events."

New Advisory from page 1

George Nicholas (NJ) will be replacing Bart Faris (NM) as the Team Lead Liaison on the Advisory Board. George has been a member of ITRC since 1999 and has been the team leader of the Diffusion Sampler for his entire membership. One element of ITRC that George appreciates is the people because of their knowledge and expertise and their willingness to share expertise with others. One of the tasks George will be working on as Team

Leader Liaison is enhancing coordination between POCs and team leaders and the entire membership. George is the father of three boys and a girl. George is also a nine-year veteran of firefighting. In his spare time George likes to sail, ski, surf, and hike.

ITRC thanks Bart Faris (NM) for his work on ITRC. We appreciate his leadership and wish him well on future endeavors.

A record number of 16 states are providing team leadership on 21 ITRC teams funded in 2004, a strong indication of states' taking interest in and providing leadership to ITRC. New and returning team leads met January 20–22 in Denver for the annual kickoff meeting. This meeting provides an opportunity for team leads to share their experience in managing their teams and developing team products and to pass lessons learned on to new team leads. During the meeting, team leads and program advisors worked together to complete the 2004 work plans.

New team leads for 2004:

- Manny Patel (NJ), Arsenic in Groundwater
- Naji Akladiss (ME), Bioremediation of DNAPLs
- Brad Helland (WA), Contaminated Sediments (colead)
- Bill Morris (KS) and John Boyer (NJ), Vapor Intrusion (Indoor Air)
- Paul Eger (MN), Mitigation Wetlands (colead)
- Judie Kean (FL) and Kimberly Wilson (SC), Natural Attenuation and Passive Bioremediation
- Sara Arav-Piper (NV) and Mark Malinowski (CA), Perchlorate
- Mark Begley (MA), Small Arms Firing Range (colead)

See page 2 for a complete listing of all the teams and team leads. We welcome the new and returning team leads, and we appreciate the time and energy they spend on ITRC. 2004 is shaping up to be another exciting year, and the environmental community will benefit from the guidance, training, and other tools created by our teams.



Radionuclides Team Coleaders Tom Schneider (OH) and Carl Spreng (CO), and Program Advisor Smita Siddhanti

George Nicholas (NJ)
Team Leader Liaison



TEAM LEAD Kickoff!

MTBE Team Leader Fred McGarry (NH) and ITRC Program Assistant Carolyn Hanson



Arsenic in Groundwater Team Leader Manny Patel (NJ) and MTBE Team Member Joe Haas (NY)

Denise Calore, ITRC Program Administrator Tim Titus, and George Nicholas



Vapor Intrusion Team Coleaders Bill Morris (KS) and John Boyer (NJ)



Hot off the Press!

The last quarter of 2003 was a very busy and productive one for ITRC as five teams published documents. Here is a brief look at the documents and some of the people who helped publish them:

Munitions Response

Historical Records Review (UXO-2)

This document is a guide for regulators, stakeholders, and others involved in oversight or review of munitions response historical records review projects on munitions response sites. This document is available not only in printed form, but also on a CD.

A special thank you to all members of the UXO Team in completing this important document, the team's second. In particular, ITRC thanks UXO Team Colead Jeff Swanson and Committee Chair Nicole Sotak.

Technical and Regulatory Guidance for Design Document for Constructed Treatment Wetlands (WTLND-1)

This document is a guide to help regulators, consultants, and stakeholders make informed decisions about the use of constructed treatment wetland systems for remediating a variety of waste streams, including acid mine water, remedial wastewaters, and agriculture waste streams.

ITRC appreciates and recognizes the efforts of all members of the Wetlands Team in completing this important document, the Wetlands Team's first. In particular, ITRC thanks Wetlands Team Coleaders Bob Mueller of the New Jersey Department of Environmental Protection and Dib Goswami of the Washington Department of Ecology.

Technical and Regulatory Guidance for Design, Installation, and Monitoring of Alternative Final Landfill Covers (ALT-2)

This document focuses on the decisions and facilitating the decision processes related to design, evaluation, construction, and post-closure care associated with alternative final landfill covers.

ITRC appreciates and recognizes the efforts of all members of the ALT Team in completing this, the team's second document completed in 2003. In particular, ITRC thanks Team Lead Charles Johnson of the Colorado Department of Public Health and Environment.



Technical and Regulatory Guidance for the Triad Approach: A New Paradigm for Environmental Project Management (SCM-1)

This document introduces the Triad approach to conducting environmental work, which increases effectiveness and quality and reduces project costs.

ITRC appreciates and recognizes the efforts of all members of the SCM Team in completing their first document. In particular, ITRC thanks Team Lead Stuart Nagourney of the New Jersey Department of Environmental Protection and Triad Subteam Lead Kimberlee Foster of the Missouri Department of Natural Resources

Vapor Intrusion Issues at Brownfield Sites (BRNFLD-1)

This document provides an overview of vapor intrusion, contaminant types with vapor intrusion potential, brownfield sites' potential to have indoor air exposure from vapor intrusion, and steps that can be taken to limit exposures.

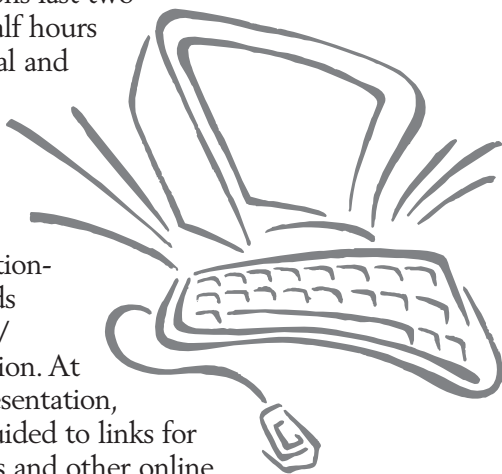
A special thank you to the Brownfields Team in completing this important document. In particular, ITRC thanks Brownfields Team Lead Christine Costopoulos of the New York Department of Environmental Conservation and Ken Gilland of RTI International, who led the subteam that developed this document.

If you would like to receive a copy of any of these documents, contact Elaine Specht at Elaine_Specht@wpi.org, (540) 557-6071, or download a copy from the ITRC Web site at www.itrcweb.org

2004 ITRC Internet-Based Training Program

ITRC develops and delivers training courses via the Internet to reach a geographically dispersed audience of regulators, consultants, and other members of the environmental community. These courses create a unique forum for the exchange of technical and regulatory information because they are based on ITRC guidance documents, which reflect the consensus opinion of ITRC members from states and federal environmental agencies, the private sector, and citizen stakeholders.

The training sessions last two to two and one-half hours and cover technical and regulatory information specific to environmental technologies and innovative approaches. Question-and-answer periods enable participant/instructor interaction. At the end of the presentation, participants are guided to links for related documents and other online resources. Registration for the courses typically opens 4–6 weeks prior to each course offering. The courses are hosted on USEPA Technology Innovation Program's servers at <http://clu-in.org>. Registrants are provided with all information needed to participate.



Upcoming course dates:

March 18th—Munitions Response Historical Record Review (MRHRR)

11:00 a.m. to 1:15 p.m. EASTERN Time

March 30th—Constructed Treatment Wetlands

2:00 p.m. to 4:15 p.m. EASTERN Time

April 13th—In Situ Chemical Oxidation

2:00 p.m. to 4:15 p.m. EASTERN Time

April 15th—Characterization and Remediation of Soils at Closed Small Arms Firing Ranges

11:00 a.m. to 1:15 p.m. EASTERN Time

April 22nd—Advanced Techniques on Installation of Iron Based Permeable Reactive Barriers and Non-Iron Based Barrier Treatment Material

11:00 a.m. to 1:15 p.m. EASTERN Time

May 4th—Radiation Risk Assessment: Updates and Tools

2:00 p.m. to 4:15 p.m. EASTERN Time

May 11th—Systematic Approach to In Situ Bioremediation in Groundwater: Nitrates, Carbon Tetrachloride and Perchlorate

2:00 p.m. to 4:15 p.m. EASTERN Time

May 13th—Design, Installation and Monitoring of Alternative Final Landfill Covers

11:00 a.m. to 1:00 p.m. EASTERN Time

Note: All dates/times are subject to change

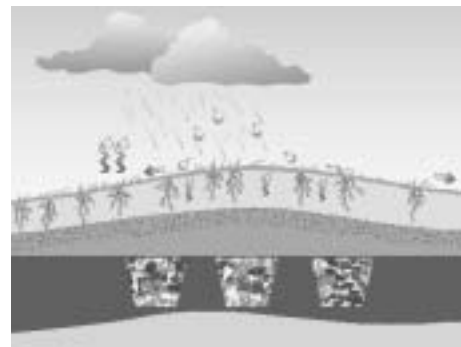
Additional course topics planned for course offerings in 2004:

- DNAPLs: Performance Assessment
- Phytotechnologies
- Remediation Process Optimization
- Surfactant/Cosolvent Flushing of DNAPL Source Zones
- Triad Approach: A New Paradigm for Environmental Project Management

Most courses will be offered more than once during the year. Please check for course details and registration information at www.itrcweb.org. The contact for ITRC Internet-based training courses is Mary Yelken, (402) 325-9615, myelken@earthlink.net.

ALT Team Receives Grant

The Alternative Landfill Technologies Team has received a \$60,000 grant from the Environmental Research Education Foundation (EREF). This foundation is an independent public grant-making entity that promotes environmental solutions for the future. EREF supports education initiatives to increase public understanding of waste services as well as scientific discoveries and applied research to advance state-of-the-art waste services. The ALT Team will be developing technical and regulatory guidance on the methods states should use to oversee design, construction, monitoring, and post-closure care of alternative final covers at landfills, including the use of alternative cap designs at bioreactor landfills.



Highlight of a Team Leader

In each issue of the *Quarterly Update*, there will be a highlight of a Team Leader. This quarter, Stu Nagourney is in the spotlight.

Stu has been a part of ITRC officially for three years and has been the team leader for the Sampling, Characterization and Monitoring Team during his entire membership. The SCM Team has just published its first document and is starting to work on a training course. For more information about the document please refer to page 4. Also in 2004, the team will start work on a second document focusing direct-push wells as well as turning attention to direct sensor technology and how to deal with the data and interpret the results from the sensors.

For Stu, ITRC is a unique organization that promotes the implementation of new technologies. According to Stu, one of the most satisfying aspects of being a member of ITRC is working with people from other states, disciplines, and organizations both private and federal who come together and work collectively. Another satisfying aspect of ITRC is that teams have control over the focus and quality of their products. Stu says it is great to work with a group of motivated, intelligent volunteers who donate their time and energy toward a common goal.

When Stu is not working on ITRC projects, he is a research scientist for the New Jersey Department of Environmental Protection, Office of Quality Assurance. He is also the father of two girls. The older graduated from Indiana State University in December 2001 and is currently working for Teach America. The younger is working on a premed degree in psychiatry at Ursinus College.

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