DAY 1

Tuesday, June 15

8:00-12:00 Plenary Session	**Welcome and Opening Remarks – Sam Coleman, EPA Region 6** **Moderator:** Walt Kovalick, USEPA Mike Cook, Director, Office of Superfund Remediation Technology Innovation (OSRTI) Christopher J. Daggett, International Risk Group Albert Lowas - Air Force Real Property Agency Richard Mach, Naval Facilities Engineering Command John McLeod and Mark Lyverse, ChevronTexaco Dr. Barbara Minsker, University of Illinois		**Poster Display Open**
PM Sessions	**TRACK A** **Optimization Programs – Problems, Successes, and Lessons Learned**	**TRACK B** **Long Term Monitoring Optimization**	
1:30 - 2:00	***Lessons Learned from EPA-Sponsored Optimization Reviews Nationwide*** **Jennifer Griesert**, OSRTI	***Optimizing Long Term Monitoring at a British Petroleum Site Using Multi-Objective Optimization Software*** **Dr. Barbara Minsker**, University of Illinois	
2:00-2:30	***NJDEP Involvement in the Optimization Process*** **Tom O'Neill**, NJDEP	***Basewide Groundwater Monitoring Program Optimization and Data Visualization at Vandenberg Air Force Base*** **Sally Liu**, Tetra Tech, Inc.	
2:30-3:00	***The Air Force and Remedial Process Optimization (RPO)*** **John Gillespie**, AFCEE	***Optimization of a Long-Term Monitoring Program at an Arizona Superfund Site*** **Catherine Schladweiler**, Malcolm Pirnie, Inc.	
3:00-3:30	**BREAK**		
3:30-4:00	***Optimization of Remedial Actions at Navy Installation Restoration Sites*** **Karla Harre**, NFESC	***Demonstration of Two Long-Term Groundwater Monitoring Optimization Methods*** **Kathy Yager**, US EPA Office of Superfund Remediation & Technology Innovation	
4:00-4:30	***Air Force Real Property Agency (AFRPA) Remedial Process Optimization Experiences and Lessons Learned*** **Rod Whitten**, AFRPA and **Jon Horin**, Mitretek	***A Case Study on Well Location Optimization with MAROS Software for Remediation Investigation*** **Dr. Ke Liu**, Shaw Environmental & Infrastructure, Inc.	
4:30-5:00	***SmartSite™ Optimization Program – Experience and Lessons Learned*** **Dr. Richard Cronce**, SAIC	***Optimizing LTM Networks with GTS: Three New Case Studies*** **Dr. Kirk Cameron**, MacStat Consulting, Ltd.	
5:00-5:30	***U.S. Department of Energy Optimization Research and Remedial Process Reviews*** **Beth Moore**, U.S. Department of Energy		**5:00 PM - 7:00 PM** **Poster Presentations** **Cash bar available.**
Evening Workshops 6:30 PM-9:00 PM	***A Workshop on Applying Optimization Algorithms and Contaminant Transport Models to Reduce Costs and Speed Remediation at Pump and Treat Sites*** **Dr. Barbara Minsker**, University of Illinois, **Robert Greenwald**, GeoTrans, Inc., **Karla Harre**, NFESC, **Kathy Yager**, US EPA Office of Superfund Remediation & Technology Innovation, and **Dave Becker**, USACE		
	AND		
	ITRC Presents: Essentials of Remediation Process Optimization by the **ITRC RPO Team, Tom O'Neill**, Team Leader		

DAY 2 MORNING

Wednesday, June 16	TRACK A Remediation Process Optimization	TRACK B Site Characterization, Long Term Monitoring, and Data Management Optimization	TRACK C Strategic Considerations for Site Closeout
AM Sessions	**Measuring Remedy Performance**	**Advances in Site Characterization and Investigation Technologies**	**Financial Aspects of Optimization**
8:30 - 9:00	***Systematic Approach to Capture Zone Analysis for Pump-and-Treat Systems*** **Dr. Luanne Vanderpool**, US EPA	***The Triad Approach as a Catalyst for 2nd-Generation Practices*** **Deana Crumbling**, US EPA Office of Superfund Remediation & Technology Innovation	***Estimating Cost Savings from the Optimization of Long Term Monitoring Programs at U.S. Air Force Bases*** **Robert Stewart**, SAIC
9:00-9:30	***EPA Guidance on Effective Management of Operating Pump and Treat Systems with a Template for Operations and Maintenance Reports*** **Dr. Douglas Sutton**, GeoTrans, Inc. and **Jennifer Griesert**, EPA OSRTI	***The Road to a Real Time In-Situ Monitoring System*** **Denise MacMillan**, USACE	***Review of Life-cycle Project Baselines for Accelerated Remediation*** **Deborah Griswold**, US DOE/NNSA Service Center
9:30-10:00	***Evaluating Remediation Completeness and Effects on Site Management Using CLOSES*** **Anthony Pennino**, CH2M HILL	***Methodology For Integrating Direct Sensing Tools With In-Situ Remediation Injection Technology To Facilitate Effective Treatment of Groundwater*** **Eliot Cooper**, Vironex, Inc.	***Optimizing Environmental Insurance Procurements*** **David Dybdahl**, American Risk Management Resources Network, LLC
10:00-10:30	**BREAK**		
10:30-11:00	***Assessment of Hydraulic Capture through Interpolation of Measured Water Level Data*** **Matthew Tonkin**, S. S. Papadopulos & Associates, Inc.	***A Review of Emerging Sensor Technologies For Facilitating Long-Term Ground Water Monitoring of Volatile Organic Compounds*** **Dr. Douglas Sutton**, GeoTrans, Inc.	***ANG Optimization Program Success Stories and Lessons Learned*** **Eric Barefoot**, Booz Allen and Hamilton
11:00-11:30	***Enhanced Data-Driven Assessments of Hydraulic Capture Zones*** **David Dougherty**, Subterranean Research, Inc.	***Accelerated VOC Source Investigation Pairing SCAPS/MIP with EPA Triad to Save Time and Money, Marine Corps Base Camp Pendleton, California*** **Karen Collins**, San Diego Navy Public Works Center	***Modeling the Market for Long-Term Monitoring*** **Carlos Pachon**, US EPA Office of Superfund Remediation & Technology Innovation
11:30-12:00	***Performance Monitoring of MNA Remedies for VOCs in Ground Water*** **Herb Levine**, US EPA	***The Advanced Monitoring System Initiative: Optimizing Delivery and Application of New Sensor and Monitoring Solutions*** **John Jones**, US Department of Energy, Nevada Site Office	***New EPA Guidance - Effective Contracting Approaches for Operating Pump and Treat Systems*** **Peter Rich, P.E.**, GeoTrans, Inc. and **Kathy Yager**, EPA OSRTI
12:00-1:30	**LUNCH ON YOUR OWN**		

DAY 2 AFTERNOON

	TRACK A Remediation Process Optimization	TRACK B Site Characterization, Long Term Monitoring, and Data Management Optimization	TRACK C Strategic Considerations for Site Closeout
PM Sessions	**Treatment Technology Optimization**	**Long Term Monitoring Optimization**	**Paths to Site Closeout**
1:30 - 2:00	***Systematic Approach to Optimization of Permanganate In Situ Chemical Oxidation System*** **Mike Maughon**, NAVFAC SOUTHDIV	***Optimization of Large Scale Subsurface Environmental Impacts: Investigations and Long Term Monitoring*** **Dr. Larry Deschaine**, SAIC	***Performance-Based Environmental Restoration Management Assessment (PERMA)*** **Lt. Col. Daniel Welch**, AFCEE
2:00-2:30	***New EPA Guidance on Cost-Effective Design of Pump and Treat Systems*** **Peter Rich, P.E.**, GeoTrans, Inc. and **Jeff Heimerman**, EPA OSRTI	***Data Sufficiency Analysis Before and After Detection of a Leachate Plume from a Municipal Landfill in Northeastern New York State*** **Paula Mouser**, University of Vermont, Department of Civil and Environmental Engineering	***Exit Strategy*** **Dr. Javier Santillan**, AFCEE
2:30-3:00	***Reducing Costs and Time to Site Closeout through DNAPL Removal*** **Daniel Briller, P.E.**, Booz Allen Hamilton	***A Roadmap to Long Term Monitoring Network Optimization Methods and Tools*** **Dr. Carolyn Nobel**, PARSONS	***Mining CERCLA Five-Year Review Reports to Improve Remedy Performance and Accelerate Site Closeout*** **Elizabeth Wayt**, Project Performance Corporation
3:00-3:30	**BREAK**		
3:30-4:00	***Optimization of In-Situ Chemical Oxidation Design Parameters*** **Dr. M. Amine Dahmani**, Environmental Research Institute, The University of Connecticut	***Using Monitoring Data to Assess Remedy Progress: Using Temporal Changes in Plume Metrics*** **David Wilson**, US EPA, Region 5	***Application of Classical Reliability Management Tools to Support Remedial Program Optimization*** **Dr. Richard Cronce, SAIC**
4:00-4:30	***Practical Optimization and Uncertainty Analysis for Permeable Reactive Barrier Systems*** **Brett Painter**, Lincoln Environmental	***Concepts and Practice in Optimization of Long-Term Monitoring Programs*** **John Anthony**, Mitretek Systems	***Environmental Programs BRAC Completion Plans – A Template for Success*** **Arthur Ditto**, Air Force Real Property Agency (AFRPA)
4:30-5:00	***Evaluating In-Situ Thermal Remediation Technologies – Optimize Your Selection Process*** **Dr. Ralph Baker**, TerraTherm, Inc.	***Overview of Air Force Long-Term Monitoring Optimization Programs and Case Studies*** **Philip Hunter**, AFCEE	***RTDF NAPL Cleanup Alliance: A Decision-Making Framework for Cleanup of Sites Impacted with Light Non-Aqueous Phase Liquids*** **Dr. Dawn Kaback**, Concurrent Technologies Corporation
Evening Workshops 6:30 PM-9:00 PM	***The Triad Approach to Managing Decision Uncertainty for Better Cleanup Projects*** **Deana Crumbling,** US EPA Office of Superfund Remediation & Technology Innovation **AND** ***Long-Term Monitoring Optimization Methods and Software*** **Kathy Yager**, U.S. Environmental Protection Agency Technology Innovation and Field Services, **Julia Aziz**, Groundwater Services, Inc., Dr. **Carolyn Nobel,** Parsons Inc., Dr. **Kirk Cameron,** MacStat Consulting, Ltd., Dr. **Barbara Minsker,** Moire, Inc.		

DAY 3 MORNING

Thursday, June 17	TRACK A Remediation Process Optimization	TRACK B Site Characterization, Long Term Monitoring, and Data Management Optimization	TRACK C Strategic Considerations for Site Closeout
AM Sessions	**Mathematical Optimization Approaches**	**Data Management and Data Evaluation Techniques**	**Programmatic Optimization Strategies**
8:30 - 9:00	***Optimization of Large Scale Subsurface Environmental Impacts: Optimal Remedial Design*** **Dr. Larry Deschaine**, SAIC	***Broad-based Application of Interactive 3 and 4D Technologies to Soil and Groundwater Contaminated Sites*** **Gavin Hudgeons**, E60 Vision	***Ground Water Remediation Optimization: Benefits and Approaches - A New EPA Fact Sheet*** **Dave Becker**, USACE and **Kathy Yager**, EPA OSRTI
9:00-9:30	***Multi-objective Design of Active Remediation with Natural Attenuation Under Parameter Uncertainty*** **Dr. Amy Chan-Hilton**, Civil and Environmental Engineering, Florida State University	***Real-time Data Discovery and Notification of Restoration Progress through Automated Electronic Data Delivery*** **Michael Barinek**, DePaul University, School of Computer Science	***Optimization of Remedial Action Operations at Four Sites at a Department of Navy Installation*** **Rodger Jackson**, Naval Facilities Engineering Command, Atlantic Division
9:30-10:00	***Tuning Groundwater Management Technologies Using Evolutionary Algorithms*** **Dr. Peter Bayer**, Center for Applied Geoscience, University of Tuebingen	***Web Cures For the Environmental Data Blues*** **Dr. Todd Pierce and Marian Carr**, Locus Technologies	***RSE's and RPMs: Working Together to Effect Change*** **Dion Novak**, RPM Region 5
10:00-10:30	**BREAK**		
10:30-11:00	***Application of Flow and Transport Optimization Codes to Groundwater Pump and Treat Systems*** **Dave Becker**, US ACE, Hazardous, Toxic, and Radioactive Waste Center of Expertise	***Flexible Cradle to Grave Data Management Tools for Complex Tasks Including Data Visualization, Data Evaluation, Optimization, and Site Closeout*** **David Greenberg**, Jacobs Engineering	***Benefits from the 2003 CERCLA Five-Year Review Process for Site Management and Optimization at Hill Air Force Base*** **Dr. Barbara Hall**, Hill Air Force Base, Environmental Remediation
11:00-11:30	***Multi-objective Optimization of an In Situ Bioremediation Technology to Treat Perchlorate-Contaminated Groundwater*** **Dr. Mark Golz**, Air Force Institute of Technology	***Using Web-Based Tools with Wireless Access and Standardized Data Structures to Optimize Speed and Efficiency of Data Collection and Analysis – Techniques Implemented at DOD Facilities*** **Andrew Crabb**, BEM Systems, Inc.	***EPA Region 6 Corrective Action Strategy Facility Lead Risk-Based Performance-Based Cleanups*** **Richard Ehrhart**, US EPA Region 6
11:30-12:00	***Optimizing Groundwater Corrective Action Utilizing 3D Flow and Solute Transport Modeling at Moody Air Force Base, Valdosta, GA*** **Belinda Price**, Shaw Environmental & Infrastructure, Inc.	***Application of a Web Based Environmental Data Management System*** **Gary Clendenin**, R.G., ICF Consulting	***Review of Remedial Process Optimization (RPO) Program Management at Pacific Air Forces (PACAF) Installations: Program Strategies and Lessons Learned*** **Mark Ingoglia**, Pacific Air Forces
12:00	**CONFERENCE ENDS**		