

### **In Situ Thermal Remediation (ISTR) Bibliography, 1995-2009**

- Uzgiris, E.E., Edelstein, W.A., Philipp, H.R., and Iben, I.E.T. 1995. "Complex Thermal Desorption of PCBs from Soil." *Chemosphere*, 30(2):377-387.
- Stegemeier, G.L. and H.J. Vinegar. 1995. "Soil Remediation by Surface Heating and Vacuum Extraction," paper SPE 29771, *Proceedings of 1995 SPE/EPA Exploration and Production Environmental Conference*, Houston, TX, March 27-29.
- Iben, I.E.T., W.A. Edelstein, R.B. Sheldon, A.P. Shapiro, E.E. Uzgiris, C.R. Scatena, S.R. Blaha, W.B. Silverstein, G.R. Brown, G.L. Stegemeier, and H.J. Vinegar. 1996. "Thermal Blanket for In-Situ Remediation of Surficial Contamination: A Pilot Test," *Environmental Science and Technology*, 30(11): 3144-3154.
- Sheldon, R.B., I.E.T. Iben, W.A. Edelstein, H.J. Vinegar, E.P. deRouffignac, F.G. Carl, J.L. Menotti, J. Coles, J.M. Hirsch, W.B. Silverstein, S.R. Blaha, C.R. Scatena, and G.W. Siegel. 1996. "Field Demonstration of a Full-Scale In-Situ Thermal Desorption System for the Remediation of Soil Containing PCBs and Other Hydrocarbons," *Proceedings of the HAZWaste World-Superfund XVII Conference*, Washington, D.C., Oct. 15-17, 1996.
- Vinegar, H.J., E.P. deRouffignac, J.L. Menotti, J.M. Coles, G.L. Stegemeier, R.B. Sheldon, and W.A. Edelstein. 1997. "Remediation of Deep Soil Contaminants Using Thermal Vacuum Wells," paper SPE 39291, *Proceedings of the 1997 SPE Annual Technical Conference*, San Antonio, Texas, October 5-8.
- Vinegar, H.J., E.P. deRouffignac, R.L. Rosen, G.L. Stegemeier, M.M. Bonn, D.M. Conley, S.H. Phillips, J.M. Hirsch, F.G. Carl, J.R. Steed, D.H. Arrington, P.T. Brunette, W.M. Mueller, and T.E. Siedhoff. 1997. "In Situ Thermal Desorption (ISTD) of PCBs", *Proceedings of the HazWaste/World Superfund XVIII Conference*, Washington, DC, December 2, 1997.
- Conley, D.M., and K. Jenkins. 1998. "Application of ISTD to Remediate PCBs from Soil at the Former Mare Island Naval Shipyard, Vallejo, CA." Presented at the 3<sup>rd</sup> Annual Tri-Service Conference, San Diego, CA., August 15-17, 1998.
- Hansen, K.S., D.M. Conley, H.J. Vinegar, J.M. Coles, J.L. Menotti, and G.L. Stegemeier. 1998. "In Situ Thermal Desorption of Coal Tar." *Proceedings of the Institute of Gas Technology/Gas Research Institute International Symposium on Environmental Biotechnologies and Site Remediation Technologies*. Orlando, FL, December 7-9, 1998.
- France-Isetts, P. 1998. "In Situ Thermal Blankets and Wells for PCB Removal in Tight Clay Soils," *Tech Trends*, EPA Region 7. (February, 1998). Available at: <http://clu-in.org/products/newsletters/TTREND/tt0298.htm>
- Cost and Performance Summary Report, In Situ Thermal Desorption at the Missouri Electric Works Superfund Site, Cape Girardeau, Missouri*. 1998. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Technology Innovation Office. pp. 282-288.
- Naval Facilities Engineering Service Center. 1998. *Tech Data Sheet: A Demonstration of In-Situ Thermal Desorption*. TDS-2051-ENV, March 1998. Port Hueneme, CA.

Conley, D.M. 1999. "Application of ISTD Thermal Well Technology- Case Study." Presented at the 1<sup>st</sup> International Environmental Exposition, Interstate Technology Regulatory Cooperation (ITRC) Workgroup, Atlantic City, NJ, April 21, 1999.

Vinegar, H.J., G.L. Stegemeier, F.G. Carl, J.D. Stevenson, and R.J. Dudley. 1999. "In Situ Thermal Desorption of Soils Impacted with Chlorinated Solvents." *Proceedings of the Annual Meetings of the Air and Waste Management Association*, Paper No. 99-450.

Baker, R.S., H.J. Vinegar, and G.L. Stegemeier. 1999. "Use of In Situ Thermal Conduction Heating to Enhance Soil Vapor Extraction." pp. 39-57. In: P.T. Kostecki, E.J. Calabrese and M. Bonazountas (eds.) *Contaminated Soils*, Volume 4. Amherst Scientific Publishers, Amherst, MA.

Conley, D.M., and C.M. Lonie. 2000. "Field Scale Implementation of In Situ Thermal Desorption Thermal Well Technology." pp. 175-182. In: G.D. Wickramanayake and A.R. Gavaskar (eds.) *Physical and Thermal Technologies: Remediation of Chlorinated and Recalcitrant Compounds*. Battelle Press, Columbus, OH.

Conley, D.M., K.S. Hansen, G.L. Stegemeier, H.J. Vinegar, F.R. Fossati, F.G. Carl, and H.F. Clough. 2000. "In Situ Thermal Desorption of Refined Petroleum Hydrocarbons from Saturated Soil." Pp. 197-206. In: G.D. Wickramanayake and A.R. Gavaskar (eds.) *Physical and Thermal Technologies: Remediation of Chlorinated and Recalcitrant Compounds*. Battelle Press, Columbus, OH.

Baker, R.S., J.P. Galligan, D. Gregory, D.M. Conley, S. Hall, and P. Patton. 2000. "In Situ Thermal Desorption Treatability Study at Rocky Mountain Arsenal Hex Pit." Presented at the 2<sup>nd</sup> International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 22-25, 2000.

Stegemeier, G.L., and Vinegar, H.J. 2001. "Thermal Conduction Heating for In-Situ Thermal Desorption of Soils." Ch. 4.6, pp. 1-37. In: Chang H. Oh (ed.), *Hazardous and Radioactive Waste Treatment Technologies Handbook*, CRC Press, Boca Raton, FL.

Baker, R.S., and Bierschenk, J.M. 2001. "In-Situ Thermal Destruction Makes Stringent Soil And Sediment Cleanup Goals Attainable." In: *Proceedings of the Fourth Tri-Service Environmental Technology Symposium*, 18-20 June 2001, San Diego, CA.

Baker, R.S., Galligan, J.P., McLaughlin, H., Semenak, R., Pologruto, M.P., and Weeks, K.R. 2001. "In-Situ Thermal Destruction Treatability Study Of Explosives-Contaminated Soil From Massachusetts Military Reservation." In: *Proceedings of the Fourth Tri-Service Environmental Technology Symposium*, 18-20 June 2001, San Diego, CA.

Baker, R.S., Bukowski, R.J. and McLaughlin, H. 2002. "Pilot-Scale Demonstration of In-Pile Thermal Destruction of Chlorobenzene-Contaminated Soil." Paper 2H-40, in: A.R. Gavaskar and A.S.C. Chen (Eds.), *Remediation of Chlorinated and Recalcitrant Compounds—2002*. Proceedings of the Third International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2002). ISBN 1-57477-132-9, published by Battelle Press, Columbus, OH, [www.battelle.org/bookstore](http://www.battelle.org/bookstore)

Conley, D.M., Savarese, J.G., Gupta, S. and Baker, R.S. 2002. "Field Demonstration of Thermally-Enhanced Multi-Phase Extraction on Chlorinated Solvent Impacted Soil and

Groundwater.” Paper 2G-17, in: A.R. Gavaskar and A.S.C. Chen (Eds.), *Remediation of Chlorinated and Recalcitrant Compounds—2002*. Proceedings of the Third International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2002). ISBN 1-57477-132-9, published by Battelle Press, Columbus, OH, [www.battelle.org/bookstore](http://www.battelle.org/bookstore)

Baker, R.S. and M. Kuhlman. “A Description of the Mechanisms of In-Situ Thermal Destruction (ISTD) Reactions.” In: H. Al-Ekabi (Ed.), *Current Practices in Oxidation and Reduction Technologies for Soil and Groundwater*. Presented at the 2nd International Conf. on Oxidation and Reduction Technologies for Soil and Groundwater, ORTs-2, Toronto, Ontario, Canada, Nov. 17-21, 2002.

Baker, R.S. and J.C. LaChance. 2002. “In-Situ Thermal Destruction (ISTD) Performance Relative to Dioxins.” In: H. Al-Ekabi (ed.) *Current Practices in Oxidation and Reduction Technologies for Soil and Groundwater*. Presented at the 2nd International Conf. on Oxidation and Reduction Technologies for Soil and Groundwater, ORTs-2, Toronto, Ontario, Canada, Nov. 17-21, 2002.

Hayes, T. 2002. *Development of In Situ Thermochemical Solidification for the Risk Based Treatment of Coal-Derived Dense Nonaqueous Phase Liquids*. GRI-04/0215. Gas Technology Institute, Des Plaines, IL.

Baker, R.S. and J.C. LaChance. 2003. “Performance Relative to Dioxins of the In-Situ Thermal Destruction (ISTD) Soil Remediation Technology.” In: G. Hunt (ed.) *Proceedings of the 23rd International Symposium on Halogenated Organic Pollutants and Persistent Organic Pollutants (Dioxin 2003)*, Boston, MA, Aug. 24-29, 2003.

Elliot, L.J., G.A. Pope, and R.T. Johns. 2003. *In-situ thermal remediation of contaminant below the water table*. SPE Paper No. 81204.

USEPA. 2003. “Cost and Performance Report, In Situ Conductive Heating at the Confidential Chemical Manufacturing Facility, Portland, IN.” 8 pp. In: *In Situ Thermal Treatment of Chlorinated Solvents: Fundamentals and Field Applications*, Appendix A. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation. Washington, DC. March 2004. EPA 542-R-04-010. Available at <http://costperformance.org/profile.cfm?ID=330&CaseID=330>.

Baker, R.S., J.P. Galligan and J.M. Bierschenk. 2004. “In-Situ Thermal Destruction (ISTD) at Rocky Mountain Arsenal Hex Pit” Vendor Report In: Superfund Innovative Technology Evaluation (SITE) Program, *Field Evaluation of TerraTherm In Situ Thermal Destruction Treatment of Hexachlorocyclopentadiene at the Hex Pit, Rocky Mountain Arsenal, Commerce City, CO: Final Report*. Prepared for: U.S. Environmental Protection Agency, Office of Research and Development, National Risk Management Research Laboratory Cincinnati, Ohio, Prepared by: Tetra Tech EM, Inc., Cincinnati, OH, EPA Contract No. 68-C-00-181, Task Order No. 0019.

LaChance, J.C., R.S. Baker, J.P. Galligan, and J.M. Bierschenk. 2004. “Application of ‘Thermal Conductive Heating/In-Situ Thermal Desorption (ISTD)’ to the Remediation of Chlorinated Volatile Organic Compounds in Saturated and Unsaturated Settings.” *Proceedings of Gas Technology Institute’s Natural Gas Technologies II Conference*, Phoenix, AZ, Feb. 8, 2004.

Baker, R.S., J.C. LaChance, M.W. Kresge, R.J. Bukowski, J.P. Galligan and M. Kuhlman. 2004. "In-Situ Thermal Destruction (ISTD) of MGP Waste in a Former Gasholder: Design and Installation." *Proceedings of Gas Technology Institute's Natural Gas Technologies II Conference*, Phoenix, AZ, Feb. 8, 2004.

Baker, R.S. and G. Heron. 2004. "In-Situ Delivery of Heat by Thermal Conduction and Steam Injection for Improved DNAPL Remediation." Paper 2B-18, in: A.R. Gavaskar and A.S.C. Chen (Eds.), *Remediation of Chlorinated and Recalcitrant Compounds—2004*. Proceedings of the Fourth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2004). ISBN 1-57477-145-0, published by Battelle Press, Columbus, OH, [www.battelle.org/bookstore](http://www.battelle.org/bookstore)

Baker, R.S., J.C. LaChance, M.W. Kresge, R.J. Bukowski, J.P. Galligan, K. Parker, C.M. Duteau, M. Kuhlman and E.H. White. 2004b. "In-Situ Thermal Destruction (ISTD) of MGP Waste in a Former Gasholder: Design and Installation." Paper 4A-18, in: A.R. Gavaskar and A.S.C. Chen (Eds.), *Remediation of Chlorinated and Recalcitrant Compounds—2004*. Proceedings of the Fourth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2004). ISBN 1-57477-145-0, published by Battelle Press, Columbus, OH, [www.battelle.org/bookstore](http://www.battelle.org/bookstore)

Bierschenk, J.M., R.S. Baker, R.J. Bukowski, K. Parker, R. Young, J. King, T. Landler, and D. Sheppard. 2004. "Full-Scale Phase 1a Results of ISTD Remediation at Former Alhambra, California Wood Treatment Site." Paper 4A-09, in: A.R. Gavaskar and A.S.C. Chen (Eds.), *Remediation of Chlorinated and Recalcitrant Compounds—2004*. Proceedings of the Fourth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2004). ISBN 1-57477-145-0, published by Battelle Press, Columbus, OH, [www.battelle.org/bookstore](http://www.battelle.org/bookstore)

LaChance, J.C., R.S. Baker, J.P. Galligan, and J.M. Bierschenk. 2004b. "Application of 'Thermal Conductive Heating/In-Situ Thermal Desorption (ISTD)' to the Remediation of Chlorinated Volatile Organic Compounds in Saturated and Unsaturated Settings." Paper 2B-21, in: A.R. Gavaskar and A.S.C. Chen (Eds.), *Remediation of Chlorinated and Recalcitrant Compounds—2004*. Proceedings of the Fourth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2004). ISBN 1-57477-145-0, published by Battelle Press, Columbus, OH, [www.battelle.org/bookstore](http://www.battelle.org/bookstore)

Todd, L., K. Guy and R.S. Baker. 2004. "Lessons Learned from the Application of In Situ Thermal Destruction of Hexachlorocyclopentadiene Waste at the Rocky Mountain Arsenal." Paper 2B-20, in: A.R. Gavaskar and A.S.C. Chen (Eds.), *Remediation of Chlorinated and Recalcitrant Compounds—2004*. Proceedings of the Fourth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2004). ISBN 1-57477-145-0, published by Battelle Press, Columbus, OH, [www.battelle.org/bookstore](http://www.battelle.org/bookstore)

Elliott, L.J., G.A. Pope, and R.T. Johns. 2004. "Multidimensional Numerical Reservoir Simulation of Thermal Remediation of Contaminants Below the Water Table." Paper 2B-08, in: A.R. Gavaskar and A.S.C. Chen (Eds.), *Remediation of Chlorinated and Recalcitrant Compounds—2004*. Proceedings of the Fourth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2004). ISBN 1-57477-145-0, published by Battelle Press, Columbus, OH, [www.battelle.org/bookstore](http://www.battelle.org/bookstore)

Hiester, U., and V. Schenk. 2005. "In-Situ Thermal Remediation: Ecological and Economic Advantages of the TUBA and THERIS Methods." *Proceedings of ConSoil2005*, Bordeaux, France.

Heron, G., R. Baker, J. LaChance and A. Kirketerp Friis. 2005. "Using Heat to Accelerate Remediation". Paper D-23, in: B.C. Alleman and M.E. Kelley (Eds.), *In Situ and On-Site Bioremediation. Proceedings of the Eighth International In Situ and On-Site Bioremediation Symposium* (Baltimore, Maryland; June 6-9). ISBN 1-57477-152-3, Battelle Press, Columbus, OH, [www.battelle.org/bookstore](http://www.battelle.org/bookstore)

USEPA. 2005. *Cost and Performance Summary Report, In Situ Thermal Desorption at Rocky Mountain Arsenal Hex Pit, Adams County, Colorado*. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation, November 2005. 9 pp.

Heron, G., S. Carroll and S. G. Nielsen. 2005. Full-Scale Removal of DNAPL Constituents Using Steam-Enhanced Extraction and Electrical Resistance Heating. *Ground Water Monitoring & Remediation* 25, no. 4/ Fall 2005/pages 92–107.

Baker, R.S., D. Brogan and M. Lotti. 2006. "Demonstration of Tailored Levels of In-Situ Heating for Remediation of a Former MGP Site." *Proceedings of the International Symposium and Exhibition on the Redevelopment of Manufactured Gas Plant Sites (MGP2006)*, Reading, England, April 4-6, 2006. *Journal of Land Contamination and Reclamation*, 14(2):335-339.

Baker, R.S., J.C. LaChance and G. Heron. 2006. "In-Pile Thermal Desorption of PAHs, PCBs and Dioxins/Furans in Soil and Sediment". *Proceedings of the International Symposium and Exhibition on the Redevelopment of Manufactured Gas Plant Sites (MGP2006)*, Reading, England, April 4-6, 2006. *Journal of Land Contamination and Reclamation*, 14(2):620-624.

Hiester, U., H.-P. Koschitzky, O. Trötschler, A. Färber, R.S. Baker, J.C. LaChance, G. Heron, and M. Kuhlman. 2006. "Thermal Well Operation in the Saturated Zone – New Options for DNAPL Remediation." *Proceedings of the International Symposium and Exhibition on the Redevelopment of Manufactured Gas Plant Sites (MGP2006)*, Reading, England, April 4-6, 2006. *Journal of Land Contamination and Reclamation*, 14(2):615-619.

Baker, R.S., D. Brogan and M. Lotti. 2006. "Demonstration of Three Levels of In-Situ Heating for Remediation of a Former MGP Site." Paper L-74 In *Remediation of Chlorinated and Recalcitrant Compounds - 2006: Proceedings of the Fifth International Conference* (May 22-25, 2006). Battelle, Columbus, OH.

Baker, R.S., J.C. LaChance, G. Heron, U. Hiester, H.-P. Koschitzky, O. Trötschler, A. Färber, and M. Kuhlman. 2006. "DNAPL Removal from the Saturated Zone using Thermal Wells." Paper F-34, in: Bruce M. Sass (Conference Chair), *Remediation of Chlorinated and Recalcitrant Compounds—2006*. *Proceedings of the Fifth International Conference on Remediation of Chlorinated and Recalcitrant Compounds* (Monterey, CA; May 2006). ISBN 1-57477-157-4, published by Battelle Press, Columbus, OH, [www.battelle.org/bookstore](http://www.battelle.org/bookstore).

Heron, G., R.S. Baker, J.M. Bierschenk and J.C. LaChance. 2006. "Heat it All the Way - Mechanisms and Results Achieved using In-Situ Thermal Remediation." Paper F-13, in: Bruce M. Sass (Conference Chair), *Remediation of Chlorinated and Recalcitrant Compounds—2006*. *Proceedings of the Fifth International Conference on Remediation of Chlorinated and*

Recalcitrant Compounds (Monterey, CA; May 2006). ISBN 1-57477-157-4, published by Battelle Press, Columbus, OH, [www.battelle.org/bookstore](http://www.battelle.org/bookstore).

Kunkel, A.M., J.J. Siebert, L.J. Elliot, R. Kelley., L.E. Katz, and G.A. Pope. 2006. Remediation of elemental mercury using in-situ thermal desorption (ISTD). *Environmental Science & Technology*. 40: 2384-2389.

LaChance, J., G. Heron and R. Baker. 2006. "Verification of an Improved Approach for Implementing In-Situ Thermal Desorption for the Remediation of Chlorinated Solvents." Paper F-32, in: Bruce M. Sass (Conference Chair), *Remediation of Chlorinated and Recalcitrant Compounds—2006*. Proceedings of the Fifth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2006). ISBN 1-57477-157-4, published by Battelle Press, Columbus, OH, [www.battelle.org/bookstore](http://www.battelle.org/bookstore).

Davis, E.L., G. Heron and J. LaChance. 2006. "Does Field Data Show Downward Mobilization of DNAPL during Thermal Treatment?" Poster paper presented at *Remediation of Chlorinated and Recalcitrant Compounds—2006*. Fifth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2006).

Yargeau, T. and J. Bierschenk. 2007. In-Situ Thermal Remediation Completed on Wood-Treatment Waste. CLU-IN, USEPA Technology Innovation Program. *Technology News and Trends*, January 2007. <http://clu.in.org/products/newsletters/tnandt/view.cfm?issue=0107.cfm#4>

Baker, R.S., D. Tarmasiewicz, J.M. Bierschenk, J. King, T. Landler and D. Sheppard. 2007. Completion of In-Situ Thermal Remediation of PAHs, PCP and Dioxins at a Former Wood Treatment Facility. *2007 International Conference on Incineration and Thermal Treatment Technologies (IT3)*, May 14-18, 2007, Phoenix, AZ. Air & Waste Management Association, Pittsburgh, PA.

Baker, R.S., G. Heron, D. Tarmasiewicz and J.M. Bierschenk. 2008. Completion of In-Situ Thermal Remediation of PAHs, PCP and Dioxins at a Former Wood Treatment Facility. *Proceedings of the 10<sup>th</sup> International UFZ-Deltares/TNO Conference on Soil-Water Systems (ConSoil 2008)*, 3-6 June, 2008, Milano, Italy.

Baker, R.S., G. Heron, J. LaChance, A. Färber, L. Yang and U. Hiester. 2008. 2-D Physical Models of Thermal Conduction Heating for Remediation of DNAPL Source Zones in Aquitards. *Proceedings of the 10<sup>th</sup> International UFZ-Deltares/TNO Conference on Soil-Water Systems (ConSoil 2008)*, 3-6 June, 2008, Milano, Italy.

Hiester, U., M. Müller, O. Trötschler, H.-P. Koschitzky, R. Baker, J. LaChance, G. Heron and M. Kuhlman. 2008. Dominating processes during DNAPL removal from the saturated zone using thermal wells. *Proceedings of the 10<sup>th</sup> International UFZ-Deltares/TNO Conference on Soil-Water Systems (ConSoil 2008)*, 3-6 June, 2008, Milano, Italy.

Baker, R.S., J.M. Bierschenk, J. LaChance, J.P. Galligan, D. Tarmasiewicz, G. Heron and W.R. Leach. 2008. Why In Situ Thermal Desorption Can Be the Most Cost-Effective Remediation Method for Many Sites. Paper N-003, in: Bruce M. Sass (Conference Chair), *Remediation of Chlorinated and Recalcitrant Compounds—2008*. Proceedings of the Sixth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2008). Battelle Press, Columbus, OH.

Heron, G., R.S. Baker, J.M. Bierschenk and J. LaChance. 2008. Use of Thermal Conduction Heating for the Remediation of DNAPL in Fractured Bedrock. Paper P-003, in: Bruce M. Sass (Conference Chair), *Remediation of Chlorinated and Recalcitrant Compounds—2008*. Proceedings of the Sixth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2008). Battelle Press, Columbus, OH.

Cole, J., W.J. McElroy, J. Glasgow, G. Heron, J. Galligan, K. Parker and E.F. Davis. 2008. In Situ Thermal Treatment of Trichloroethene at Marshall Space Flight Center. Abstract P-032, in: Bruce M. Sass (Conference Chair), *Remediation of Chlorinated and Recalcitrant Compounds—2008*. Proceedings of the Sixth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2008). Battelle Press, Columbus, OH.

Bierschenk, J.M., J. LaChance, J. Galligan, G. Heron, D. Tully, A.-M. Kozłowska and S. Langford. 2008. Thermally Enhanced Soil Vapor Extraction Closing DNAPL Sites - Case Studies. Paper P-012, in: Bruce M. Sass (Conference Chair), *Remediation of Chlorinated and Recalcitrant Compounds—2008*. Proceedings of the Sixth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2008). Battelle Press, Columbus, OH.

LaChance, J., R. Baker and G. Heron. 2008. Use of Thermal Conduction Heating for the Removal and Controlled Mobilization of a Mixed-Waste DNAPL Source Zone. Abstract P-003, in: Bruce M. Sass (Conference Chair), *Remediation of Chlorinated and Recalcitrant Compounds—2008*. Proceedings of the Sixth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2008). Battelle Press, Columbus, OH.

Dyson, K.D., P.J. Palko and G. Heron. 2008. In Situ Steam-Enhanced Extraction (SEE) for CVOC Removal and NAPL Recovery. Abstract P-010, in: Bruce M. Sass (Conference Chair), *Remediation of Chlorinated and Recalcitrant Compounds—2008*. Proceedings of the Sixth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2008). Battelle Press, Columbus, OH.

Nielsen, S.G., H.E. Steffensen, T. Heron, G. Heron, M. Kuhlman, H. Skou, N. Just and L. Dissing. 2008. First Thermal Remediation Using a Combination of Steam and ISTD. Paper P-015, in: Bruce M. Sass (Conference Chair), *Remediation of Chlorinated and Recalcitrant Compounds—2008*. Proceedings of the Sixth International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Monterey, CA; May 2008). Battelle Press, Columbus, OH.

Baker, R.S., Smith, G.J., and H. Braatz. 2009. "In-Pile Thermal Desorption of Dioxin Contaminated Soil and Sediment." In: Proceedings of the 29th International Symposium on Halogenated Persistent Organic Pollutants (Dioxin 2009), Beijing, China, Aug. 23-28, 2009.

Heron, G., K. Parker, J. Galligan and T.C. Holmes. 2009. "Thermal Treatment of 8 CVOC Source Areas to Near Nondetect Concentrations." *Ground Water Monitoring and Remediation*. 29 No. 3 / Summer 2009, pp. 56-65.

