

REFERENCES – MASTER LIST

MIT Household Drinking Water Treatment, Safe Storage, Wastewater/Sanitation Projects
Nepal, Haiti, Nicaragua, Peru, Dominican Republic, Brazil, Puerto Rico, Kenya
1998-2005

Susan Murcott <murcott@mit.edu>
Massachusetts Institute of Technology
Department of Civil and Environmental Engineering

I. WATER/SANITATION IN DEVELOPING COUNTRIES THESES AND REPORTS (73 items total)

Alekal, Pragnya. "Appropriate Water Treatment in Nyanza: A Case Study of SWAK Communities in Nyanza." Masters of Engineering Thesis. Civil and Environmental Engineering Department, Massachusetts Institute of Technology, Cambridge, Massachusetts. May 2005.

Alekal, P., Baffrey, R., Franz, A., Loux, B., Pihulic, M., Robinson, B., Young, S. Household Water Treatment and Sanitation Systems. Masters of Engineering Group Report. Civil and Environmental Engineering Department, Massachusetts Institute of Technology, Cambridge, Massachusetts. May 2005.

Baffrey, Robert Michael Nuval. Development of Program Implementation, Evaluation and Selection Tools for Household Water Treatment and Safe Storage Systems in Developing Countries. Masters of Engineering Thesis. Civil and Environmental Engineering Department, Massachusetts Institute of Technology, Cambridge, Massachusetts. May 2005.

Bittner, A., Halsey, T., Khayyat, A., Luu, K., Maag, B., Murcott, S., Sagara, J., Wolfe, A. 2002. "Drinking Water Quality and Point-of-Use Treatment in Nepal." Master of Engineering Nepal 2002 *Civil Engineering Practice*. Vol. 17. No. 1. Spring/Summer, 2002.

Bittner, Andy. 2000. "Nepal Drinking Water Quality Assessment: Nitrates and Ammonia." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts May 5, 2000.

Brin, Genevieve. 2003. "Evaluation of the Safe Water System in Jolivert Haiti by Bacteriological Testing and Public Health Survey." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Borucke, Michael Joseph. 2002. "Filtration of Giardia Cysts from Haitian Drinking Water." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Bourke, M. 2000. "Full Scale Study of Chemically Enhanced Primary Treatment in Rivera de Sao Lourenco, Brazil." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Buscemi, Pablo. 2003. Integrating Water Resources Management - Analysis of the St. Thomas, U.S. Virgin Islands Water Market. Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Cabral, C., Chagnon, F., Gotovac, D., Harleman, D., and Murcott, S. 2000. "Design of a Chemically Enhanced Wastewater Treatment Lagoon in Brazil." Paper presented at: Environmental Forum Columbia – Canada: Solution to Environmental Problems in Latin America Cartagena de Indias, Colombia May 24 – 26, 2000

Cabral, C. 1999. _____ Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Cervantes, Déborah Xanat Flores. 2003. Feasibility of Semi-Continuous Solar Disinfection System for Developing Countries at a Household Level. Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Chagnon, F. 1999. "Design and Dynamic Modeling of Waste Stabilization Ponds." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Choi, Nancy. 2003. "Design of a Wastewater Collection System for the Historical Center of Paraty, Brazil." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Coulbert, Brittany. 2004. "A Technical Evaluation of Two Drinking Water Treatment Systems: "Table Filters" (*Filtros de Mesa*) and Household Chlorination in an Emergency Relief Program in La Joya District, Peru" Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Coulbert, B. and Donison, K. 2004. "Laboratory Comparison of the Peruvian Table Filter and the Biosand Filter." Master of Engineering Group Report. May 19, 2004. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts.

Dies, R., Flores, X., Green, H., Pincus, M., Poh, S.C., Richards, A. Tabbal, G. 2003. Point-of-Use Water Treatment Technology Investigations in Nepal. . " Master of Engineering Group Report. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Dies, Robert. 2003. Development of a Ceramic Water Filter for Nepal." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Donison, Kori. 2004. "Household Scale Slow Sand Filtration in the Dominican Republic." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts.

Elice, Sara Jo. 2002. "Chlorine Demand in Haitian Water Supplies." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Fateen, Shaheerah. 2002. "The Impact of Implementation of Chemically Enhanced Primary Treatment on the Furnas Reservoir in Brazil." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Franz, Amber. "A Performance Study of Ceramic Candle Filters in Kenya Including Tests for MS2 Coliphage Removal." Masters of Engineering Thesis. Civil and Environmental Engineering Department, Massachusetts Institute of Technology, Cambridge, Massachusetts. May 2005.

Gao, Yongxuan. 2002. "Tubewell Maintenance in Butwal, Nepal." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Gao, Y., Hwang, S.K., Low, C.S., Lukacs, H., Morganti, L., Ngai, T., Poole, B., Sullivan, H., 2002. "MIT Nepal Water Project Group Report 2001-2002. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts.

Gotovac, D. 1999. "Design and Analysis of Chemical Coagulation Systems to Enhance Performance of Waste Stabilization Lagoons." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Green, Hillary. 2003. "The Effects of Carpet Dye on the Bagmati River" Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Halsey, Patricia. 2000. "Arsenic Contamination Study of Drinking Water in Nepal." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts May 5, 2000.

Hurd, J., Lee, Tse-Luen, Paynter, N., and Smith, M. 2001. "Nepal Water Project." Master of Engineering Nepal 2001 Group Report. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts. May 2001.

Hurd, Jessica. 2001. "Evaluation of Three Arsenic Remediation Technologies in Nepal." Master of Environmental Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts. May 11, 2001

Hwang, Rebeca and Miller, Bruno. 2002. Sustainable Solutions for Water Treatment and Monitoring in Developing Countries. " Paper published at: <http://www.thinkcycle.org> and delivered at Development by Design 2002 Conference, Shristi, Bangalore, India

Hwang, Rebeca. 2003. "Six Month Field Monitoring of Point-of-Use Ceramic Water Filter by Using H2S Paper Strip Most Probable Number Method in San Francisco Libre, Nicaragua." Master of Environmental Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts.

Hwang, Soon Kyu. 2002. "Point of Use Arsenic Removal from Drinking Water in Nepal." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts.

Kfoury-Kweon, Claire. 2003. "Seawater as a Coagulant Substitute and the Effects on Disinfection in Chemically Enhanced Primary Wastewater Treatment." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Khayyatt, Amer. 2000. "Study of Point of Use Treatment Methods for the Disinfection of Drinking Water in Nepal." Masters of Engineering Thesis. MIT Department of Civil and Environmental Engineering. Cambridge, Ma. June, 2000

Koop, J., Larson, K., Narisaranukul, N., and Young, J. Evaluating the Feasibility of Dlo Prop Business Models in Haiti. Term paper for Entrepreneurship without Borders 15.395. MIT, Cambridge, Ma.

Lantagne, Daniele. 2001. "Trihalomethane Formation in Rural Household Water Filtration in Haiti." Masters of Engineering Thesis. MIT Department of Civil and Environmental Engineering. Cambridge, Ma. June, 2001

Lantagne, D., Mohamed, F., Oates, P., and van Zyl, N. 2001. "Haiti Group Report-M.Eng. 2001." Master of Engineering Haiti 2001 Group Report. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Lantagne, Daniele, 2001. Investigation of the Potters for Peace Colloidal Silver Impregnated Ceramic Filter. Report 1: Intrinsic Effectiveness. Report prepared for U.S. AID. Washington D.C. December 21, 2001.

Lantagne, Daniele, 2001. Investigation of the Potters for Peace Colloidal Silver Impregnated Ceramic Filter. Report 2: Field Investigations. Report prepared for U.S. AID. Washington D.C. November 18, 2001.

Lee, Tse-Luen. 2001. "Biosand Household Water Filter Project in Nepal." Masters of Engineering Thesis. MIT Department of Civil and Environmental Engineering. Cambridge, Ma. June, 2001

Loux, Brian. "Spirasol: Improvements to Semi-Continuous Solar Disinfection Water Treatment Systems." Masters of Engineering Thesis. Civil and Environmental Engineering Department, Massachusetts Institute of echnology, Cambridge, Massachusetts. May 2005.

Low, Chian Siong. 2002. "Appropriate Microbial Indicator Tests for Drinking Water in Developing Countries and Assessment of Ceramic Water Filters." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts.

Lukacs, Heather. 2002. "From Design to Implementation: Innovative Slow Sand Filtration for Use in Developing Countries." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts.

Luu, Kim. 2000. "Study of Coagulation and Settling Processes for Implementation in Nepal." Masters of Engineering Thesis. MIT Department of Civil and Environmental Engineering. Cambridge, Ma. June, 2000

Mohamed, Farzana S. 2001. "Household-level Point of Use Water Filtration in Haiti: Strategies for Program Management and Sustainability." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts.

Morganti, Luca. 2002. "Sodium Hypochlorite Generation for Drinking Water Disinfection in Nepal." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts.

Murcott, S. and Lukacs, H. 2002. "Household Water Treatment in Nepal." Paper published at: <http://www.thinkcycle.org> and delivered at Development by Design 2002 Conference, Shristi, Bangalore, India.

Murcott, S., Hurd, J., Ngai, T., Poole, B. and Hwang, Soon Kyu "Phase I Evaluation of Seven Arsenic Remediation Technologies in Nepal. Poster Presentation at the 5th International Conference on Arsenic Exposure and Health Effects, Society for Environmental Geochemistry and Health. July 14-18, 2002. San Diego, CA.

Narashiham, Gautam. 2000. Dynamic Data Management and Modeling in a Lagoon-Based Wastewater Treatment Plant. Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Ngai, Tommy. 2002. "Arsenic Speciation and Evaluation of an Absorption Media in Rupandehi and Nawalparasi Districts of Nepal." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts.

Oates, Peter . 2001. "Solar Disinfection for Point of Use Water Treatment In Haiti." Masters of Engineering Thesis. MIT Civil and Environmental Engineering. Cambridge, Ma. June, 2001

Oates, P., Shanahan, P., and Polz, Martin. 2003. "Solar Disinfection (SODIS) Simulation of Solar Radiation for Global Assessment and Application of Point-of-use Treatment in Haiti. *Water Research* 37 (2003) 47-54

Olive, Natalia. 2002. "Design of a Chemically Enhanced Primary Treatment Plant for the City of Alfenas, Minas Gerais, Brazil" Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Parsons, Julia. 2002. "Evaluating Solar Disinfection for Point-of-Use Water Treatment in Non-Tropical Climates." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Paynter, Nathaniel. 2001. "Household Water Use and Treatment Practices in Rural Nepal." Masters of Engineering Thesis. MIT Department of Civil and Environmental Engineering. Cambridge, Ma. June, 2001

Pihulic, Michael. " An Analysis of the Production and Manufacture of the Modified Clay Pot at the Oriang Women's Pottery Group, the Amilo-Rangwe Pottery Group, and the Kinda E Teko Pottery Group in Nyanza Province, Kenya " Masters of Engineering Thesis. Civil and Environmental Engineering Department, Massachusetts Institute of Technology, Cambridge, Massachusetts. May 2005.

Pincus, Melanie. 2003. "Safe Household Drinking Water via Biosand Filtration: Pilot Project Evaluation and Feasibility Study of a Biosand Pitcher Filter." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Poh, Saik-Choon. 2003. Assessment of Constructed Wetland System in Nepal. Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Poole, Barika. 2002. "Iron-Oxide Coated Sand." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts.

Richards, Amanda. 2003. "Effects of Detergent Use on Water Quality in Kathmandu, Nepal." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts.

Robinson, Brian. "Household Adoption of Ecological Sanitation: An Assessment of Agricultural Value and User Perspectives in Nyanza Province, Kenya." Masters of Engineering Thesis. Department of Civil and Environmental Engineering and the Department of Urban Studies and Planning, Massachusetts Institute of Technology, Cambridge, Massachusetts. May 2005.

Sagara, Junko. 2001. "Study of Filtration for Point-of-Use Drinking Water Treatment in Nepal." Masters of Engineering Thesis. MIT Department of Civil and Environmental Engineering. Cambridge, Ma. June, 2000

Smith, Meghan. 2001. "Microbial Contamination and Removal From Drinking Water in the Terai Region of Nepal." Masters of Engineering Thesis. MIT Department of Civil and Environmental Engineering. Cambridge, Ma. June, 2001.

Stout, Jennifer. 2002. "Sludge Management in Alfenas, Brazil." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Sullivan, Hannah. 2002. "Household Water Chlorination for the Developing World: a Case Study in Lumbini, Nepal." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Tabbal, Georges. 2003. "Technical and Social Evaluation of Three Arsenic Remediation Technologies." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Van Zyl, Nadine. 2001. "Sodium Hypochlorite Generation for Household Water Disinfection in Haiti." Masters of Engineering Thesis. MIT Department of Civil and Environmental Engineering. Cambridge, Ma. June, 2001

Varghese, Arun. 2002. "Point-of-Use Water Treatment Systems in Rural Haiti: Human Health and Water Quality Impact Assessment." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Varghese, A., Parsons, J., Borucke, M. and Elice, S. 2002. "Point-of-Use Water Treatment in Haiti." Master of Engineering Haiti Group Report. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Wolfe, Andrea. 2000. "Microbial Contamination in the Kathmandu Valley Drinking Water Supply and Bagmati River." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts May 5, 2000.

Young, Suzanne E. "Safe Water Storage in Keyna's Modified Clay Pot: Standardization, Tap Design and Cost Recovery." Masters of Engineering Thesis. Civil and Environmental Engineering Department, Massachusetts Institute of Technology, Cambridge, Massachusetts. June 2005.

Yu, Irene. 2000. "Bench-Scale Study of Chemically Enhanced Primary Treatment in Brazil." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

You, Eun Chu. 2003. "Policy for Development of Water and Sanitation Infrastructure in Paraty, Brazil." Master of Engineering Thesis. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

II. SLOAN GLOBAL ENTREPRENEURSHIP (15.389) TERM PAPERS

Cerilles, Jeffrey, Lieu, Charlie, Obizhaeva, Anya. H2O-1B! “Bringing Safe Water to the World.” Joint Project of the MIT Sloan School of Management Global Entrepreneurship Lab (15.389) and the Civil and Environmental Engineering Department, Masters of Engineering Program. January 2003

Chasse, M., Gibney, J., Greenblatt, R., and Sluder, E. “Developing a Sales and Training Plan in Nyanza Province, Kenya. Kenya G-Lab Team Final Project, MIT Sloan School of Management March 11, 2005.

Dies, R., Wilson, B., Perreault, S., and Jones, L.A. “CeraMIT: Report of Activity Nepal” Joint Project of the MIT Sloan School of Management Global Entrepreneurship Lab (15.389) and the Civil and Environmental Engineering Department, Masters of Engineering Program. January 2003

Yldizbayrak, Basak, Moschos, Nikos, Tamar, Tamer, and Le Tallec, Yann. “Distribution of Arsenic Biosand Filters in Rural Nepal.” Joint Project of the MIT Sloan School of Management Global Entrepreneurship Lab (15.389) and the Civil and Environmental Engineering Department, Masters of Engineering Program. April, 2004

III. UNDERGRADUATE ENGINEERING STUDIES (UNDERGRAD THESES OR UROP)

Cadena, Noramay J. 2003. “MIT 2.009 Ceramic Water Filter Design and Press and Preliminary Field Testings in Managua, Nicaragua” Bachelor of Science Thesis Massachusetts Institute of Technology, Department of Mechanical Engineering Joint Project with Civil and Environmental Engineering Dept. Cambridge, Ma.

Cheung, Lily W. “Design of a Prototype Household Drinking Water Containment System Bachelor of Science Thesis Massachusetts Institute of Technology, Department of Mechanical Engineering. Joint Project with Civil and Environmental Engineering Dept. Cambridge, Ma.

Yamana, T. 2003. “Further Investigations of the CTI8 Chlorinator” UROP Final Report. Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts

Yamana, T. “ San Francisco Libre Filtrón Monitoring Program Follow-up to : *Hwang, Rebeca. 2003. “Six Month Field Monitoring of Point-of-Use Ceramic Water Filter by Using H2S Paper Strip Most Probable Number Method in San Francisco Libre, Nicaragua” Master of Engineering Thesis.*” Massachusetts Institute of Technology, Civil and Environmental Engineering Department. Cambridge, Massachusetts May 31, 2000.