LISA ALVAREZ-COHEN

Vice Provost for Academic Planning

Fred and Claire Sauer Professor

Civil and Environmental Engineering Department
University of California, 243 California Hall, Berkeley, CA 94720-1500
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**EDUCATION:**

*Ph.D., Environmental Engineering and Science*1991Stanford University, Palo Alto, CA

*M.S., Environmental Engineering and Science*1985Stanford University, Palo Alto, C*A*

*B.A., Engineering and Applied Science*1984Harvard College, Cambridge, MA

**EMPLOYMENT HISTORY:**

*Vice Provost for Academic Planning*7/18 - presentUniversity of California, Berkeley, CA

Responsible for academic program reviews, strategic academic planning, space planning, and global educational outreach in the role of Senior International Officer.

*Fred and Claire Sauer Professor, Civil and Environmental Engineering* 7/00 - presentUniversity of California, Berkeley, CA

Research areas include molecular analysis and optimization of microbial communities targeting environmental contaminants and wastewater bioprocess communities. Focus on integration of genomic, transcriptomic, proteomic and isotopic analyses to study interactions within microbial communities performing environmentally beneficial processes.

*Chair of the Civil and Environmental Engineering Dept.* 7/07 – 7/12

University of California, Berkeley, CA

*Assistant/Associate Professor, Civil and Environmental Engineering*7/91 – 6/00University of California, Berkeley, CA

*Faculty Scientist, Earth and Environmental Sciences Division* 8/92 - presentLawrence Berkeley National Laboratory, Berkeley, CA

*President’s Post-Doctoral Research Fellow*1/91 - 12/91University of California, Berkeley, CA

*Research Assistant/Teaching Assistant*1/86 - 12/90Stanford University, Palo Alto, CA

*Environmental Engineer*6/85 - 9/85Brown and Caldwell Consulting Engineers, Pleasant Hill, CA

*Laboratory Assistant*10/83 - 8/84
Harvard University, Atmospheric Chemistry Lab., Cambridge, MA

*Research Intern*6/83 - 9/83Brookhaven National Laboratory, Upton, NY

**HONORS AND AWARDS:**

• Elected Fellow of the Association of Environmental Engineering and Science Professors 2019

• SERDP Project of the Year Award, Environmental Restoration 2017

• China 1,000 Talents National Award, Foreign National Expert 2016-2018

• ASCE Simon W. Freese Environmental Engineering Award 2014

• Honorary Professor, Tongji University, Shanghai, P.R. of China 2013

• Elected to the National Academy of Engineering 2010

• Named one of “6 Scientists on the Cutting Edge of Energy and Environmental
Research” by USNews and World Report 2009

• Advisor to winner of CH2M Hill/AEESP Outstanding Doctoral Dissertation Award 2008

• Environmental Science and Technology Excellence in Review Award 2006

• Association of Environmental Engineering and Science Professors 2003

 Distinguished Service Award

• Elected Fellow of the American Academy of Microbiology 2002

• Awarded the Fred and Claire Sauer Chair in Environmental Engineering 2001

• National Science Foundation Young Investigator Award 1994-1999

• W. M. Keck Foundation Award for Engineering Teaching Excellence 1994

•Advisor to one undergraduate and three graduate student winners of 1994, 1998
Water Environment Federation Student Paper Competition and graduate
winner of the American Society of Civil Engineers Student Essay Competition

•Voted “Most Entertaining Lecturer” and “Most Enthusiastic Professor” by 1993, 1996
Berkeley Undergraduate Chapter of the American Society of Civil Engineers

•Department of Energy Environmental Restoration and Waste Management 1992-1994
Junior Faculty Award

• Association of Environmental Engineering Professors Doctoral Thesis Award 1992

•University of California President's Post-Doctoral Fellowship 1991

•Switzer Foundation Graduate Scholarship 1989-1991

•AWWA Larson Aquatic Research Support Scholarship 1989

•American Chemical Society Graduate Student Award in Environmental Chemistry 1989

•National Science Foundation Predoctoral Fellowship 1985-1988

**PROFESSIONAL ACTIVITIES (selected):**

Member of Membership Policy Committee, National Academy of Engineering (2019-present)

Member of Tsinghua Berkeley Shenzhen Institute Governance Committee, Shenzhen, China (2019-present)

Member of External Review Committee, EPFL, Switzerland (2019).

Chair (vice chair 2015-17), Division 4, National Academy of Engineering (2017-2019)

Advisory Board Member, Emerging Contaminants Summit, Westminster, Colorado, 2017-2019

Division 4 Liaison to NRC committees, National Academy of Engineering (2014-7/17)

Presidential Appointee to the Corporation Visiting Committee for the Civil and Environmental Engineering Department at the Massachusetts Institute of Technology (2009-7/17)

Associate Editor, *Environmental Engineering Science* (1997-present)

Member of the Board of Scientific Councilors, National Center for Environmental Health/Agency for Toxic Substances and Disease Registry, US Centers for Disease Control and Prevention (2012-2016)

Member of the Nominating Committee, National Academy of Engineering (2014-2016)

Member of the National Research Council Committee on Subsurface Characterization, Modeling, Monitoring, and Remediation of Fractured Rocks (2012-2016)

Member of the External Review Committee, Civil, Architectural and Environmental Engineering Dept., University of Texas, Austin (2015).

Editorial Advisory Board for *Environmental Science & Technology* (2008-2016)

Chair (previous member, and vice chair) of the Division 4 Peer Committee, National Academy of Engineering (2011-2014)

Co-chair of the Indo-American Frontiers of Engineering symposium of the National Academies (2011-2014)

Member of the National Research Council Water Science and Technology Board (2010-2013)

Member of the External Review Committee, Civil and Environmental Engineering Dept., University of Illinois, Urbana Champaign (2011-2013).

Member of Search Committee for Editor-in-Chief of new ACS journal Green Chemistry and Sustainable Engineering (2011-2012)

Chair of the American Academy of Microbiology William A. Hinton Research Training Award Committee (2007-2011, member from 2004-2007)

Member of the School Advisory Committee of the College of Engineering, Nanyang Technological University, Singapore (2009-2010)

Participant in American Academy of Microbiology colloquium on Large-Scale Sequencing, Washington DC, (2008).

Session Chair for Bioaugmentation session at the International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA (2008).

Member of the National Research Council Water Science and Technology Board Committee on Water Resources Activities at the U. S. Geological Survey (2006-2009)

Member of the National Research Council Board on Life Sciences Committee on Metagenomics: Challenges and Functional Applications (2005-2007)

Member of the National Research Council Board of Geosciences Committee to Assess the Performance of Surface and Subsurface Engineered Barriers (2005-2007)

Member of the National Science Foundation Advisory Committee for GPRA Performance Assessment (2005-2007)

Member of the Engineering Directorate Advisory Board, National Science Foundation (2003-06)

Vice-Chair of the Advisory Board for Collaborative Large-scale Environmental Analysis Network for Environmental Research (CLEANER), an NSF initiative (2005-2007).

Member of the National Research Council/National Academy of Sciences Committee on Source Removal of Contaminants in the Subsurface (2002-2005)

Elected Chief Information Officer of the Association of Environmental Engineering and Science Professors (AEESP) Board of Directors (1999-2003)

Member of the AEESP Awards Committee, Distinguished Lecturer Committee, Textbook Review Committee, Chair Liaison Committee (various dates, 1997- 2005)

Keynote Speaker at Association of Environmental Engineering and Science Professors and American Association of Engineering Education Joint Conference on Integrated Environmental Teaching, Research and Practice: Linking Engineering and Science to Address Complex Problems. Toronto, Canada (2002).

Session Chair for NIEHS-sponsored conference on "Bioremediation and Biodegradation: Current Advances in Reducing Toxicity, Exposure and Environmental Consequences", Asilomar Conference Center, Pacific Grove, California (2002).

Member of the U.S. Environmental Protection Agency Science Advisory Board Ecological Processes and Effects Committee (1997 - 2000)

Pacific Northwest National Laboratory Review Committee, US Department of Energy (2000)

Session Chair for MTBE Bioremediation session at the Second International Conference on Remediation of Chlorinated and Recalcitrant Compounds (2000).

Member of the World Bank’s World Commission on Water in the 21st Century Biotechnology Panel (1999).

Session Chair for Natural Attenuation session at the First International Conference on Remediation of Chlorinated and Recalcitrant Compounds (1998).

Member of U.S. Air Force Expert Panel on Cometabolism of Chlorinated Solvents (1997-1998)

Participant and Invited Speaker to Gordon Conference on Applied and Environmental Microbiology (1997)

Participant in National Academy of Engineering Symposium on Frontiers of Engineering (1996)

Member of the National Research Council/ National Academy of Sciences Water Science and Technology Board Committee on USGS Water Resources Research (1993-1996).

Member of The National Research Council/ National Academy of Sciences Committee on *In Situ* Bioremediation (1992-1993).

Co-convener of Seminar Session on Innovations in Biological Treatment of Wastes for 1994 American Society for Microbiology Annual Meeting.

Interviewer for Switzer Foundation Environmental Scholarships.

Peer Review for Archival Journals: *Environmental Science and Technology, ISME Journal, Environmental Microbiology, mBIO, Proceedings of the National Academy of Sciences, Applied and* *Environmental Microbiology, PLOS One, Journal of Bacteriology, Water Research, Biotechnology and Bioengineering, Water Resources Research, Biodegradation, Environmental Engineering Science, FEMS Microbial Letters, Annals of Microbiology, Bioremediation Journal, Water Environment Research, Canadian J. of Microbiology, Chemical Engineering Science, Journal of Contaminant Hydrology, Groundwater Monitoring and Remediation, Hazardous Waste and Hazardous Materials, J. of Industrial Microbiology, Industrial and Engineering Chemistry, Journal of Chemical Technology and Biotechnology, Journal of Hazardous Materials, Bioprocess Engineering, Water, Air and Soil Pollution.*

Proposal or Panel Review for:National Science Foundation; Environmental Protection Agency; National Academy of Engineering Ford Foundation Fellowships; Department of Energy NABIR program and Genes to Life program; Department of Defense Environmental Security Program; Army Research Office; University of California Water Resources Center; Office of Solid Waste Research, University of Illinois at Urbana-Champaign.

**FUNDED RESEARCH:**

*Microbial Communities that Bioremediate Chemical Mixtures,* (with Jillian Banfield),NIEHS Superfund Basic Research Program, R42 ES004705-19, 4/18-3/22.

*In Situ Remediation of Aqueous Film Forming Foams and Common Co-Contaminants with the Dual Approach of Chemical Oxidation and Bioremediation* (with David Sedlak)***,*** Strategic Environmental Research and Development Program, ER-2715, 3/17-6/20.

*Key Fate and Transport Processes Impacting the Mass Discharge, Attenuation, and Treatment of Poly- and Perfluoroalkyl Substances and Comingled Chlorinated Solvents or Aromatic Hydrocarbons* (with Chris Higgins (PI) at Colorado Sch. Mines and Jennifer Field at Oregon State)***,*** Strategic Environmental Research and Development Program, ER-2720, 3/17-6/20.

*Metabolic Interactions Supporting Effective TCE Bioremediation under Various Biogeochemical Conditions* NIH NIEHS R01 ES024255-01, 8/14-5/19.

*Unraveling functional dynamics and regulation crucial for the stability of an anaerobic ammonium oxidizing (anammox) community via community metatranscriptomics and 16S rRNA sequencing,* Joint Genomic Institute, 11/16-6/18.

*Meta-Omics of Microbial Communities Involved in Bioremediation*, NIEHS Superfund Basic Research Program, R42 ES004705-19, 4/11-4/18.

*Re-Inventing America’s Urban Water Infrastructure* (with Richard Luthy (PI) and David Sedlak (co-PI)) National Science Foundation Engineering Research Center, 6/11-5/20.

*Systems-Level Predictions of Electron Flows in TCE-Dechlorinating, Dehalococcoides Containing Microbial Communities Using Modeling and Emerging Molecular Biology Tools*, National Science Foundation, CBET-1336709, 1/14-12/16.

*Rare Earth Alternative Processing* (w/ Fiona Doyle and Matt Francis) Siemens, Inc., 5/11-12/13.

*Characterization of the Fate and Biotransformation of Fluorochemicals in AFFF-Contaminated Groundwater at Fire/Crash Testing Military Sites*, (with Jennifer Field at Oregon State and David Sedlak at UC Berkeley) Strategic Environmental Research and Development Program, ER-2128, 3/11-12/14.

*Innovative Tools to Measure Transformation of Contaminants.* Chevron Energy Technology Company, 8/07-12/13.

*Application of Microarrays and qPCR to Identify Phylogenetic and Functional Biomarkers Diagnostic of Microbial Communities that Biodegrade Chlorinated Solvents to Ethene* (with Gary Anderson and Eoin Brodie at LBNL and Steve Zinder at Cornell) Strategic Environmental Research and Development Program, ER-1587, 4/07-3/12.

*Molecular Studies of 1,4-Dioxane-utilizing Bacterium Pseudonocardia Dioxanivorans*, (with Rebecca Perales at UC Davis and Yinjie Tang at Washington University) Strategic Environmental Research and Development Program, ER-1417C, 7/08-6/11.

*454-Based Eco-transcriptomics to Identify Key Microbial Consortia Essential for Dehalococcoides- Mediated Bioremediation of Chlorinated Pollutants*. (with Eoin Brodie at LBNL) DOE Joint Genome Institute Laboratory Sequencing Program, 9/07-12/10.

*Whole Genome Sequencing of Pseudonocardia dioxanivorans CB1190, a 1,4-Dioxane-Utilizing and Nitrogen-Fixing Actinomycete.* DOE Joint Genome Institute Community Sequencing Program, 7/07-12/10.

*Application of Comparative Genomics, Transcriptomics and Proteomics to Optimize Microbial Reductive Dehalogenation* (with Gary Anderson at LBNL) NIEHS Superfund Basic Research Program, ES04705-19, 4/06-3/11.

*Anaerobic Microbial Debromination of Polybrominated Diphenyl Ethers (PBDEs).* UC Center for Water Resources, 7/06-6/08.

*Cloning & Evolving the Propane Monooxygenase of Rhodococcus sp. RR1 for N-Nitrosodimethylamine Degradation and Green Chemistry* (with Thomas Wood at Texas A&M), NIEHS Superfund Basic Research Program Supplement, ES04705, 10/06-9/07.

*Quantifying Gene Expression to Predict and Optimize Reductive Dechlorination by Dehalococcoides* spp. National Science Foundation, BES- 05-04244, 5/05-4/09.

*Oxygenase-Catalyzed Biodegradation of Emerging Water Contaminants: 1,4-Dioxane and N-Nitrosodimethylamine* Strategic Environmental Research and Development Program, ER-1417, 4/05-3/09.

*Diagnostic Tools for Performance Evaluation of Innovative In-Situ Remediation Technologies at Chlorinated Solvent Contaminated Sites* (with Michael Kavanaugh at Malcolm Pirnie and others) Environmental Security Technology Certification Program, 8/03-8/07*.*

*Development of Tools for Monitoring in situ Bioremediation* (with Mark Conrad at LBNL) NIEHS Superfund Basic Research Program, ES04705, 4/00-3/06.

*Application of Real-Time PCR with Reverse Transcription for Quantification of Specific Microbial Activity in Complex Communities,* Lawrence Berkeley National Laboratory LDRD, LBNL 6702844, 11/02-10/05.

*Investigation of NDMA Fate and Transport* (with David Sedlak in Env. Engineering and others) WaterReuse Research Foundation, W1267, 5/03-4/05.

*Molecular and Physiological Characterization of Anaerobic Microbial Communities that Reductively Dechlorinate Ethenes,* National Science Foundation, BES-01-04740, 8/01-7/05.

*Bioremediation of Mixed Vapor Phase Contaminants from Soils and Groundwater,* USEPA, 7/01-6/03.

*Investigation of the Use of Stable Isotope Measurements as a Tool for Monitoring in-situ Bioremediation,* UC Toxic Substances Research and Teaching Program, 7/99-6/01.

*Biodegradation and Impact of Fuel Oxygenates on the Bioattenuation of BTEX Compounds in Pollutant Mixtures,* UC Toxic Substances Research and Teaching Program, 7/98-6/00.

*Microbial Degradation of Hazardous Contaminant Mixtures* National Science Foundation, BES 94-57246, 6/94-7/00.

*Thermally Enhanced Remediation of Subsurface Contamination* (with Kent Udell in Mechanical Engineering) NIEHS Superfund Basic Research Program, 4/92-3/00.

*Natural Attenuation of Chlorinated Hydrocarbons at Alameda Point,* (with Kent Udell in Mechanical Engineering and Yoram Rubin in Env. Eng.) U.S. Dept. of Navy, 1/97-10/99.

*Field Evaluation of Intrinsic Bioremediation at Alameda Naval Air Station*,(with James Hunt in Env. Engineering) U.S. Dept. of Navy, 10/95-9/98.

*Biodegradation of Polynuclear Aromatic Hydrocarbons by Thermophilic Bacteria,* UC Toxic Substances Research and Teaching Program, 6/97-5/98.

*Evaluating In Situ Bioremediation* Chevron Research and Technology Co., 10/94-2/97.

*Biological Transformation of Polynuclear Aromatic Hydrocarbons* Chevron Research and Technology Co., 10/94-2/97.

*Biotransformation of Gas-Phase Halogenated Solvents in Unsaturated Porous Media* (with James Hunt in Civil Engineering, Mary Firestone in Soil Science) NIEHS, 4/92-3/96.

*In Situ Reduction of Acid Rock Drainage* (with James Hunt in Env. Engineering, Fiona Doyle in Mineral Science Engineering) UC Toxics Substances Research, 8/94-7/95.

*A Comparison of Product Toxicity from the Cometabolic Transformation of Halogenated Organics by Several Monooxygenase Cultures,* Department of Energy, 9/92-9/94.

**UNIVERSITY SERVICE (selected):**

*Co-Chair,* UC Berkeley International Engagement Policy Taskforce, (2/9-present)

*Co-Chair,* UC Berkeley Signature Initiatives Implementation Steering Committee, 8/18-present.

*Member,* UC Berkeley Council of Deans, 8/17- present.

*Member,* UC Berkeley Board of Trustees, 8/17- present.

*Co-Chair,* UC Berkeley Strategic Academic Planning Steering Committee, 11/17-present.

*Chair,* UC Berkeley Academic Senate, 8/17-8/18.

*Member,* UC Systemwide Academic Council,8/17- 8/18.

*Member,* UC Systemwide Assembly, 8/17- 8/18.

*Member,* Coordination of Admissions Board,3/16- present.

*Co-Chair,* University Athletics Board, 3/16-8/18 (co-chair 8/17-8/18).

*Chair,* Divisional Council,UC Berkeley Academic Senate, 8/17-8/18.

*Deputy Director,* NIEHS Superfund Basic Research Center, UCB Campus, 10/15-present.

*Member,* Nominating Committee, College of Engineering, 12/15-present.

*Member*, Advancing Faculty Diversity Steering Committee, College of Eng. 1/18-6/19.

*Executive Vice Chancellor & Provost Search Committee,* UC Berkeley Campus, 5/17-8/17.

*Task Force for* Self-Supporting Graduate Professional Degree Programs*,* 11/16-12/17.

*Task Force for Intercollegiate Athletics,* 9/16-7/17.

*Vice-Chair,* UC Berkeley Academic Senate, 3/16-8/17.

*Faculty Budget Working Group,* UC Berkeley Academic Senate, 7/16-6/17.

*Chair,* Graduate Council,UC Berkeley Academic Senate, 7/14-3/16 (member 7/13-6/14).

*Space and Capital Improvements Committee,* UC Berkeley Campus, 7/14-8/16.

*Chair,* Faculty Search Committee, Civil and Environmental Engineering Dept., 7/14-5/15.

*Campus Ad Hoc Tenure or Promotion Review Committees*, UC Berkeley Campus, 1999, 2001, 2004, 2005, 2006, 2007, 2008, 2015.

*Executive Vice Chancellor & Provost Search Committee,* UC Berkeley Campus, 8/13-2/14.

*Chair,* *Faculty Search Committee*, Civil and Environmental Engineering Dept., 7/13-3/14.

*Dean Search Committee,* UC Berkeley College of Chemistry, 10/12-3/13.

*Chair,* Civil and Environmental Engineering Dept., 7/07-7/12.

*M.Eng. Executive Steering Committee, College of Engineering,* 12/11-7/12.

*Search Committee for QB3 Director,* UC Berkeley Campus, 6/09-12/09.

*Search Committee for Pacific Earthquake Engineering Research Center Director,* College of Engineering, 5/08-9/08.

*Chair of the Faculty of the College of Engineering*, 4/06-9/07.

*Dean Search Committee*, UC Berkeley College of Engineering, 2007

*Chair, Dean Appraisal Committee*, UC Berkeley Campus, 2007

*Vice Chair for Academic Instruction,* Civil and Environmental Engineering Dept., 7/06-7/07.

*ERSO Advisory Board,* College of Engineering, 6/05-6/09.

*Vice Provost Search Committee*, UC Campus, 2006

*Chair, Graduate Admissions,* Civil Engineering Dept., 1/05-6/06.

*Advisory Committee for the Institute for Environmental Science and Engineering,* UC Berkeley Campus, 7/00-present.

*Steering Committee for the UC Berkeley Superfund Basic Research Program,* UC Berkeley Campus, 3/01-present.

*Society of Women Engineers*, Faculty Advisor, UC Berkeley Chapter, 6/99-7/07

*Chair, University Committee on Educational Policy,* UC Systemwide, 7/01-7/04.

*Academic Planning Council,* UC Office of the President, 7/03-7/04.

*Academic Council of the Systemwide Senate,* UC Systemwide, 7/03-7/04.

*Assembly of the Systemwide Faculty Senate,* UC Systemwide, 7/03-7/04.

*UC in Washington DC Oversight Committee* UC Systemwide, 7/02-3/04.

*Universitywide Workload Implementation Task Force* UC Systemwide, 7/03-7/04.

*Universitywide Task Force on AP Exams* UC Systemwide, 1/03-6/05.

*Steering Committee for Budget Planning,* UC Berkeley Campus, 10/02-8/03.

*Task Force for USA Patriot Act,* UC Berkeley Campus, 10/02-8/03.

*Chair, Committee on Educational Policy,* UC Berkeley Academic Senate, 7/00-8/03.

*Divisional Council,* UC Berkeley Academic Senate, 7/01-8/03.

*Space and Capital Improvements Committee,* UC Berkeley Campus, 7/00-8/03.

*Registration and Enrollment Policy Committee,* UC Berkeley Campus, 11/01-8/03.

*Universitywide Task Force on Faculty Instructional Activities* UC Systemwide, 10/02-7/03.

*Strategic Planning Committee,* UC Berkeley Campus, 4/01-9/02.

*Education Financing Model Steering Committee*, UC Systemwide, 10/01-9/02.

*Steering Committee for the Western Association of Schools and Colleges Accreditation Process,* UC Berkeley Campus, 9/01-9/02.

*Chair, Environmental Engineering and Energy and Resources Committee*, UC Berkeley College of Engineering, 7/96-7/04 (Chair in 2003-7/04 only)

*Chair, Search Committee for Director of the Institute for Environmental Science and Engineering,* UC Berkeley Campus, 11/01-2/02.

*Committee on Enrollment Growth,* UC Berkeley Campus, 1/01-7/01.

*Graduate Admissions and Affirmative Action Officer,* Civil Engineering Department, 6/99-7/01.

*Task Force on Lower Division Curriculum*, UC Berkeley College of Engineering, 12/00-6/01

*Dean Search Committee*, UC Berkeley College of Engineering, 1/00-7/00

*Chair, Hazardous Waste Management Committee*, UC Berkeley Campus, 7/97-6/00

*Environmental Health and Safety Policy Committee*, UC Berkeley Campus, 7/98-6/00

*Undergraduate Admissions Coordination Board*, UC Berkeley Campus, 7/95-6/96

*Advisory Committee for the Environmental Engineering and Health Sciences Laboratory*, UC Berkeley Campus, 7/92-6/96.

**Patent:**

#5,139,682 -- Zeolite Enhanced Organic Biotransformation, with P. L. McCarty.

**TEXTBOOK**

Nazaroff, W. W., and L. Alvarez-Cohen. 2001. *Environmental Engineering Science*, 690 pg. textbook, John Wiley and Sons, Collegiate Division, ISBN 0-471-14494-0.

**PEER REVIEWED PUBLICATIONS:**

1. Lan, Y., B. Stenuit, G. L. Rosen, J. B. Hughes, L. Alvarez-Cohen and C. M. Sales. 2019. “Effects of historical 2,4,6-trinitrotoluene (TNT) contamination and periodic mechanical mixing on soil microbial consortia and remediation activity”, submitted.
2. **Sales, C.M.,** W. Q. Zhuang, P. B. Gedalanga,A. Grostern, **S. Mahendra**, R. E. Parales, and L. Alvarez-Cohen. 2019. “The genome of *Pseudonocardia dioxanivorans* CB1190, a metabolically versatile, autotrophic, environmental contaminant degrader”,submitted.
3. Escalas, A., L. Hale, J. Voordeckers, Y. Yang, M. Firestone, L. Alvarez-Cohen and J. Zhou. 2019. "Microbial Functional Diversity and Ecosystem Functioning: From Concepts to Applications" in press.
4. **Lawrence, J**, R. Keren, **E. Antell,** L. Alvarez-Cohen**, L. Zhou** and K. Yu. 2019. “Synergistic and competitive interactions among anaerobic ammonium-oxidizing, denitrifying, and dissimilatory nitrate-reducing bacteria”, submitted.
5. Keren, R., J.E. **Lawrence,** W. Zhuang, D. Jenkins, J. F. Banfield, L. Alvarez-Cohen, **L. Zhou,** and K. Yu. 2019. “Increased Replication Rates of Dissimilatory Nitrate-Reducing Bacteria Lead to Decreased Anammox Bioreactor Performance”, submitted.
6. **Mao, X,** B. Stenuit, J. Tremblay, K. Yu, S. G. Tringe, and L. Alvarez Cohen. 2019. “Structural Dynamics and Transcriptomic Analysis of *Dehalococcoides mccartyi* within a TCE-Dechlorinating Community in a Completely Mixed Flow Reactor”, *Water Research*, in press.
7. Wu, L., D. Ning, B. Zhang, Y. Li, P. Zhang, X. Shan, Q. Zhang, M. Brown, Z. Li, J.D. Van Nostrand, F. Ling, N. Xiao, J. Vierheilig, G.F. Wells, Y. Yang, Y. Deng, Q. Tu, A. Wang, Global Water Microbiome Consortium, T. Zhang, Z. He, J. Keller, P.H. Nielsen, P.J.J. Alvarez, C.S. Criddle, M. Wagner, J.M. Tiedje, Q. He, T.P. Curtis, D.A. Stahl, L. Alvarez-Cohen, B.E. Rittmann, X. Wen, and J. Zhou. 2019. “Global Diversity and Biogeography of Bacterial Communities in Wastewater Treatment Plants”, *Nature Microbiology*, in press.
8. Yu, K., S. Yi, B. Li, F. Guo, Z. Wang, X. Peng, Y. Wu, L. Alvarez-Cohen, and T. Zhang. 2019. “An integrated meta-omics approach reveals synergistic interactions in a bisphenol- A-degrading microbial community”, *Microbiome*, **7** (16) DOI: 10.1186/s40168-019-0634-5.
9. Gu, Zaoli, Y. Li, Y. Yang, S. Xia, S. W. Hermanowicz, and L. Alvarez-Cohen. 2018. "Inhibition of anammox by sludge thermal hydrolysis and metagenomic insights", [*Bioresource Technology*](https://www.sciencedirect.com/science/journal/09608524)**,**  [**270**](https://www.sciencedirect.com/science/journal/09608524/270/supp/C): 46-54. doi:10.1016/j.biortech.2018.08.132.
10. **Ding, C.**, L. Alvarez-Cohen, and J. He. 2018. “Growth of Dehalococcoides mccartyi Strain 195 in an Autotrophic Consortium Producing Limited Acetate”, *Biodegradation*, **29** (5): 487-498. DOI: 10.1007/s10532-018-9846-9.
11. Yi, S., **K. C. Harding-Marjanovic, E. F. Houtz, Y. Gao, J. Lawrence,** R. Nichporucu, A. Iavarone, W. Q. Zhuang, M. Hansen, J. A. Field, D. L. Sedlak, and L. Alvarez-Cohen. 2018. “Biotransformation of AFFF Component 6:2 Fluorotelomer Thioether Amido Sulfonate Generates 6:2 Fluorotelomer Thioether Carboxylate under Sulfate-Reducing Conditions”, *Environmental Science and Technology Letters*, **5** (5):283 -288. DOI:10.1021/acs.estlett.8b00148
12. Lavy, A., **R. Keren**, K. Yu, B. C. Thomas, L. Alvarez-Cohen, J. F. Banfield, M. Ilan. 2018. “A novel Chromatiales bacterium is a potential sulfide oxidizer in multiple orders of marine sponges”, *Environmental Microbiology*, **20** (2): 800-814. DOI: 10.1111/1462-2920.14013
13. **Men, Y.,** K. Yu, J. Bælum, Y. Gao, J. Tremblay, E. Prestat, B. Stenuit, S. G. Tringe, J. Jansson, T. Zhang, and L. Alvarez-Cohen. 2017. “Metagenomic and metatranscriptomic analyses reveal community structure and dynamics of a TCE-dechlorinating community enriched without exogenous cobalamin”, *Applied and Environmental Microbiology*, **83** (8): e03508-16. doi:10.1128/AEM.03508-16
14. **Mao, X.,** R. Oremland, T. Liu, **S. Gushgari, A. Landers, S. Baesman,** and L. Alvarez-Cohen. 2017. “Acetylene fuels TCE reductive dechlorination by defined *Dehalococcoides/Pelobacter* consortia”, *Environmental Science and Technology*, **51**: 2366-2372. doi: 10.1021/acs.est.6b05770
15. **Mao, X., A. Polasko,** Lisa Alvarez-Cohen. 2017. “The Effects of sulfate reduction on TCE dechlorination by *Dehalococcoides*-containing microbial communities”, *Applied and Environmental Microbiology*, **83** (8) e03384-16. doi:10.1128/AEM.03384-16
16. Maes, S., W.Q.Zhuang, K. Rabaey, L. Alvarez-Cohen, and and T. Hennebel. 2017. “[Concomitant Leaching and Electrochemical Extraction of Rare Earth Elements from Monazite](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=5FHDTSaPnI4UXKcP1eR&page=1&doc=4)” *Environmental Science and Technology*, **51** (3): 1654-1661. DOI: 10.1021/acs.est.6b03675
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**Selected PRESENTATIONS, Proceedings, Reports:**

1. Alvarez-Cohen, L. 2018. “Sequential metagenomic analyses reveal dynamics of anaerobic ammonium oxidization communities”. International Microbial Ecology Conference, Guangzhou China *Plenary Speaker*.
2. Alvarez-Cohen, L. 2018. “Lessons learned from meta-omics analyses of anammox communities”. Tongji University, Celebration of Honorary Professor, *Invited Speaker*.
3. Alvarez-Cohen, L. 2018. “Discovery of causes of stabilities/crashes: time course metagenomic analyses of an anaerobic ammonium oxidization reactor”. Tongji University, Shanghai, China *Invited Speaker*.
4. Cook, E. K. 2018 “Heat-activated persulfate in situ chemical oxidation (ISCO) of co-contaminants 1,4-dioxane and perfluorocarboxylic acids (PFCAs)”. Groundwater Resource Association Conference: Western Groundwater Conference. Sacramento, California. September 26, 2018.
5. Higgins, C. P., A. Maizel, R. Garcia, J. A. Field, C. Olivares, L. Alvarez-Cohen, C. Schaefer. 2018. “Key Fate and Transport Processes Impacting the Mass Discharge, Attenuation, and Treatment of Poly- and Perfluoroalkyl Substances and Comingled Chlorinated Solvents or Aromatic Hydrocarbons”. SERDP-ESTCP Ann Meeting, Washington DC, Nov. 27-30, 2018.
6. Olivares, C.I., Cook, E., Sun, Y., Yi, S., Sedlak, D., Alvarez-Cohen, L. 2018. “Combined persulfate chemical oxidation and bioremediation as in-situ remediation strategies for AFFF components and co-contaminants”.  Water Gordon Conference. Innovations at the Intersections of the Aquatic Sciences: Water Quality, Health, Materials, Technologies. June 24-49, 2018. Holderness, NH, US
7. Alvarez-Cohen, L. 2018. “The past and future of emerging contaminants, an ongoing problem?”, 1,000 Talents Scholar Meeting, Tongji University, Shanghai, China. *Invited Speaker.*
8. Alvarez-Cohen, L. 2018. “Biology of emerging contaminants, do they *really* eventually emerge?”, Emerging Contaminants Summit, Denver, Colorado. *Plenary Speaker*.
9. Alvarez-Cohen, L. 2017. “Materials exchanges and interactions within microbial communities performing useful environmental engineering processes for water quality”, International Water Assoc. Microbial Ecology Conference, Beijing China. *Plenary Speaker*.
10. Alvarez-Cohen, L. 2017. “Maximizing anammox productivity and recovery using microbial community analyses”, 15th World Conference on Anaerobic Digestion, Beijing China. *Plenary Speaker*.
11. Yi, S., E.F. Houtz, K.C. Harding, J.A. Field, D.L. Sedlak, L. Alvarez-Cohen. “Biotransformation of 6:2 Fluorotelomer Thioether Amido Sulfonate under Nitrate and Sulfate-Reducing Conditions”. SERDP-ESTCP Annual Meeting, Washington DC, Nov. 28-30, 2017.
12. Emily K Cook, Yilu Sun, Christopher I. Olivares, S. Yi, D.L. Sedlak, L. Alvarez-Cohen. In situ remediation of aqueous film forming foams and common co-contaminants with the dual approach of chemical oxidation and bioremediation. SERDP-ESTCP Annual Meeting, Washington D.C., Nov 28-30, 2017.
13. Alvarez-Cohen, L. 2017. “Never Say Never: Biotransformation of Emerging Water Contaminants”, Tongji University 110th Anniversary, Tongji University, Shanghai, China. *Plenary Speaker.*
14. Alvarez-Cohen, L. 2017. “Anaerobic Microbial Communities Utilized in Environmental Engineering”, Peking University, Shenzhen, China. *Invited Speaker.*
15. Keren R., Brisson V., Xinwei, M., Yujie, M., Yu K., Banfield J., and Alvarez-Cohen L. 2017. “Metagenomic analysis of mobile elements and phage in trichloroethene (TCE) dechlorinating communities”, ACS Annual meeting, San Francisco, CA.
16. Cook, E., Troyer, E., Keren, R. and L. Alvarez-Cohen. 2016. “Investigating the biogeochemical interactions involved in simultaneous TCE and Arsenic *in situ* bioremediation”. AGU National Meeting, San Francisco, CA, Nov. 2016.
17. Yi, S., E.F. Houtz, K.C. Harding, J.A. Field, D.L. Sedlak, L. Alvarez-Cohen. Identification of anaerobic biotransformation products of 6:2 fluorotelomer thioamidosulfonate in aqueous film-forming. 252th ACS National Meeting and Exposition, Philadelphia, PA, August 21-25, 2016. (Oral presentation)
18. Sun, M., S. Gushgari, X. Mao, A. Polasko, T. Liu, J. H. Bae, and Alvarez-Cohen L. 2016. “Effects of Geochemical Perturbations on *Dehalococcoides mccartyi*-containing Dechlorinating Consortia”, Superfund 30th Anniversary Annual meeting, Durham, NC.
19. Keren R., Brisson V., Xinwei, M., Yujie, M., Yu K., Banfield J., and Alvarez-Cohen L. 2016. “Metagenomic analysis of mobile elements and phage in trichloroethene (TCE) dechlorinating communities”, Superfund 30th Anniversary Annual meeting, Durham, NC.
20. Alvarez-Cohen, L. 2016. “Sustainable Material Exchanges that Support Anammox Communities for Nitrogen Removal from Wastewater”, 2nd Annual International Membrane Bioreactor Conference, Tongji University, Shanghai, China. *Invited Speaker.*
21. Alvarez-Cohen, L. 2016. “The Sharing Economy of Environmental Microbial Communities”, Tsinghua University, Beijing, China. *Invited Speaker.*
22. Lawrence, J., E. Antell, J. Zhu, and L. Alvarez-Cohen, 2016. “Improvements to the anaerobic ammonium oxidation process through zeolite particle amendments”, 16th International Symposium for Microbial Ecology, Montreal, Canada.
23. Alvarez-Cohen, L. 2016. “Material Exchanges that Enable and Support Sustainable Anaerobic Bioprocessing In Microbial Communities’”, University of Hong Kong, SAR, China. *Invited Speaker.*
24. Alvarez-Cohen, L. 2016. “Material Exchanges that Enable and Support Sustainable Anaerobic Bioprocessing In Microbial Communities’”, Peking University, Shenzhen, China. *Invited Speaker.*
25. Harding-Marjanovic, K. C, E. Houtz, S. Yi, J. Field, D. L. Sedlak, and L. Alvarez-Cohen. 2015. “Biotransformation of fluorotelomer thioether amido sulfonate (Lodyne) in AFFF”. American Chemical Society Annual meeting, San Diego, CA.
26. Mao, X., S. Gushgari, C. Mahandra, S. M. Baesman, R. S. Oremland, and L. Alvarez-Cohen. 2015. “Acetylene can fuel reductive dechlorination of TCE by *Dehalococcoides*/*Pelobacter-*containing microbial consortia”. American Geophysical Union annual meeting, San Francisco, CA.
27. Alvarez-Cohen, L. 2015. “The ‘Sharing Economy’ Practiced by Environmental Microbial Communities involved in Wastewater Treatment and Environmental Remediation”, EWRI ASCE Simon W. Freese Environmental Engineering Seminar, Austin Texas. *Invited Speaker.*
28. Alvarez-Cohen, L. 2015. “Microbes Rule the World and Practice the Ultimate ‘Sharing Economy’”, 4th Annual Civil and Environmental Distinguished Lecture, Berkeley CA. *Invited Speaker.*
29. Alvarez-Cohen, L. 2015. “Environmental Microbial Communities – the Ultimate Practitioners of the ‘Sharing Economy’”, 12th Annual Microbial Sciences Initiative, Harvard MA. *Invited Speaker.*
30. Gushgari, S and L. Alvarez-Cohen. 2015. “Arsenic/TCE co-contamination and its effect on trichloroethene dehalogenation*.*” The 28th Annual Meeting of the Superfund Research Program. Puerto Rico.
31. Mao X., Polasko A. and L. Alvarez-Cohen. 2015. “A systems level approach to modeling the effects of environmental factors on the dechlorination kinetics of *Dehalococcoides*-containing microbial consortia”. 115th General Meeting, American Society for Microbiology, Baton Rouge, LA.
32. Weathers, T. S., K. C.  Harding, L. Alvarez-Cohen, C. P. Higgins, and J. O. Sharp. 2015 “Perfluoroalkyl acid exposure elicits diverse responses from subsurface microorganisms associated with chlorinated solvent biodegradation”. RemTec Annual National Conference, Westminster CO, 2015.
33. Byrne, A.P., R. N. Montagnolli, J. E. Lawrence, S. Yi, K. C. Harding, and L. Alvarez-Cohen. 2015. “Impact of Carbon Source on the Aerobic Biotransformation of Perfluorocarboxylic Acid Precursors in Fire-Fighting Foams”. RemTec Annual National Conference, Westminster CO, 2015.
34. Gushgari, S and L. Alvarez-Cohen. 2014. “Effects of ferrous and ferric iron on dechlorination kinetics of trichloroethene to ethene by *Dehalococcoides mccartyi.*” The 27th Annual Meeting of the Superfund Research Program. San Jose, CA.
35. Alvarez-Cohen, L. 2014. “Never Say Never in Microbiology: Biodegradation of Emerging Groundwater Contaminants”, 15th International Symposium for Microbial Ecology, Seoul, Korea. *Invited Speaker.*
36. Weathers, T. S., K. C. Harding, L. Alvarez-Cohen, C. P. Higgins, and J. O. Sharp. 2015. “Perfluoroalkyl acids inhibit TCE dechlorination by repressing *Dehalococcoides* growth”, 247th American Chemical Society National Annual Meeting, Boston, MA.
37. Alvarez-Cohen, L. 2014. “Material Exchanges that Enable And Support Sustainable Anaerobic Bioprocessing In Microbial Communities”, International Water Association 2014 Science Summit for Urban Water. Harbin, China. *Invited Speaker.*
38. Alvarez-Cohen, L. 2014. “Microbial Communities Involved with Anaerobic Bioremediation”, Tongji University, Shanghai, China. *Invited Speaker.*
39. Alvarez-Cohen, L. 2014. “The Material Exchanges in Microbial Communities that Support in situ Bioremediation”, Tsinghua University, Beijing, China. *Invited Speaker.*
40. Alvarez-Cohen, L. 2014. “Bioremediation then and now: where we've been and where we're going”, Groundwater Resources Association Emerging Contaminants Symposium, Concord, CA. *Invited Speaker.*
41. Yi, S., E.F. Houtz, K.C. Harding, J.A. Field, D.L. Sedlak, L. Alvarez-Cohen. 2014. “Detection and identification of anaerobic biotransformation products of polyfluorochemicals in aqueous film-forming foams”, 248th American Chemical Society National Annual Meeting, San Francisco, MA.
42. Polasko A., X. Mao, L. Alvarez-Cohen. 2014. “Effects of Sulfate and Sulfide on Dechlorination by *Dehalococcoides mccartyi* 195 alone and in co-culture with *Desulfovibrio vulgaris* Hildenborough”. American Geophysical Union annual meeting, San Francisco, CA.
43. Men, Y., K. Yu, J. Bælum, J. Tremblay, E. Prestat, B. Stenuit, S.G. Tringe, J. Jansson, T. Zhang, and L. Alvarez-Cohen. 2014 “Using meta-omic tools to investigate ecological roles of supportive microorganisms in *Dehalococcoides*-containing microbial communities”, 15th International Symposium for Microbial Ecology, Seoul, Korea.
44. Men, Y., E. C. Seth, S. Yi, T. S. Crofts, R. H. Allen, M. E. Taga, and L. Alvarez-Cohen. 2014. “Deciphering corrinoid salvaging in Dehalococcoides mccartyi-containing microbial communities”. Friedrich Schiller University, Jena, Germany.
45. Men, Y., Tu,Q., Wu, L.Y., Zhou, A., Zhou, J. and L. Alvarez-Cohen. 2014. “SNP detection in syntrophic co-cultures of *Dehalococcoides mccartyi* 195 and *Desulfovibrio vulgaris* Hildenborough”, 114th General Meeting, American Society for Microbiology, Boston, MA.
46. Yi, S., Houtz, E.F., Harding, K.C., Field, J., Sedlak, D. L. and L. Alvarez-Cohen. 2014. “Anaerobic Biotransformation of 6:2 Fluorotelomer Thioamidosulfonate in Aqueous Film-Forming Foams”. California Groundwater Resources Association Symposium on Groundwater Contaminants, Concord, CA.
47. Harding, K., Houtz, E.F., Yi, S., Sedlak, D. L. and L. Alvarez-Cohen. 2014. “Aerobic biotransformation of 6:2 fluorotelomer thioamidosulfonate in aqueous film-forming foams”. California Groundwater Resources Association Symposium on Groundwater Contaminants, Concord, CA.
48. Zhuang W.-Q., Yi S., Markus, B., Conrad M.E., Tang Y.J. and L. Alvarez-Cohen. 2013. “The incomplete Wood-Ljungdahl pathway of *Dehalococcoides mccartyi* enables an unconventional C1 metabolism important for mutualistic reductive dehalogenation.” The 26th Annual Meeting of the Superfund Research Program. Baton Rouge, LA.
49. Zhuang W.-Q., Gui Q., Yi S., You L., Tang Y.J., Wall J.D. and L. Alvarez-Cohen. 2013. “Identification of in vivo functions of two R-type metabolic synthases from *Dehalococcoides mccartyi* 195 using *Desulfovibrio vulgaris* Hildenborough as a host.” 113th General Meeting, American Society for Microbiology, Denver, CO.
50. Men Y., Seth E.C., Taga M.E., Allen R.H. and L. Alvarez-Cohen. 2013. “Corrinoid salvaging and remodeling by Dehalococcoides mccartyi strain 195 in a defined consortium containing corrinoid-producer Pelosinus fermentans strain R7.” 113th General Meeting, American Society for Microbiology, Denver, CO.
51. Stenuit B., Tremblay J., Mao X., Men Y., Tringe S.G. and L. Alvarez-Cohen. 2013. “Molecular systems synecology of TCE-dechlorinating microbial communities using stable isotope probing combined with Illumina sequencing techniques.” Joint Genome Institute (JGI) Genomics of Energy & Environment Meeting. 8th Annual DOE JGI User Meeting. Walnut Creek, CA.
52. Alvarez-Cohen, L. 2013. “Systems Levels Approaches to Characterize Chlorinated Solvent Degrading Communities”, The Feng Lecture, University of Massachusetts, Amherst MA. *Invited Speaker.*
53. Mao X., Stenuit B., Polasko A. and L. Alvarez-Cohen. 2013. “Structure and global gene expression of *Dehalococcoides mccartyi* in a TCE dechlorinating community within a completely mixed flow reactor.” The 26th Annual Meeting of the Superfund Research Program. Baton Rouge, LA.
54. Men Y., Tremblay J., Prestat E., Baelum J., Stenuit B., Tringe S.G., Jansson, J.R. and L. Alvarez-Cohen 2013. “Metagenomic and metatranscriptomic analysis on TCE-dechlorinating microbial communities enriched under different exogenous cobalamin conditions.” Joint Genome Institute (JGI) Genomics of Energy & Environment Meeting. 8th Annual DOE JGI User Meeting. Walnut Creek, CA.
55. Alvarez-Cohen, L. 2013. “Life lessons from -omics based research in bioremediation”, VI Symposium of Applied Microbiology, Rio Claro, Sao Paulo, Brazil. *Invited Keynote Speaker.*
56. Alvarez-Cohen, L. 2013. “From Individuals to Community: A Molecular-Based Systems Approach to Optimizing Bioremediation”, 113th General Meeting, American Society for Microbiology, Denver CO. *Invited Speaker.*
57. Alvarez-Cohen, L. 2013. “Bioremediation then and now: where we've been and where we're going”, RemTec Annual National Conference, Westminster CO. *Invited Speaker.*
58. Alvarez-Cohen, L. 2013. “Systems Levels Approaches to Understanding Bioremediation”, The Ryckman Lecture, Washington University, St. Louis MO. *Invited Speaker.*
59. Alvarez-Cohen, L. 2012. “From Individuals to Community: A Molecular-Based Systems Approach to Understanding Bioremediation”, Superfund Research Program 25th Anniversary Celebration, NIEHS, Raleigh NC. *Invited Speaker.*
60. Men, Y. EC Seth, S Yi, RH Allen, ME Taga, and L Alvarez-Cohen. 2012 “The production and interspecies transfer of corrinoids in dechlorinating microbial communities containing *Dehalococcoides*”, Superfund Research Program 25th Anniversary Celebration, NIEHS, Raleigh NC.
61. Stenuit, B, Tremblay, J, Mao, X, Men, Y, Tringe, SG and L Alvarez-Cohen. 2012. “Insights into the functional organization of TCE-dechlorinating microbial communities using stable isotope probing combined with targeted Illumina sequencing of multiplex 16S rRNA amplicon libraries”, Superfund Research Program 25th Anniversary Celebration, NIEHS, Raleigh NC.
62. C. E. Devine, T. Buscheck, A. Gilpin, M. Lafferty, B. Stenuit, L. Alvarez-Cohen, P. Philp, T. Kuder. 2012. “Biodegradation of 1,4-Dioxane: Field and Laboratory Evaluation using Compound-Specific Isotope Analysis, Molecular Biological Tools and Microcosm Studies”. Battelle Annual Conference on Remediation of Chlorinated Compounds, Monterey, CA.
63. Alvarez-Cohen, L. 2012. “A Systems and Molecular-Based Approach to Bioremediation of Chlorinated Solvents”. University of Oklahoma, *Invited Speaker.*
64. Stenuit, B, X.W. Mao, Y. Men and Lisa Alvarez-Cohen. 2012. “Identification of active fermenters and hidden microbial partnerships in TCE-dechlorinating microbial communities using DNA-based and RNA-based stable isotope probing”. 112th General Meeting, American Society for Microbiology, San Francisco, CA.
65. Mao, XW and Lisa Alvarez-Cohen. 2012. “Effects of Acetate on the Growth and TCE Degradation of Syntrophic co-culture *Dehalococcoides ethenogens* 195 and *Syntrophomonas wolfei*”. 112th General Meeting, American Society for Microbiology, San Francisco, CA.
66. Brisson, V. L., K.A. West, P. K. H. Lee, and L. Alvarez-Cohen. 2012. “Evaluation of Microarray Specificity for Detecting *Dehalococcoides* Genes”. 112th General Meeting, American Society for Microbiology, San Francisco, CA.
67. Alvarez-Cohen, L. 2012. “From Individuals to Community: Application of Molecular Tools to Understand Environmental Microbial Communities Participating in Bioremediation”, Asia-Pacific Chemistry and Chemical Engineering Congress, Singapore. *Invited Keynote Speaker.*
68. Alvarez-Cohen, L. 2012. “Plasticity in salvaging B12 cofactors for reductive dechlorination by organohalide-respiring *Dehalococcoides*”, Indo-American Frontiers of Engineering symposium of the National Academies, Washington DC.
69. Alvarez-Cohen, L. 2011. “Biodegradation of Emerging and Conventional Water Contaminants”, International Summit Forum for Urban Water, Harbin China. *Invited Speaker.*
70. Harding, K.A., P.K.H. Lee, T. Buscheck, M. Bill, M. Conrad, and L. Alvarez-Cohen. 2012. “Enrichment Factors for the Carbon Isotope Fractionation of TCE by *Dehalococcoides* Under a Variety of Growth Conditions and Implications for Field Isotope Data”. Battelle Annual Conference on Remediation of Chlorinated Compounds, Monterey, CA.
71. Alvarez-Cohen, L. 2011. “Environmental Microbiology: Microorganisms Rule the World and Eat Much of Our Junk”, University of Illinois Urbana Champaign Vern Snoeyink Distinguished Lecture. *Invited Speaker.*
72. Alvarez-Cohen, L. 2011. “From Individuals to Community: A Systems Approach to Understanding Bioremediation of Chlorinated Solvents”, University of Illinois Urbana Champaign Civil and Environmental Engineering Department. *Invited Speaker.*
73. Place, B. J., E. Houtz, D. Sedlak, L. Alvarez-Cohen and J. Field. 2011. Determination of the Fluorochemical Components of Aqueous Film Forming Foams (AFFF) Used in Military Firefighting”. Partners in Environmental Technology Symposium and Workshop, Washington DC.
74. Men, Y., E. Dirks, S. Yi, S. H. Zinder, M. E. Taga, and L. Alvarez-Cohen. 2011. “The Effects of Cobalamin and Methanogenesis on TCE-dechlorinating Enrichments”. 111th General Meeting, American Society for Microbiology, New Orleans, LA.
75. Mao, X, P. Pornwongthong and L. Alvarez-Cohen. 2011. “Syntrophic Degradation of TCE by co-culture *Dehalococcoides ethenogenes* 195 and *Syntrophomonas wolfei* with different electron donors”. 111th General Meeting, American Society for Microbiology, New Orleans, LA.
76. Sales,C.M., A. Grostern, S. Mahendra, R.E. Parales and L. Alvarez-Cohen. 2011. The genome sequence of *Pseudonocardia dioxanivorans strain* CB1190. 111th General Meeting, American Society for Microbiology, New Orleans, LA.
77. Grostern, A., C.M. Sales, W. Zhuang, O. Erbilgin, R.E. Parales, S. Mahendra and L. Alvarez-Cohen. 2011. Towards a genetic and biochemical understanding of bacterial 1,4-dioxane metabolism. 111th General Meeting, American Society for Microbiology, New Orleans, LA.
78. Zhuang, W., C.M. Sales, A. Grostern, X.Y. Feng, Y.J. Tang and L. Alvarez-Cohen. 2011. Demonstration of C2 compound assimilation pathways in *Pseudonocardia dioxanivorans* CB1190 by using 13C isotopic tracer analysis. 111th General Meeting, American Society for Microbiology, New Orleans, LA.
79. Alvarez-Cohen, L. 2010. “Application of advanced molecular tools to optimize bioremediation of environmental contaminants.” Tongji University, Shanghai, China. *Invited Speaker.*
80. Grostern, A., C.M. Sales, S. Mahendra, and L. Alvarez-Cohen, 2010. “Genome assembly of the 1,4-dioxane degrading *Pseudonocardia dioxanivorans* strain CB1190”, 13th International Symposium for Microbial Ecology, Seattle, WA.
81. Lee, P. K. H., D. Cheng, P. Hu, K. A. West, E. L. Brodie, G. L. Andersen, S. H. Zinder, J. He, and L. Alvarez-Cohen, 2010. “Querying the genomes of unsequenced *Dehalococcoides* strains via a genus-wide microarray”, 13th International Symposium for Microbial Ecology, Seattle, WA.
82. Grostern, A., C.M. Sales, S. Mahendra, and L. Alvarez-Cohen, 2010. “A Genome-enabled investigation of 1,4-dioxane metabolism by the bacterium *Pseudonocardia* *dioxanivorans* strain CB1190”, Partners in Environmental Technology Symposium and Workshop, Washington DC.
83. Mao, X.W., Men, Y., K. and L. Alvarez-Cohen, 2010. “Development of a chemostat reactor to study TCE dechlorination by *Dehalococcoides*”, Partners in Environmental Technology Symposium and Workshop, Washington DC.
84. Alvarez-Cohen, L., 2010. “Biodegradation of Fire Retardants”, 110th general meeting of American Society for Microbiology, San Diego, CA. *Invited Speaker.*
85. Harding, K., A. Nemir, K. A. West, M. Conrad, and L. Alvarez-Cohen, 2010. “Effects of Vinyl Chloride on the Differential Gene Expression and Stable Carbon Isotope Fractionation of *Dehalococcoides ethenogenes* strain 195”, 110th general meeting of American Society for Microbiology, San Diego, CA.
86. West, K. A., P. K. H. Lee,P. Hu, S. H. Zinder, G. L. Andersen, and L. Alvarez-Cohen, 2010. “Genome and Transcriptome Analyses of Unsequenced *Dehalococcoides* Strains in a Dechlorinating Enrichment Culture Using a Genus-Wide Microarray”, 110th general meeting of American Society for Microbiology, San Diego, CA.
87. Men, Y., K. Harding, S. Yi, W. Zhuang, G. L. Andersen, S. H. Zinder, M. E. Taga, and L. Alvarez-Cohen, 2010. “Identification of corrinoid-providing supportive microorganisms for *Dehalococcoides* in TCE-dechlorinating enrichment cultures by analytical and molecular tools”, 110th general meeting of American Society for Microbiology, San Diego, CA.
88. Yi, S., W. Q. Zhuang, X. Feng, S. H. Zinder, Y. J. Tang and L. Alvarez-Cohen, 2010. “Exogenous Amino Acid Utilization by *Dehalococcoides ethenogenes* strain 195”, 110th general meeting of American Society for Microbiology, San Diego, CA.
89. Sales, C. M, A. Grostern, S. Mahendra, and L. Alvarez-Cohen, 2010. “Identification of monooxygenases involved in 1,4-dioxane biodegradation by *Pseudonocardia* *dioxanivorans* strain CB1190”, 110th general meeting of American Society for Microbiology, San Diego, CA.
90. Alvarez-Cohen, L., 2009. “Molecular Approaches to Optimize the Biodegradation of NDMA and 1,4-Dioxane.”, Groundwater Resources Association Micropol & Ecohazard 2009 Conference, San Francisco, CA. *Invited Speaker.*
91. Sales, C. M, J. O. Sharp, and L. Alvarez-Cohen, 2009. “Identification of genes involved in propane-enhanced biotransformation of N-Nitrosodimethylamine (NDMA) in two actinomycetes” 109th general meeting of American Society for Microbiology, Philadelphia, PA.
92. Lee, P. K. H., N. C. VerBerkmoes, G. L. Anderson, S. H. Zinder and L. Alvarez-Cohen, 2009. “Transcriptomic and proteomic analyses of *Dehalococcoides* *ethenogenes* Strain 195 under nitrogen limitation” 109th general meeting of American Society for Microbiology, Philadelphia, PA.
93. Yi, S., W. Zhuang, S. H. Zinder, J.D. Keasling, Y.J. Tang and L. Alvarez-Cohen, 2009. “Carbon Metabolism in “*Dehalococcoides ethenogenes*”strain 195”, 109th general meeting of American Society for Microbiology, Philadelphia, PA.
94. Men, Y., K. Harding, H. Feil, G. L. Anderson, S. H. Zinder and L. Alvarez-Cohen, 2009. “Application of Molecular and Analytic Tools to Track Enrichment of Reductive Dechlorination Cultures from a TCE Contaminated Groundwater Site”, 109th general meeting of American Society for Microbiology, Philadelphia, PA.
95. Alvarez-Cohen, L., 2008. “Academics as a Career for Environmental Engineers”, Invited Panelist, International Water Association Young Water Professionals International meeting, Berkeley, CA. *Invited Speaker.*
96. Alvarez-Cohen, L., 2008. “Making the case for Civil and Environmental Engineering within the competitive Engineering Research Environment”, Invited Speaker and Panelist, American Society of Civil Engineering Annual Chairs meeting, Charlotte, NC. *Invited Speaker.*
97. Alvarez-Cohen, L., 2008. “How Bioremediation can be Optimized using Cutting-Edge Molecular Tools”, California Department of Toxics Substances Control, Sacramento, CA. *Invited Speaker.*
98. Alvarez-Cohen, L., 2008. “From Individuals to Community: Molecular Tools Shed Lights into the Environmentally Relevant Organisms”, Invited Seminar, University of Southern California, Los Angeles, CA. *Invited Speaker.*
99. Alvarez-Cohen, L., 2008. “Combining Transcriptomics with Proteomics for Analysis of Microbial Isolates and Communities”, Tsinghua University, Beijing, China. *Invited Speaker.*
100. Alvarez-Cohen, L., 2008. “Application of Cutting-Edge Molecular Tools to Optimizing Bioremediation”, Peking University, Beijing, China. *Invited Speaker.*
101. Alvarez-Cohen, L., 2008. “Proteomics, Transcriptomics and Genomics applied to Optimize Bioremediation”, NIEHS Spirit Lecture, 20th, Raleigh, NC. *Invited Speaker.*
102. Johnson, D. R., N. C. VerBerkmoes, S. H. Zinder and L. Alvarez-Cohen, 2008. “Absolute comparison of transcriptomic and proteomic data using normalized spectrum counts for protein abundance estimates”, 108th general meeting of American Society for Microbiology, Boston, MA.
103. Sales, C.M., J. O. Sharp, and L. Alvarez-Cohen. Identifying the enzymes responsible for biodegradation of n-nitrosodimethylamine in different propanotroph strains”, 108th general meeting of American Society for Microbiology, Boston, MA.
104. Lee, P. K. H., E. L. Brodie, G. L. Andersen, T. W. Macbeth, K. S. Sorenson, R.L. Deeb and L. Alvarez-Cohen, 2008. “From Individuals to Community: Molecular Tools Shed Lights into the Environmentally Relevant Organisms”, Battelle Annual Conference on Remediation of Chlorinated Compounds, Monterey, CA. *Invited Speaker.*
105. West, K. A., D. R. Johnson, E. L. Brodie, H. Feil, G. L. Andersen, S. H. Zinder and L. Alvarez-Cohen, 2008. “Molecular Tools Provide New Genomic and Transcriptomic Insights into *Dehalococcoides* spp”, Battelle Annual Conference on Remediation of Chlorinated Compounds, Monterey, CA. *Invited Speaker.*
106. Alvarez-Cohen, L., 2007. “Application of Omics-Based Tools to Optimize Bioremediation”, Superfund Basic Research Program, 20th Anniversary Conference, Raleigh, NC. *Invited Speaker.*
107. Robrock, K. and Alvarez-Cohen, L., 2007. “Aerobic Biodegradation of Polybrominated Biphenyl Ethers”, Superfund Basic Research Program, 20th Anniversary Conference, Raleigh, NC.
108. Alvarez-Cohen, L., 2007. “Application of Molecular Tools and Microarrays to Optimize Bioremediation”, Partners in Environmental Technology Symposium and Workshop, Washington DC. *Invited Speaker.*
109. Lee, Patrick K. H.,Eoin L. Brodie, Tamzen W. Macbeth, Rula A. Deeb, Kent S. Sorenson, Jr., Gary L. Andersen, and Lisa Alvarez-Cohen. 2007. “A functional genomic approach to chlorinated ethene bioremediation”, Annual Meeting of the American Geophysical Union, San Francisco, CA.
110. Feil, H., G. L. Andersen, E. L. Brodie, S. H. Zinder and L. Alvarez-Cohen, 2007. “Global transcriptomic analysis of Dehalococcoides ethenogenes 195 growing syntrophically with Desulfovibrio spp.”, Partners in Environmental Technology Symposium and Workshop, Washington DC. P333
111. Sales, C.M., J. O. Sharp, J. LeBlanc, J. Le, W. W. Mohn, L. D. Eltis, T. K. Wood, L. Alvarez-Cohen. 2007 “Biodegradation of N-Nitrosodimethylamine by Bacterial Propane Monooxygenases”, Partners in Environmental Technology Symposium and Workshop, Washington DC. P163
112. Mahendra, S., L. Alvarez-Cohen. 2007 “Effect of Chlorinated Solvents on 1,4-Dioxane Biodegradation”, Partners in Environmental Technology Symposium and Workshop, Washington DC. P165
113. Alvarez-Cohen, L., 2007. “A Thousand Points of Light – Application of Molecular Tool and Microarrrays to Optimize Bioremediation”, Henske Distinguished Lecture in Chemical Engineering, Yale University, CT. *Invited Speaker.*
114. Alvarez-Cohen, L., 2007. “Optimizing Bioremediation using Molecular Tools and Microarrrays”, CEE Distinguished Lecture Series, University of Texas at Austin. *Invited Speaker.*
115. Sales, C.M., J. O. Sharp, ,J. LeBlanc, J. Liu, T.K. Wood, L.D. Eltis, W.W. Mohn and L. Alvarez-Cohen. 2007. “Identifying the Involvement of Propane Monooxygenase in the Biodegradation of n-Nitrosodimethylamine (NDMA) in *Rhodococcus* sp. RHA1”, 107th general meeting of American Society for Microbiology, Toronto, Canada.
116. Robrock, K., P. Korytár and L. Alvarez-Cohen. 2008. “Anaerobic Microbial Degradation Pathways for Seven PBDE Congeners”, 107th general meeting of American Society for Microbiology, Toronto, Canada.
117. He, J., P. K. H.,Lee, V. F. Holmes, and L. Alvarez-Cohen, 2007. “Growth of *Dehalococcoides* species in an Autotrophic Consortium”, 107th general meeting of American Society for Microbiology, Toronto, Canada.
118. Lee, P. K. H., T. W. Macbeth, K. S. Sorenson and L. Alvarez-Cohen, 2007. “Monitoring Reductase and 16S rRNA Genes and Transcripts of *Dehalococcoides* at a Trichloroethene Contaminated Field Site to Assess In-situ Bioremediation”, 107th general meeting of American Society for Microbiology, Toronto, Canada.
119. Lee, P. K. H., E. L. Brodie, G. L. Andersen, T. W. Macbeth, K. S. Sorenson and L. Alvarez-Cohen, 2007. “Applying a High-Density Phylogenetic Microarray to Monitor the Dynamics of Microbial Populations at a Trichloroethene-Contaminated Field Site”, 107th general meeting of American Society for Microbiology, Toronto, Canada.
120. West, K. A., D. R. Johnson, P. Hu, T. Z. DeSantis, E. L. Brodie, H. Feil, G. L. Andersen, S. H. Zinder and L. Alvarez-Cohen, 2007. “Comparative Genomics of *Dehalococcoides ethenogenes* 195 and a *Dehalococcoides*-Containing Enrichment Culture Using a Whole-Genome Microarray”, 107th general meeting of American Society for Microbiology, Toronto, Canada.
121. Johnson, D. R., G. L. Andersen, S. H. Zinder and L. Alvarez-Cohen, 2007. “Temporal Transcriptomic Microarray Analysis of *Dehalococcoides ethenogenes* Strain 195 During the Transition from the Exponential to Stationary Growth Phases”, 107th general meeting of American Society for Microbiology, Toronto, Canada.
122. Macbeth, T. W., M. H. Lee,., K. S. Sorenson, P. K. H. Lee, L. Alvarez-Cohen, M. Annable, R. Deeb, and K. Lynch, 2007. “Performance Assessment of Enhanced Bioremediation of DNAPLs Using Innovative Techniques”, 9th International In Situ and On-Site Bioremediation Symposium, Baltimore, MD.
123. Holmes, V. F., L. Alvarez-Cohen and W. Clayton, 2007. “Why *Dehalococcoides* 16S Isn’t Enough to Predict Bioremediation of PCE or TCE”, 9th International In Situ and On-Site Bioremediation Symposium, Baltimore, MD.
124. Alvarez-Cohen, L., 2007. “Microbial Communities and Pollution”, 2007 AAAS Annual Meeting, San Francisco, CA*. Invited Speaker.*
125. Alvarez-Cohen, L., 2006. “Biodegradation of Emerging Contaminants N-nitrosomethylamine (NDMA) and 1,4-Dioxane”, Partners in Environmental Technology Symposium and Workshop, Washington DC. *Invited Speaker.*
126. Alvarez-Cohen, L., 2006. “In situ Bioremediation – Bacteria Saving the World by Eating Much of our Junk”, CITRIS Research Exchange Seminar, UC Berkeley. *Invited Speaker.*
127. Alvarez-Cohen, L., 2006. “Biodegradation of Emerging Water Contaminants”, National University of Singapore, *Invited Speaker.*
128. Alvarez-Cohen, L., 2006. “Application of Molecular and Isotopic Tools to Optimize in situ Bioremediation”, National Technical University of Singapore. *Invited Speaker.*
129. Alvarez-Cohen, L., 2006. “A Thousand Points of Light – Use of Microarrrays and other Molecular Tools to Understand *Dehalococcoides*”, Stanford University, CA. *Invited Speaker.*
130. Alvarez-Cohen, L., 2006. “Application of Molecular and Isotopic Tools to Optimize Reductive Dechlorination”, Tsinghua University, PRC. *Invited Speaker.*
131. West, K., D. R. Johnson, J. He, P. K. H. Lee, T. Z. DeSantis, P. Hu, G. L. Andersen, S. H. Zinder, and L. Alvarez-Cohen, 2006. “Comparative Transcriptomics of *Dehalococcoides ethenognenes* Strain 195 and *Dehalococcoides* sp. Strain BAV1” 106th general meeting of American Society for Microbiology, Orlando, FL.
132. Johnson, D. R., J. He, P. Hu, G. L. Andersen, S. H. Zinder and L. Alvarez-Cohen, 2006. “Whole-Genome Transcription Analysis of *Dehalococcoides ethenogenes* Strain 195 Reveals a Cobalamin (Vitamin B12) Regulon” 106th general meeting of American Society for Microbiology, Orlando, FL.
133. Johnson, D. R., J. He, P. K. H. Lee, E. L. Brodie, P. Hu, G. L. Andersen, S. H. Zinder and L. Alvarez-Cohen, 2006. “Effect of Exposure to Cell-Free Spent Media From Different Reductive Dechlorinating Mixed Cultures on Whole-Genome Transcription in *Dehalococcoides ethenogenes* Strain 195” 106th general meeting of American Society for Microbiology, Orlando, FL.
134. Robrock, K. R., J. He, P. Korytar, J. de Boer and L. Alvarez-Cohen, 2006. “Degradation of Polybrominated Diphenyl Ethers by *Dehalococcoides* species.” 106th general meeting of American Society for Microbiology, Orlando, FL.
135. Lee, P. K. H., M. S. Conrad and L. Alvarez-Cohen, 2006. “Stable Carbon Isotope Fractionation of Chloroethenes by Dehalogenating isolates.” 106th general meeting of American Society for Microbiology, Orlando, FL.
136. Mahendra, S., C. Petzold, E. Baidoo, J. D. Keasling and L. Alvarez-Cohen, 2006. “Identification of the Intermediates of in-vivo 1,4-Dioxane Oxidation by Monooxygenase Enzymes.” 106th general meeting of American Society for Microbiology, Orlando, FL.
137. Sharp, J. O. and L. Alvarez-Cohen, 2006. “Propane Induces for NDMA Degradation in Axenic Cultures of *Rhodococcus sp.* RR1 as well as Soil Enrichments.” 106th general meeting of American Society for Microbiology, Orlando, FL.
138. He, J.Z., V. Holmes, P. K.H. Lee and L. Alvarez-Cohen, 2006. “Optimizing Growth of *Dehalococcoides ethenogenes* Strain 195 in Defined Medium” 106th general meeting of American Society for Microbiology, Orlando, FL.
139. Sharp, J. O., Mahendra, S., L. Alvarez-Cohen. 2005 “*Oxygenase-Catalyzed Biodegradation of Emerging Water Contaminants: 1,4-Dioxane and N-Nitrosodimethylamine*” Partners in Environmental Technology Symposium and Workshop, Washington DC.
140. Kavanaugh, M. C., Deeb, R. A., Navon, D., Goldstein, K., Parker, B., Cherry, C., Sorenson, K., Macbeth, T., L. Alvarez-Cohen. 2005 “*Diagnostic Tools for Performance Evaluation of Innovative In-Situ Remediation Technologies at Chlorinated Solvent Contaminated Sites*” Partners in Environmental Technology Symposium and Workshop, Washington DC.
141. Robrock, K. and L. Alvarez-Cohen, 2005. “Inhibition of Denitrification by the Antibacterial Triclosan”, 2005 TSR&TP Annual Conference, Sacramento, CA.
142. Lee, P. K. H., D. R. Johnson, V. F. Holmes, J. He and L. Alvarez-Cohen. 2005. “Assessing tceA Gene Expression as an Indicator for Trichloroethylene Dechlorination Activity” 105th general meeting of American Society for Microbiology, Atlanta, GA.
143. He, J., K. R. Robrock and L. Alvarez-Cohen. 2005 “Anaerobic Microbial Degradation of Polybrominated Diphenyl Ethers (PBDEs)” 105th general meeting of American Society for Microbiology, Atlanta, GA.
144. Holmes, V. F., J. He and L. Alvarez-Cohen, 2005. “Cooperative Dechlorination of Trichloroethene to Ethene by Two or More Dehalococcoides spp.” 105th general meeting of American Society for Microbiology, Atlanta, GA.
145. Johnson, D. R., P. K. H. Lee, V. F. Holmes and L. Alvarez-Cohen, 2005. “Expression of the tceA Reductive Dehalogenase Gene in an Anaerobic Enrichment Culture” 105th general meeting of American Society for Microbiology, Atlanta, GA.
146. Mahendra, S. and L. Alvarez-Cohen, 2005. “Kinetics of 1,4-Dioxane Biodegradation by Monooxygenase-expressing Organisms”. 105th general meeting of American Society for Microbiology, Atlanta, GA.
147. Sharp, J.O. and L. Alvarez-Cohen, 2005. “Biodegradation of the water contaminant N-nitrosodimethylamine (NDMA) by soil cultures” American Society of Limnology and Oceanography 2005 Aquatic Meeting. Salt Lake City, UT.
148. Sharp, J.O. and L. Alvarez-Cohen, 2004. “Tools for assessing N-nitrosodimethylamine (NDMA) biodegradation by monooxygenase enzymes”. Superfund Basic Research Program Annual Meeting, Seattle, WA.
149. Holmes, V. F., He, J. Z., Johnson, D. R., and L. Alvarez-Cohen. 2004. "Assessing Reductive Dechlorination Potential by Quantifying Dehalococcoides Reductase Genes". Superfund Basic Research Program Annual Meeting, Seattle, WA.
150. Alvarez-Cohen, L., 2004. “Addressing the Water Crisis”, Sixth Annual Asian Leadership Conference, Singapore. *Invited Speaker.*
151. Robrock, K. and L. Alvarez-Cohen, 2004. “Effects of Triclosan on Environmental Microbial Communities”, 2004 TSR&TP Annual Conference, San Diego, CA.
152. Holmes, V. F., and L. Alvarez-Cohen, 2004. **“**Growth and Dechlorination Activity of *Dehalococcoides ethenogenes* 195within Assembled Co- and Tri-Cultures”. 104th general meeting of American Society for Microbiology, New Orleans, LA.
153. Johnson, D. R., Holmes, V. F., and L. Alvarez-Cohen, 2004. **“**Development of an Internal Reference Technique for the Quantification of mRNA by qPCR with Application to the *tceA* Reductive Dechlorination Gene”. 104th general meeting of American Society for Microbiology, New Orleans, LA.
154. Sharp, J. O. and L. Alvarez-Cohen. 2004. “Tools for Assessing the Potential for Bacterial N-Nitrosodimethylamine (NDMA) Degradation”, 104th general meeting of American Society for Microbiology, New Orleans, LA.
155. Alvarez-Cohen, L., 2004. “Biodegradation of Emerging Water Contaminants”, University of Michigan, Ann Arbor, Michigan. *Invited Speaker.*
156. Alvarez-Cohen, L. and Mark Conrad, 2003. “The Application of Molecular and Isotopic Techniques to Track Reductively Dechlorinating Microbial Communities”, US-Vietnam Scientific Workshop on Dioxin Screening, Remediation Methodologies and Site Characterization, Hanoi, Vietnam. *Invited Speaker.*
157. Mahendra, S. and L. Alvarez-Cohen, 2003. “Aerobic Biodegradation of 1,4-Dioxane”, 103rd general meeting of American Society for Microbiology, Washington DC.
158. Rahm, B., Fortin, A., Holmes, V.F., Wu, C., Richardson R.E., and L. Alvarez-Cohen, 2003. “Application of Real-Time PCR to Quantify Reductive Dechlorination of TCE”, 103rd general meeting of American Society for Microbiology, Washington DC.
159. Alvarez-Cohen, L. 2003. “Trichloroethylene (TCE) in Groundwater: Attacking the problem”, UC Berkeley in Silicon Valley, Santa Clara, CA. *Invited Speaker.*
160. French, J., A. Rossi; T. Kirk; D. Blackwelder; K. Sorenson; B. Rahm; L. Alvarez-Cohen; S. Le; M. Pound and P. Tamashiro. 2003. “Phased in situ Biostimulation/Bioaugmentation Pilot Testing in a Coastal Aquifer”, Seventh International Symposium on in situ and on-site Bioremediation, Orlando, FL.
161. Alvarez-Cohen, L. 2002. “Application of Molecular and Isotopic Techniques to Study Microbial Communities that Reductively Dechlorinate Trichloroethene”, NIEHS Annual Research Conference. Tucson, Arizona. *Invited Speaker.*
162. Alvarez-Cohen, L. 2002. “Using New Technologies to Understand And Solve Environmental Problems”, Association of Environmental Engineering and Science Professors and American Association of Engineering Education Joint Conference on Integrated Environmental Teaching, Research and Practice: Linking Engineering and Science to Address Complex Problems. Toronto, Canada. *Invited Keynote Speaker.*
163. Alvarez-Cohen, L. 2002. Relevance of Graduate Education to Practice of Environmental Engineering” Association of Environmental Engineering and Science Professors and American Association of Engineering Education Joint Conference on Integrated Environmental Teaching, Research and Practice: Linking Engineering and Science to Address Complex Problems. Toronto, Canada. *Invited Panelist.*
164. Alvarez-Cohen, L., Chauhan. S, Rahm, B., Fortin, A., and Richardson R.E.. 2002. “Molecular characterization of microbial community structure and functional genes of cultures that reductively dehalogenate chlorinated ethenes”, Conference on Bioremediation and Biodegradation: Current Advances in Reducing Toxicity, Exposure And Environmental Consequences. Asilomar Conference Center, Pacific Grove, California. *Invited speaker.*
165. Freeborn, R. A., V.K. Bhupathiraju, S. Chauhan, K. West, R. Richardson, T. Goulet, and L. Alvarez-Cohen. 2002. “Microbial Community Analysis of TCE-Dechlorinating Enrichments Using Various Electron Donors”, Third International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA.
166. Chauhan, S., Bhupathiraju. V.K., West. K, Rahm. B, Sorenson. K., and L. Alvarez-Cohen. 2002. “Microbial Community Analysis of Two Field Sites Undergoing Enhanced TCE Degradation by Lactate Injection”, 102nd general meeting of American Society for Microbiology, Salt Lake City, Utah.
167. Sharp, J. O. and L. Alvarez-Cohen. 2002. “Biodegradation of N-Nitrosodimethylamine by Monooxygenase Containing Bacteria”, 102nd general meeting of American Society for Microbiology, Salt Lake City, Utah.
168. Sorenson, K S, R. L. Ely, J P. Martin, L. Alvarez-Cohen, and M.E. Kauffman. 2001. “Assessing Enhanced Anaerobic and Intrinsic Aerobic Biodegradation of Trichloroethene” Eos Trans. AGU, 82(47), Fall Meeting Suppl., Abstract B21B-04.
169. Alvarez-Cohen, L., R. Richardson, R. A. Freeborn, V. K. Bhupathiraju, . 2001. “Phylogenetic Characterization of Microbial Communities that Reductively Dechlorinate TCE”, NIEHS Superfund Quad-University/EPA Region 9 Conference, Davis, California.  *Invited paper*
170. Alvarez-Cohen, L. and R. Richardson. 2001. “Fifteen Minutes of Fame, Years of Infamy – MTBE in Gasoline”, Lair of the Golden Bear Summer Camp Seminar Series, Pinehurst, CA. *3 Invited lectures.*
171. M. Laugier, K.H. Chu, and L. Alvarez-Cohen. 2001. “Bioremediation of Mixed Vapor Phase Contaminants in Unsaturated Soil Microcosms”, 101st general meeting of American Society for Microbiology, Orlando, Florida.
172. R. E. Richardson, L. K. Jennings, and L. Alvarez-Cohen. 2001. “Variability in Ribosome Maintenance in Organisms with Different 16S rDNA Operon Copy Number”, 101st general meeting of American Society for Microbiology, Orlando, Florida.
173. Freeborn, R. A, V. K. Bhupathiraju, R. E. Richardson, T. Goulet, and L. Alvarez-Cohen. 2001. “Comparison of Microbial Community Structure of TCE-Dechlorinating Enrichments Using Various Electron Donors”, 101st general meeting of American Society for Microbiology, Orlando, Florida.
174. Chu, K. H., D. Song, M. E. Conrad, and L. Alvarez-Cohen. 2001. “Stable Carbon Isotopic Fractionation of Vinyl Chloride During Aerobic Biodegradation”, 101st general meeting of American Society for Microbiology, Orlando, Florida.
175. Deeb, R. A., H-Y Yu, J. Sharp, M. C. Kavenaugh, and L. Alvarez-Cohen. 2001. “Subsurface Fate and Transport of Ethanol and its Potential Impact on BTEX Bioattenuation”, The Sixth International Battelle Symposium on In Situ and On-Site Bioremediation, San Diego, CA.
176. Deeb, R. A., A. J. Stocking, L. Alvarez-Cohen, and M. C. Kavenaugh. 2000. “MTBE and TBA Biodegradation: A Current Review”, Proceedings of the 2000 Petroleum Hydrocarbons Conference, National Groundwater Association and American Petroleum Institute.
177. Alvarez-Cohen, L. 2000. “Water Quality: Perception Versus Reality”, Lair of the Golden Bear Summer Camp Seminar Series, Pinehurst, CA. *3 Invited lectures.*
178. Deeb, R. A., J.C. Spain, and L. Alvarez-Cohen. 2000 “Aerobic Metabolism of Gasoline Aromatics by Two *Rhodococcus* *ruber* strains”, Annual meeting of the Society for Industrial Microbiology, San Diego CA. *Invited paper*
179. Richardson, R. E., V. K. Bhupathiraju, D. L. Song, T. Goulet, and L. Alvarez-Cohen. 2000 “Molecular Characterization of a TCE-Dechlorinating Anaerobic Mixed Culture”, Annual Meeting of American Society for Microbiology, Anaheim, CA *Student award winner*.
180. Deeb, R. A., S. F. Nishino, J.C. Spain, H-Y Hu, K. M. Scow and L. Alvarez-Cohen. 2000 “MTBE and benzene biodegradation by a bacterial isolate via two independent monooxygenase-initiated pathways”, American Chemical Society Annual Meeting, San Francisco, CA, *Preprints of Extended Abstracts, American Chemical Society* 40(1):280-282. *Invited paper*
181. Deeb, R. A., J. R. Hanson, K. M. Scow, and L. Alvarez-Cohen. 2000. “Substrate interactions during the biodegradation of MTBE and BTEX mixtures.” Second International Conference: Remediation of Chlorinated and Other Recalcitrant Compounds, Monterey, CA.
182. Chu, K. H., D. Song, M. E. Conrad, and L. Alvarez-Cohen. 2000. “Fractionation of stable carbon isotopes during the biodegradation of chlorinated solvents.” Second International Conference: Remediation of Chlorinated and Other Recalcitrant Compounds, Monterey, CA.
183. Templeton, A. S., K.-H. Chu, L. Alvarez-Cohen, and M. E. Conrad. 1999. “Metabolic controls on the carbon-isotope fractionations expressed by methane -oxidizing bacteria”, Geol. Soc. Am., Abst. with Prog. 31, no. 7, A392.
184. Alvarez-Cohen, L. 1999. “The Role of Biotechnology in Assuring Future Water Supplies”, Dialogue Series on Climate, Biotechnology and Water Security, Swaminathan Research Foundation, Chennai, India. *Invited lecture and committee report.*
185. Song, D. L., Alvarez-Cohen, L., Conrad, M. E., and K. Sorenson. 1999. “Monitoring Of Enhanced In-Situ Bioremediation of Trichloroethylene Using Stable Carbon Isotopes”, ASM Specialty Meeting on Subsurface Microbiology, Vail CO.
186. Deeb, R. A., Hanson, J., Scow, K., and L. Alvarez-Cohen. 1999. “Biodegradability and Impact of Fuel Oxygenates on the Bioattenuation of BTEX Compounds In Pollutant Mixtures” UC Toxic Substances Research Program, Santa Barbara, CA.
187. Deeb, R. A., Spain, J. C., and L. Alvarez-Cohen. 1999. "Mineralization of Benzene, Toluene, Ethylbenzene, m-Xylene and p-Xylene by two Rhodococcus Species" Annual Meeting of American Society for Microbiology, Chicago, IL *Student award winner*.
188. Richardson, R., James, C. A., and L. Alvarez-Cohen. 1999. “Bacterial Rebound in Soils Following Steam Injection: Stimulating PAH Degraders," The Fifth International Battelle Symposium on In Situ and On-Site Bioremediation, San Diego, CA.
189. Deeb, R. A., Spain, J.C., and L. Alvarez-Cohen. 1999. “Mineralization of BTEX Compounds and MTBE in Pollutant Mixtures by Enriched and Pure Microbial Cultures," The Fifth International Battelle Symposium on In Situ and On-Site Bioremediation, San Diego, CA.
190. Alvarez-Cohen, L. 1998. "Kinetics of Aerobic Cometabolic Biodegradation of Chlorinated Solvents", Seventh Biocatalysis and Bioprocessing Conference, Iowa City, IA. *Invited Lecture*
191. Bhupathiraju, V.K. and L. Alvarez-Cohen, 1998 “Developing A Tool For Evaluating In-Situ Bioremediation Under Anaerobic Conditions” Annual Meeting of American Society for Microbiology, Atlanta, GA.
192. Alvarez-Cohen, L., M. E. Conrad, A. Templeton, K. S. Udell, P. F. Daley, and V. K. Bhupathiraju. 1998. “Stable and Radioisotopes for Monitoring Intrinsic Bioremediation of Chlorinated Solvents” The First International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA.
193. Alvarez-Cohen, L., V. K. Bhupathiraju, M. E. Conrad, P. F. Daley, H. N. Holman, J. R. Hunt, P. Krauter, M. MacDonald and K. Udell. 1998. Intrinsic Bioremediation, Sites 13 and 3, Alameda Point, Alameda, California. Treatability Study Report, Submitted to the Department of the Navy (contract # N62474-94-D-7430).
194. Chu, K. H., and L. Alvarez-Cohen. 1998. “Degradation of Chlorinated Solvents by Nitrogen-Fixing and Nitrate-Supplied Methane Oxidizers in Unsaturated Columns”, The First International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA.
195. Chu, K. H. and L. Alvarez-Cohen. 1998. “Effects of nitrogen source on the nature of toxicity due to aeration and TCE oxidation in methane oxidizing bacteria.” UC Toxic Substances Research and Teaching Program: 11th Annual Research Symposium. Berkeley, CA.
196. Alvarez-Cohen, L. 1997. “Modeling the Cometabolic Degradation of Chlorinated Organics”, Gordon Conference on Applied and Environmental Engineering, Newport R.I. *Invited Lecture*
197. Deeb, R. and L. Alvarez-Cohen. 1997. “The Mineralization of BTEX Mixtures by Environmental Cultures”, The Fourth International Battelle Symposium on In Situ and On-Site Bioremediation, New Orleans, Louisiana.
198. Bhupathiraju, V.K., L. Alvarez-Cohen, M.E. Conrad, A. Templeton, P. F. Daley, M. Hernandez, H-Y Holman, J. R. Hunt and P. Krauter. 1997. “Innovative Techniques for Assessment of Intrinsic Bioremediation at Alameda Naval Air Station”, 4th International Battelle Symposium on In Situ and On-Site Bioremediation, New Orleans, LA.
199. Chu, K. H., and L. Alvarez-Cohen. 1997. “TCE Product Toxicity and Internal Energy-Storage Effects on Methanotrophs”, The Fourth International Battelle Symposium on In Situ and On-Site Bioremediation, New Orleans, Louisiana.
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203. Alvarez-Cohen, L. 1996. “Degradation of Chlorinated Organics by Oxygenase Expressing Cultures”, Stanford University, Palo Alto CA. *Invited Lecture.*
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