

Curriculum Vitae:

Urs Jans

The City College of New York

Department of Chemistry and Biochemistry, New York, NY 10031

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Current Status: Professor, City College, Department of Chemistry and Biochemistry

Education:

1992-1996 Ph. D., Swiss Federal Institute of Technology (ETH) / Swiss Federal Institute of Aquatic Science and Technology (EAWAG), Duebendorf, Switzerland.

Thesis title: *Ozone Derived Radical Formation in Atmospheric Water: Influence of Light, Dissolved Organic Compounds and Soot Particles*. Advisor: Prof. Jürg Hoigné

1987-1992 Diploma in Chemistry, ETH, Zurich, Switzerland. Title of the diploma thesis: *Peroxyradicals as Photooxidants in Natural Waters*.

Professional Experience:

2017 – present: **Professor**, City College of New York, Department of Chemistry and Biochemistry, New York, NY

2019 **Visiting Scientist**, Swiss Federal Institute of Aquatic Research (Eawag), Duebendorf, Switzerland

2007- 2017: **Associate Professor**, City College of New York, Department of Chemistry, New York, NY.

2010-2011: **Visiting Scientist**, Civil and Environmental Engineering Department at UC Berkeley, Berkeley, CA.

1999-2007 **Assistant Professor**, City College of New York, Department of Chemistry, New York, NY. (Tenured in 2004).

1998-1999 **Grant Assistant Professor**, City College of New York, Department of Chemistry, New York, NY.

1996-1998 **Postdoctoral Research Associate**, Johns Hopkins University, Department of Geography and Environmental Engineering, Baltimore, MD
Mechanism of reductive dehalogenation reactions promoted by reduced sulfur species
Skills and Methodology: GC/FID, GC-MS, UV-Vis, TOC, kinetic modeling.

1996 **Research Fellow** at EAWAG, Duebendorf, Switzerland
Activated carbon catalyzed transformation of dissolved ozone into OH-radicals
Skills and Methodology: UV-Vis, HPLC, ozone generator.

1992-1996 **Doctoral Studies** at ETH, Zurich / EAWAG, Duebendorf, Switzerland
Research on the ozone derived radical formation in atmospheric water: influence of light, dissolved organic compounds and soot particles. Reactions of ozone with substances of plant physiological interest. Determination of reaction kinetics.
Skills and Methodology: UV-Vis, HPLC, photoreactor, ozone generator, stopped-flow and continuous-flow method for kinetic measurements.

Professional Affiliations:

American Chemical Society: Environmental Chemistry Division and Agrochemical Division;
Society of Environmental Toxicology and Chemistry, American Association for the
Advancement of Science

Professional Activities:

Reviewer for *Environmental Science & Technology*, *Environmental Science & Technology Letters*, *Environmental Science – Processes & Impact*, *Journal of Environmental Engineering*, *Chemosphere*, *Ozone Science & Engineering*, *Industrial & Engineering Chemistry Research*, *CLEAN – Soil, Air, Water*, *Journal for Colloid and Interface Science*, *Frontiers in Environmental Science*, *Environmental Pollution*, *Current Pollution Reports*, *Toxicology Research*

Member of the Doctoral Faculty in Chemistry of the City University of New York (Divisions of Analytical/Environmental Chemistry), 1999 - present

Member of the Doctoral Faculty in Earth & Environmental Sciences of the City University of New York, 2006 - present

Board Member of the Analytical Topical Group of the ACS, New York Section, 2002-present

Associate Editor of *Current Pollution Reports (Springer)*, 2017-present

Committee Member of the Award Committee of the Science Division CCNY, 2002, 2007

Coordinator for Project SEED (ACS) at City College, since 2003-2014

44th Middle Atlantic Regional Meeting (MARM 2016), College of Mount St. Vincent, Bronx, NY, June 9-12, 2016, “Environmental Chemistry: Fate of Contaminants”, Session Organizer/Chair

Session Chair at the 17th International Conference on Chemistry and The Environment (European Chemical Society – Division of Chemistry and the Environment). Thessaloniki, Greece, June, 18 2019, title of the Session: Environmental Fate of Contaminants.

Program Committee of "Einstein in the City - A Student Research Conference" April 11-12, 2005 and October 30-31, 2007

Curriculum Committee of the new Environmental Earth System Science program at City College, 2006 -present

Curriculum Committee of the Chemistry Department, CCNY, 2005 until 2008, 2017-2020

Curriculum Committee of the Science Division representing Chemistry, 2007-2008

Chair of the Organic Division Chemistry Department, CCNY, 2007 - 2010

Chair of LC-MS/MS task force of the Science Division, Fall 2007

Chair of the MS-Facility committee of the Science Division, 2007 - present

Coordinator of the Course Assessment (Middle States) for the Chemistry Department, 2007 - present

Member of the search committee for an organic chemist, Fall 2004, Fall 2007, Fall 2018

Chair of the search committee for a research associate (MS Facility), Fall 2008

Member of the search committee for a lecturer in organic chemistry, Fall 2008

Member of the science panel for the CUNY Dissertation Fellowship, Spring 2010, Spring 2012

Member of the search committee for a senior lab technician, Chemistry Department, Spring 2012

Member of the search committee for program director of ESE program, Fall 2012

Member of search committee for senior College Laboratory Technician, Spring 2015

University Committee on Research Awards (CUNY), chair of the chemistry/biochemistry panel
2014-2019

Executive Committee, Department of Chemistry and Biochemistry 2014-present

Science Division – Budget Committee 2014-2015

Physical Plant Committee of Faculty Senate, 2015-present

Committee on Course and Standing (College of Liberal Arts and Sciences – CCNY) 2017-
present

Faculty Senate Student Disciplinary Committee, Spring 2018-present

Publication List:

Refereed Journals:

- X. Zhang, K.K. Roopnarine, S. Dong, U. Jans, 2020, Stereoisomer specific reaction of hexabromocyclododecane with Fe(II) associated with iron oxides, *Environmental Science: Processes & Impacts*, 22, 1026-1036. <https://doi.org/10.1039/C9EM00587K>
- X. Zhang, J.H. Wilson, A. Lawson, E.G. Hohenstein, U. Jans, 2019, Stereoisomer specific reaction of hexabromocyclododecane with reduced sulfur species in aqueous solutions. *Chemosphere*, 226, 238-245. <https://doi.org/10.1016/j.chemosphere.2019.03.134>
- O. Hodek, U. Jans, L. Yang, T. Krizek, 2018, Chlorpyrifos-methyl oxon hydrolysis and its monitoring by HPLC-MS/MS. *Monatshefte für Chemie – Chemical Monthly*, 149, 1515-1519. <https://doi.org/10.1007/s00706-018-2219-6>
- S. Christian, P. Pradhan, U. Jans, 2018, Investigation of the Nucleophilic Attack of Dichlorvos by Reduced Sulfur Species Using ^1H NMR. *J. Agric. Food Chem.*, 66, 424-431. <http://dx.doi.org/10.1021/acs.jafc.7b04749>
- U. Jans, 2016. Emerging Brominated Flame Retardants in Sediments and Soils: a Review. *Current Pollution Reports*, 2, 213-223. <http://dx.doi.org/10.1007/s40726-016-0041-5>
- D. Saint-Hilaire, U. Jans, 2013. Reactions of three halogenated organophosphorus flame retardants with reduced sulfur species. *Chemosphere*, 93, 2033-2039. <http://dx.doi.org/10.1016/j.chemosphere.2013.07.028>
- L. Yang, X. Li, P. Zhang, M. Melcer, Y. Wu, U. Jans, 2012. Concentrations of DDTs and dieldrin in Long Island Sound sediment, *Journal of Environmental Monitoring*, 14, 878-885. <http://dx.doi.org/10.1039/C2EM10642F>
- K.W. Lo, S.C. Saha-Roy, U. Jans, 2012. Investigation of the reaction of hexabromocyclododecane with polysulfide in methanol/water solutions, *Chemosphere*, 87, 158-162. <http://dx.doi.org/10.1016/j.chemosphere.2011.12.008>
- D. Saint-Hilaire, K.Z. Ismail, U. Jans, 2011. Reactions of tris(2-chloroethyl)phosphate with reduced sulfur species, *Chemosphere*, 83, 941-947. <http://dx.doi.org/10.1016/j.chemosphere.2011.02.040>
- M. Seredych, J. Lison, U. Jans, T.J. Bandosz, 2009. Textural and chemical factors affecting adsorption capacity of activated carbon in highly efficient desulfurization of diesel fuel. *Carbon*, 47, 2491-2500. <http://dx.doi.org/10.1016/j.carbon.2009.05.001>
- G. F. Talu, V. Diyamandoglu, U. Jans, 2007. Oxalate ion decomposition under UV light from low pressure mercury vapor lamps. *Ozone: Science and Engineering*, 29, 473-483. <http://dx.doi.org/10.1080/01919510701615672>
- L. Yang, X. Li, J. Crusius, U. Jans, M. E. Melcer, P. Zhang, 2007. Persistent chlordane concentrations in Long Island Sound sediment: Implications for chlordane, ^{210}Pb , and ^{137}Cs depth profiles. *Environ. Sci. Technol.* 41, 7723-7729. <http://dx.doi.org/10.1021/es070749a>
- Q. Gan, U. Jans, 2007. Nucleophilic reaction of phorate and terbufos with reduced sulfur species under anoxic conditions. *Journal of Agricultural and Food Chemistry*, 55, 3546-3554. <http://dx.doi.org/10.1021/jf063296m>
- X. Li, L. Yang, U. Jans, M.E. Melcer, P. Zhang, 2007. Lack of enantioselective microbial degradation of chlordane in Long Island Sound Sediment. *Environ. Sci. Technol.*, 41, 1635-1640. <http://dx.doi.org/10.1021/es062125v>
- Q. Gan, R.M. Singh, T. Wu, U. Jans, 2006. Kinetics and mechanism of degradation of dichlorvos in aqueous solution containing reduced sulfur species. *Environ. Sci. Technol.*, 40, 5717-5723. <http://dx.doi.org/10.1021/es060485c>

- T. Wu, Q. Gan, U. Jans, 2006. Nucleophilic substitution of phosphorothionate ester pesticides with bisulfide (HS-) and polysulfides (S_n2-), *Environ. Sci. Technol.* 40, 5428-5434. <http://dx.doi.org/10.1021/es060711j>
- Q. Gan, U. Jans. Reaction of thiometon and disulfoton with reduced sulfur species in simulated natural environment, 2006. *J. Agric. Food Chem.*, 54, 7753-7760. <http://dx.doi.org/10.1021/jf061019+>
- X. Guo; U. Jans, 2006. Kinetics and mechanism of the degradation of methyl parathion in aqueous hydrogen sulfide solution: Investigation of natural organic matter effects. *Environ. Sci. Technol.*, 40, 900-906. <http://dx.doi.org/10.1021/es051453c>
- T. Wu, U. Jans, 2006. Nucleophilic substitution reactions of chlorpyrifos-methyl with sulfur species. *Environ. Sci. Technol.*, 40, 784-790. <http://dx.doi.org/10.1021/es051468a>
- Q. Gan, R.M. Singh, U. Jans, 2006. Degradation of naled and dichlorvos promoted by reduced sulfur species in well-defined anoxic aqueous solutions. *Environ. Sci. Technol.*, 40, 778-783. <http://dx.doi.org/10.1021/es051482n>
- U. Jans, M. H. Miah, 2003. Reaction of chlorpyrifos-methyl in aqueous hydrogensulfide/bisulfide solutions. *J. Agric. Food Chem.*, 51, 1956-1960. <http://dx.doi.org/10.1021/jf020955w>
- L. A. Totten, U. Jans, A. L. Roberts, 2001. Alkyl bromides as mechanistic probes of reductive dehalogenation: Reduction of vicinal dibromide stereoisomers with zero-valent metals. *Environ. Sci. Technol.*, 35, 2268-2274. <http://dx.doi.org/10.1021/es0010195>
- U. Jans, J. Hoigné, 2000. Atmospheric water: transformation of ozone into OH-radicals by sensitized photoreactions or particulate carbon. *Atmos. Environ.*, 34, 1069-1085. [http://dx.doi.org/10.1016/S1352-2310\(99\)00361-1](http://dx.doi.org/10.1016/S1352-2310(99)00361-1)
- U. Jans, J. Hoigné, 1998. Activated carbon and carbon black catalyzed transformation of aqueous ozone into OH-radicals. *Ozone: Science and Engineering*, v. 20, pp. 67-90. <http://dx.doi.org/10.1021/10.1080/01919519808547291>
- S. Canonica, U. Jans, K. Stemmler, J. Hoigné, 1995. Transformation kinetics of phenols in water: photosensitization by dissolved natural organic material and aromatic ketones. *Environ. Sci. Technol.*, v. 29, pp. 1822-1831. <http://dx.doi.org/10.1021/es00007a020>

In preparation:

Non-Refereed Publications:

- K.W. Lo, 2011, Degradation of hexabromocyclododecane with reduced sulfur species, *Annals of City College Exemplary Science Student Research*, February 2011, 15-17
- Yang, Lijia; Li, Xiqing; Crusius, John; Jans, Urs; Melcer, Michael E.; Zhang, Pengfei. Persistent chlordane concentrations in Long Island Sound sediment: implications from chlordane, ²¹⁰Pb and ¹³⁷Cs depth profiles. Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry (2007), 47(2), 398-405.
- He, Juan; Jans, Urs. pH effect on hydrolysis of diazinon and diazoxon in aqueous solution. Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry (2007), 47(2), 201-206.
- Yang, Lijia; Li, Xiqing; Wu, Youxian; Melcer, Michael; Zhang, Pengfei; Jans, Urs. Concentration and chiral signatures of chlordane in surficial sediments from Long Island Sound. *Proceedings of the Junior Scientist Conference 2006*, April 19th – 21st 2006, Vienna University of Technology, (2006) 295-296.
- Gan, Qiu; Jans, Urs. The role of reduced sulfur species in the degradation of thiometon and disulfoton in simulated coastal environments. *Proceedings of the Junior Scientist*

- Conference 2006, April 19th – 21st 2006, Vienna University of Technology, (2006) 283-284.
- Yang, Lijia; Wu, Youxian; Jans, Urs; Zhang, Pengfei; Melcer, Michael E. Concentration and enantiomeric fractions of chlordane in sediments from Long Island sound. Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry (2006), 46(1), 619-623.
- Guo, Xiaofen; Jans, Urs. Effect of natural organic matter on the degradation of methyl parathion in aqueous hydrogen sulfide solutions. Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry (2005), 45(2), 77-81.
- Wu, Tong; Jans, Urs. Kinetics and mechanism of nucleophilic substitution of organophosphorothionate insecticides with reduced sulfur species. Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry (2005), 45(2), 71-75.
- Gan, Qiu; Singh, Raphael M.; Jans, Urs. The role of reduced sulfur species in the degradation of naled in aqueous solution. Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry (2005), 45(2), 1-6.
- X. Guo; U. Jans, 2004. Degradation of parathion-methyl in aqueous solutions containing natural organic matter. Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry, 44(2), 1236-1240.
- T. Wu, J.H. Wilson Jr., M.H. Miah, U. Jans, 2004. Role of reduced sulfur species in promoting the degradation of organophosphorus insecticides in aqueous solutions. Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry (2004), 44(2), 1241-1245.
- Q. Gan, R. Singh, U. Jans, 2004. Degradation of naled and dichlorovos promoted by bisulfide in well-defined aqueous system. Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry, 44(2), 107-111.
- T. Wu, J. H. Wilson Jr., M. H. Miah, U. Jans, 2003. Reactions of chlorpyrifos-methyl and parathion-methyl with reduced sulfur species. Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry, 43(2), 217-222.
- A. L. Roberts, W. A. Arnold, U. Jans, A. L. Totten, J. P. Fennelly, 1999. Mechanistic investigations of zero-valent metal reactions with organohalides. USAF Technical Report, US Air Force Research Laboratory.
- U. Jans, A. L. Roberts, 1998. 1,2-Dibromo-1,2-diphenylethane: a mechanistic probe of reductive dehalogenation by reduced sulfur species in the presence of electron transfer mediators. Preprints of Extended Abstracts presented at the ACS National Meeting, August 23-27 1998, Boston, Division of Environmental Chemistry, 38(2), 123-124.
- U. Jans, J. Hoigné, 1997. Activated carbon and soot catalyzed transformation of dissolved ozone into OH-radicals, Preprints of Extended Abstracts presented at the ACS National Meeting, April 13-17 1997, San Francisco, Division of Environmental Chemistry, 37(1), 96-98.
- U. Jans, 1996. Kinetik von chemischen Transformationen von Ozon in Wolkenwasser - Einfluss von gelösten organischen Verbindungen, von Licht und von Russ, Ph.D.-thesis Nr: 11814 ETH Zürich, Switzerland.
- U. Jans, J. Hoigné, 1996. Role of photochemical reactions and photoreactants for the depletion of ozone in atmospheric waters, final report, *Joint EC/EUROTRAC Workshop HALIPP-*

LACTOZ: Homogeneous and Heterogeneous Chemical Processes in the Troposphere, September 25-26 1995, Strasbourg, Ed. Ph. Mirabel, pp. 156-160.

U. Jans, J. Hoigné, 1995. Role of photochemical reactions and photoreactants for the depletion of ozone in atmospheric waters, Preprints of Extended Abstracts presented at the ACS National Meeting, August 20-24 1995, Chicago, IL, Division of Environmental Chemistry, 35(2), 433-436.

Abstracts and Talks:

Jans, Urs, X. Zhang, E. Hohenstein, K. Roopnarine, Isomer specific reduction of hexabromocyclododecane by Fe(II) in iron oxide suspensions, Talk at the 17th International Conference on Chemistry and The Environment (European Chemical Society – Division of Chemistry and the Environment). Thessaloniki, Greece, June, 18 2019.

Jans, Urs, Potential Degradation of Hexabromocyclododecane (HBCDD) in Sediments: Stereoisomer Specific Reaction of HBCDD with Reduced Sulfur Species or Fe(II) Bound to Iron Oxides. W+T seminar, EAWAG, Duebendorf, Switzerland, March, 4. 2019.

Xianmiao Zhang, John H. Wilson, Urs Jans, Isomer specific reaction of HBCD with Fe(II) bearing iron oxides., Poster presented at the Environmental Sciences: Water; Gordon Research Conference, Holderness School, Plymouth, NH, June 24 - 29, 2018.

Jans, Urs, S. Christian, P. Pradhan, Investigation of the Nucleophilic Attack of Dichlorvos by Reduced Sulfur Species Using ¹H NMR, Poster presented at the Environmental Sciences: Water; Gordon Research Conference, Holderness School, Plymouth, NH, June 24 -29, 2018.

Katherine Ferreras, John Nobleman, Aisha Ashfaq, Glen Kowach, Urs Jans, “Synthesis and characterization of green rust: an unusual partially oxidized iron oxide hydroxide”, Talk given at 65th Undergraduate Research Symposium, NY-ACS, Fordham University, Bronx, NY, May 6th 2017.

Aicha Bendia, Urs Jans, “Using the hard and soft, acids and bases theory to predict organophosphates – target interactions”. Talk given at 65th Undergraduate Research Symposium, NY-ACS, Fordham University, Bronx, NY, May 6th 2017.

Jans, Urs, “How long do sediments stay contaminated?”-Persistent chlordane concentrations in Long Island Sound sediment: Implications from chlordane, ²¹⁰Pb and ¹³⁷Cs depth profiles. Seminar, Department of Chemistry and Physical Sciences, Hofstra University, Hempstead, NY, October 19, 2016.

Jans, Urs, Xianmiao Zhang, John H. Wilson, Edward Hohenstein, Isomer specific reaction of HBCD with reduced sulfur species, Poster presented at the Environmental Sciences: Water; Gordon Research Conference, Holderness School, Plymouth, NH, June 29, 2016.

Xianmiao Zhang, John H. Wilson, Edward Hohenstein, Urs Jans, Reaction of HBCD with reduced sulfur species in methanol/water solution, talk at 44th Middle Atlantic Regional Meeting (MARM 2016), College of Mount St. Vincent, Bronx, NY, June 9-12, 2016.

Quazi, Shadman, Urs Jans, Reaction of HBCD in bisulfide in methanol/water solutions, CUNY Summer Undergraduate Research Program, Poster presentation, Advanced Science Research Center, City University of New York, New York, NY, August 6, 2015.

Jans, Urs, Xianmiao Zhang, John H. Wilson, Isomer specific reaction of HBCD with reduced sulfur species in aqueous solution, talk at 40th North East Regional Meeting of the ACS, Ithaca, NY, June 10-13, 2015

Jans, Urs, “How long do sediments stay contaminated?”-Persistent chlordane concentrations in Long Island Sound sediment: Implications from chlordane, ²¹⁰Pb and ¹³⁷Cs depth profiles. Seminar, Department of Chemistry and Physical Sciences, Pace University, New York, NY, February 25, 2015.

- Jans, U., J.H. Wilson, K. Ng, Isomer specific reaction of HBCD with reduced sulfur species in aqueous solution, Poster presented at the Environmental Sciences: Water; Gordon Research Conference, Holderness School, Plymouth, NH, June 23, 2014.
- Neel Patel, Urs Jans, Investigation of the degradation of the brominated flame retardant, 1,2-dibromo-4-(1,2-dibromoethyl)cyclohexane (TBECH), with bisulfide. Talk at the 62nd Annual Undergraduate Research Symposium of New York's American Chemical Society, May 3rd, 2014 at St. John's University, Queens, NY
- Jans, Urs, "How long do sediments stay contaminated?"-Persistent chlordane concentrations in Long Island Sound sediment: Implications from chlordane, 210Pb and 137Cs depth profiles. Seminar, Department of Environmental Management, Montclair State University, Montclair, NJ, March 18, 2014.
- Atia Amam, Meghana Kadam, Insulation material with more sustainable flame retardant properties, capstone project presentation – Sustainability in the Urban Environment Program, New York, NY, December 18, 2013 (presentation received 2nd place).
- Neel Patel, Jans, U. Investigation of the degradation of the brominated flameretardant, 1,2-dibromo-4-(1,2-dibromoethyl)cyclohexane (TBECH) with reduced sulfur species. Poster presented at the Annual Poster Presentation of the City College Academy for Professional Preparation, New York, NY, December 5, 2013.
- Kara Ng, Jans, U. Anaerobic degradation of 1,2,5,6,9,10-hexabromocyclododecane (HBCD) with polysulfide. Poster presented at the Annual Poster Presentation of the City College Academy for Professional Preparation, New York, NY, December 5, 2013.
- Jans, Urs, "How long do sediments stay contaminated?"-Persistent chlordane concentrations in Long Island Sound sediment: Implications from chlordane, 210Pb and 137Cs depth profiles. Seminar, Civil & Environmental Engineering, Temple University, Philadelphia, PA, November 8, 2013.
- John H. Wilson, Urs Jans, Isomer specific reaction of HBCD with reduced sulfur species in aqueous solution, Abstracts of Papers, 246th ACS National Meeting, Indianapolis, IN, United States, September 8-12, 2013. Poster presentation, September 11, 2013.
- Jans, Urs, "How long do sediments stay contaminated?"-Persistent chlordane concentrations in Long Island Sound sediment: Implications from chlordane, 210Pb and 137Cs depth profiles. Seminar, Chemistry Department, Union College, NY, May 30, 2013.
- Booyoung Lee, Rui Ding, Urs Jans, Pengfei Zhang, Reaction of organic iodine species in aerosols, Abstracts of Papers, 244th ACS National Meeting, Philadelphia, PA, United States, August 19-23, 2012. Poster presentation, August 22, 2012.
- John H. Wilson, Ka Wing Lo, Urs Jans, Debromination of HBCD-isomers by reduced sulfur species, Abstracts of Papers, 244th ACS National Meeting, Philadelphia, PA, United States, August 19-23, 2012. Poster presentation, August 22, 2012.
- Jacqueline Chou, Urs Jans, Degradation of tetrabromoethylcyclohexane (TBECH) with bisulfide in aqueous solution, Poster presented at the Sci-Mix Session as part of Project SEED, 244th ACS National Meeting, Philadelphia, PA, August 20, 2012.
- Jans, U., L. Yang, X. Li, P. Zhang, M. Melcer, Concentrations of DDTs and Dieldrin in Long Island Sound Sediment, Poster presented at the Environmental Sciences: Water; Gordon Research Conference, Holderness School, Plymouth, NH, June 27, 2012.
- Bruton, T., H. Liu, U. Jans, F. Doyle, D. Sedlak, Heterogeneous Activation of Persulfate by Aquifer Materials for Contaminant Oxidation. Poster presented at the Environmental Sciences: Water; Gordon Research Conference, Holderness School, Plymouth, NH, June 27, 2012.
- Jans, Urs, Persistent chlordane concentrations in Long Island Sound sediment. Seminar – Chemistry Department, CCNY, April 16 2012.

- Jans, Urs, Persistent chlordane concentrations in Long Island Sound sediment: Implications from chlordane, 210Pb and 137Cs depth profiles. Seminar, San Francisco Estuary Institute, Oakland, CA, October 26, 2010
- Jans, Urs, Persistent chlordane concentrations in Long Island Sound sediment: Implications from chlordane, 210Pb and 137Cs depth profiles. Environmental Engineering Seminar, Civil and Environmental Engineering, UC Berkeley, Berkeley, CA, September 24, 2010.
- Vo, T., Lo, K.W., Jans, U. Reaction rate constant of hexabromocyclododecane with bisulfide. Poster presented at the Sci-Mix Session as part of Project SEED, ACS National Meeting, Boston, MA, United States, August 22-26, 2010.
- Jans, U., Vo, T., Lo, K.W. Reaction rate constant of hexabromocyclododecane with bisulfide. Poster presented at the Environmental Sciences: Water; Gordon Research Conference, Holderness School, Plymouth, NH, June 23, 2010.
- Lo, K.W., Vo, T., Jans, U. "Degradation of 1,2,5,6,9,10-hexabromocyclododecane (HBCD) with bisulfide and polysulfide". Poster presented at the Annual Poster Presentation of the City College Academy for Professional Preparation, New York, NY, November 19, 2009.
- Jans, Urs, Persistent chlordane concentrations in Long Island Sound sediment: Implications from chlordane, 210Pb and 137Cs depth profiles. Seminar, Chemistry Department. York College of CUNY, Jamaica, NY, October 22, 2009.
- Saint Hilaire, D., Jans, U. "Reactions of tris-haloalkyl phosphates with reduced sulfur species. Presentation at the North East Regional Meeting of the ACS (NERM 09), Hartford, CT. October 9, 2009.
- Jans, U., He, J. "Reactions of diazinon, diazoxon, and pirimiphos-methyl with reduced sulfur species in well-defined aqueous solutions". Poster presented at the Environmental Sciences: Water; Gordon Research Conference, Holderness School, Plymouth, NH, June 24, 2008.
- Saint Hilaire, D., Guo, X., Ismail K., Jans, U. "Degradation of Tris(haloalkyl)phosphate under Anoxic Conditions. Poster presented at the Ninth Annual Celebration of Science, Engineering, and Mathematics at the Graduate Center of CUNY, New York NY, April 4, 2008
- Ismail, K., Jans, U., Saint Hilaire, D., Guo, X., Degradation of trihaloalkyl phosphates under anoxic conditions. Poster presented at the Pittcon2008, New Orleans, March 6, 2008.
- Jans, Urs, Persistent chlordane concentrations in Long Island Sound sediment: Implications from chlordane, 210Pb and 137Cs depth profiles. Seminar, Chemistry Department. College of Environmental Science and Forestry, SUNY, NY, October 25, 2007.
- Robinson, Philip, He, Juan; Jans, Urs, Reaction of Diazinon with Polysulfide in Aqueous Solution, Poster presented at the Sci-Mix Session as part of Project SEED, 234th ACS National Meeting, Boston, MA, United States, August 19-23, 2007 (2007).
- He, Juan; Jans, Urs. pH effect on hydrolysis of diazinon and diazoxon in aqueous solution. Abstracts of Papers, 234th ACS National Meeting, Boston, MA, United States, August 19-23, 2007 (2007). Poster presentation
- Yang, Lijia; Li, Xiqing; Crusius, John; Jans, Urs; Melcer, Michael E.; Zhang, Pengfei. Persistent chlordane concentrations in Long Island Sound sediment: Implications from chlordane, 210Pb and 137Cs depth profiles. Abstracts of Papers, 234th ACS National Meeting, Boston, MA, United States, August 19-23, 2007 (2007). Talk given by U. Jans
- Guo, Xiaofen; Jans, Urs. Fate of methyl parathion in natural sulfidic water. Abstracts of Papers, 234th ACS National Meeting, Boston, MA, United States, August 19-23, 2007 (2007) Talk given by X. Guo
- He, Juan; Jans, Urs. Role of reduced sulfur species in promoting the degradation of organophosphate pesticides in aqueous solution. Abstracts of Papers, 234th ACS

- National Meeting, Boston, MA, United States, August 19-23, 2007 (2007), Poster
Saint Hilaire, D., Ismail K., Jans, U. Degradation of Tri(haloalkylphosphate under Anoxic
Conditions. Poster presented at the Eight Annual Celebration of Science, Engineering,
and Mathematics at the Graduate Center of CUNY, New York NY, April 13, 2007
- Jans U., Fate of Insecticides in the Environment – Reaction of Organophosphates with Reduced
Sulfur species. Seminar, Chemistry Department. Long Island University, Brooklyn, NY,
November 28, 2006.
- Yang L., Li X., Melcer, M.E., Zhang, P., Jans U., Determination of chlordane and other
chlorinated pesticides in sediment from Long Island Sound. Talk given at 27th Annual
SETAC Meeting, Montreal, November 5-9, 2006.
- Jans, U., Saint Hilaire, D., Guo, X., Ismail, K., Degradation of trihaloalkyl phosphates under
anoxic conditions. Poster presented at the 27th Annual SETAC Meeting, Montreal,
November 5-9, 2006.
- Li, X., Yang, L., Mercer, M.E., Jans, U., Zhang, P., Absence of enantioselective biodegradation
of chlordane in Long Island Sound sediment. Poster presented at the 27th Annual SETAC
Meeting, Montreal, November 5-9, 2006.
- Jans, U., Saint Hilaire, D., Guo, X., Ismail, K., Degradation of trihaloalkyl phosphates under
anoxic conditions. Poster presented at the Environmental Sciences: Water; Gordon
Research Conference, Holderness School, Plymouth, NH, June 27, 2006.
- Guo, X., Jans, U., Reaction of methyl Parathion with Reduced Sulfur Species in Natural Sulfidic
Water. Poster presented at the Environmental Sciences: Water; Gordon Research
Conference, Holderness School, Plymouth, NH, June 26, 2006.
- Yang, Lijia; Li, Xiqing; Wu, Youxian; Melcer, Michael; Zhang, Pengfei; Jans, Urs.
Concentration and chiral signatures of chlordane in surficial sediments from Long Island
Sound. Poster presented at the Junior Scientist Conference 2006, April 19th – 21st 2006,
Vienna University of Technology, 2006.
- Gan, Qiu; Jans, Urs. The role of reduced sulfur species in the degradation of thiometon and
disulfoton in simulated coastal environments. Poster presented at the Junior Scientist
Conference 2006, April 19th – 21st 2006, Vienna University of Technology, 2006.
- He, Juan; Jans, Urs. Poster presented at the Seventh Annual Celebration of Science, Engineering,
and Mathematics at the Graduate Center of CUNY, New York NY, April 7, 2006.
- Yang, L.; Wu, Y.; Jans, U.; Zhang, P.; Melcer, M. E. Concentration and enantiomeric fractions
of chlordane in sediments from Long Island Sound. Talk given by L. Yang at the 231st
ACS National Meeting, Atlanta, GA, United States, March 26-30, 2006.
- Y. Wu, L. Yang, P. Zhang, U. Jans, M.E. Melcer. Natural Attenuation of Organochlorine
Pesticides in Sediments from Long Island Sound. Abstract, 5th National Conference on
Pharmaceutical and Endocrine Disrupting Chemicals in Water, March 2006.
- Wu, Tong; Jans, Urs. Kinetics and Mechanism of the Reaction of Organophosphorus
Insecticides with Reduced Sulfur Species, poster presented at the 26th Annual Meeting of
SETAC, Baltimore, MD, 13 – 17 November 2005.
- Gan, Qiu; Singh, Raphael; Jans, Urs. Role of reduced sulfur species in the degradation of naled
in aqueous solution. Talk given at the 26th Annual Meeting of SETAC, Baltimore, MD, 13
– 17 November 2005.
- Gan, Qiu; Singh, Raphael; Jans, Urs. Role of reduced sulfur species in the degradation of naled
in aqueous solution. Poster presented at the 230th ACS National Meeting, Washington,
DC, United States, Aug. 28-Sept. 1, 2005 (2005).
- Wu, Tong; Jans, Urs. Kinetics and mechanism of the nucleophilic substitution of
organophosphorothionate insecticides with reduced sulfur species. Poster presented at the
230th ACS National Meeting, Washington, DC, United States, Aug. 28-Sept. 1, 2005.

- Guo, Xiaofen; Jans, Urs. Effect of natural organic matter on the degradation of methyl parathion in aqueous hydrogen sulfide solutions. Poster presented at the 230th ACS National Meeting, Washington, DC, United States, Aug. 28-Sept. 1, 2005.
- T. Wu, U. Jans, Role of reduced sulfur species in promoting the degradation of organophosphorus insecticides in the environment, Poster presented at Einstein in the City - a student research conference, New York, NY, April 11, 2005.
- Q. Gan, U. Jans, Degradation of naled by reduced sulfur in well-defined aqueous systems. Poster presented at Einstein in the City - a student research conference, New York, NY, April 11, 2005.
- U. Jans, Fate of Insecticides in the Environment, Seminar at Brooklyn College, co-hosted by the Biology and Chemistry Departments, April 8, 2005.
- U. Jans, Fate of Insecticides in the Environment, Seminar at the Chemistry Department of Bronx Community College, March 18, 2005.
- X. Guo, U. Jans. Degradation of parathion-methyl in aqueous solutions containing natural organic matter. Talk given at the 228th ACS National Meeting, American Chemical Society, Division of Environmental Chemistry, Philadelphia, PA, August 22-26, 2004.
- T. Wu, J. H. Wilson Jr., M. H. Miah, U. Jans. Role of reduced sulfur species in promoting the degradation of organophosphorus insecticides in aqueous solutions. Talk given at the 228th ACS National Meeting, American Chemical Society, Division of Environmental Chemistry, Philadelphia, PA, August 22-26, 2004.
- X. Guo, T. Wu, U. Jans. The effect of natural organic matter for the degradation of chlorpyrifos-methyl in aqueous solutions. Poster presented at the 228th ACS National Meeting, Philadelphia, PA, United States, August 22-26, 2004.
- T. Wu, U. Jans. Role of reduced sulfur species in promoting the degradation of parathion and parathion-methyl in the environment. Poster presented at the 228th ACS National Meeting, Philadelphia, PA, United States, August 22-26, 2004.
- Q. Gan, U. Jans. Degradation of disulfoton, thiometon and phorate promoted by reduced sulfur species. Talk given at the 228th ACS National Meeting, Philadelphia, PA, United States, August 22-26, 2004.
- Q. Gan, R. Singh, U. Jans. Degradation of naled and dichlorovos promoted by bisulfide in well-defined aqueous system. Talk given at the 228th ACS National Meeting, American Chemical Society, Division of Environmental Chemistry, Philadelphia, PA, United States, August 22-26, 2004.
- F. Acheampong, T. Wu, U. Jans. Reaction of fenchlorphos with polysulfides. Poster presented at the Sci-Mix Session as part of Project SEED, 228th American Chemical Society Annual Meeting, Philadelphia, PA, United States, August 22-26, 2004.
- T. Wu, Q. Gan, X. Guo, U. Jans, Kinetics of the reactions of phosphorothionate triester insecticides with reduced sulfur species. Poster presented at the Environmental Sciences: Water Gordon Research Conference, Holderness School, Plymouth, NH, June 28, 2004.

- Q. Gan, U. Jans, Degradation of phorate and terbufos promoted by reduced sulfur species in well-defined aqueous system, Poster at Fifth Annual Celebration of Science, Engineering, and Mathematics at the Graduate Center of CUNY, New York NY, March 25, 2004.
- T. Wu, U. Jans, Reaction of Organophosphates with reduced sulfur species in aqueous Solutions, Poster at Fifth Annual Celebration of Science, Engineering, and Mathematics at the Graduate Center of CUNY, New York NY, March 25, 2004
- U. Jans, Fate of Pesticides in the Environment, Interdisciplinary Seminar Series given in the Science Division at the CCNY, New York, NY, December 15, 2003
- T. Wu, Q. Gan, U. Jans, Reactions of Organophosphates with Reduced Sulfur Species in Aqueous Solutions. Poster presented at 24th Annual Meeting of the Society for Environmental Toxicology and Chemistry, Austin, TX, November 9-11, 2003
- T. Wu, M.H. Miah, J.H. Wilson Jr., U. Jans. Reactions of organophosphate insecticides in aqueous solutions of reduced sulfur species. Poster presented at the 226th ACS National Meeting, New York, NY, United States, September 7-11, 2003, AGRO-041.
- T. Wu, M.H. Miah, J.H. Wilson Jr., U. Jans. Reactions of chlorpyrifos-methyl and parathion-methyl with reduced sulfur species. Poster presented at the 226th ACS National Meeting, American Chemical Society, Division of Environmental Chemistry, New York, NY, United States, September 7-11, 2003.
- U. Jans, Reactions of organophosphate insecticides with reduced sulfur species in aqueous solutions, seminar at the Swiss Federal Institute for Environmental Science and Technology (EAWAG), Dübendorf, Switzerland, July 2, 2003.
- T. Wu, U. Jans, Reaction of carbofuran, carbaryl with bisulfide (HS⁻) and polysulfide (S_{n2}⁻). Poster at Fourth Annual Celebration of Science, Engineering, and Mathematics at the Graduate Center of CUNY, New York NY, March 21, 2003.
- T. Wu, M.H. Miah, U. Jans, Reaction of chlorpyrifos-methyl with reduced sulfur species. Poster at Fourth Annual Celebration of Science, Engineering, and Mathematics at the Graduate Center of CUNY, New York NY, March 21, 2003.
- J.H. Wilson Jr., U. Jans, Degradation of methyl-parathion in a solution containing hydrogen sulfide. Poster presented at the Annual Poster Presentation of the City College Academy for Professional Preparation, New York, NY, November 21, 2002.
- J. Kaushal, U. Jans, The synthesis of O-methyl-O-4-nitrophenyl phosphorothionate diester; a degradation product of methyl parathion (inhibitor of AChE). Poster presented at the Annual Biomedical Research Conference for Minority Students (ABRCMS), New Orleans, LA, November 13-16, 2002.
- S. Tobierre, U. Jans, Determination of polysulfides in lake water. Poster presented at the AMP/AGEP Conference in LaCruces NM, September 11-14, 2002.
- U. Jans, Pesticides in the Environment, CCNY Summer Scholars Academy, City College, August, 1 2002.
- M. H. Miah, U. Jans, Reactions of Chlorpyrifos-Methyl with Reduced Sulfur Species. Poster presented at the Environmental Sciences: Water Gordon Research Conference, Holderness School, Plymouth, NH, June 26, 2002.
- M. L. Hladik, K. A. Lippa, U. Jans, A. L. Roberts, Measurement and Interpretation of Polysulfides in a Natural Water. Poster presented at the Environmental Sciences: Water Gordon Research Conference, Holderness School, Plymouth, NH, June 24, 2002.
- M. H. Miah, U. Jans, Reaction of Phosphorothionate Triesters with Reduced Sulfur Species, Poster, Annual Meeting Society of Environmental Toxicology and Chemistry, Baltimore, November 14, 2001.
- U. Jans, 2001, Predicting Rates and Products of Environmental Dehalogenation Reactions. Seminar, Chemistry Department. Long Island University, Brooklyn, NY, October 2, 2001.

- J. Kausal, U. Jans, 2000. Synthesis of O-methyl-O-4-nitrophenyl phosphorothioate diester. Poster presented at the Annual Poster Presentation of the City College Academy for Professional Preparation, New York, NY, November 16, 2000.
- H. Mian, U. Jans, 2000. Degradation of chlorpyrifos-methyl in hydrogen sulfide solutions. Poster presented at the Undergraduate Research Poster Session of the Division of Chemical Education, American Chemical Society Annual Meeting, Washington, DC, August 20-24, 2000.
- U. Jans, 1999. 1,2-Dibromo-1,2-diphenylethan: Eine mechanistische Probeverbindung für die reduktive Dehalogenierung durch reduzierte Schwefelverbindungen in der Gegenwart von Elektrontransfermediatoren. Seminar, Chemistry Department, Swiss Federal Institute of Environmental Science and Technology (EAWAG), Dübendorf, Switzerland, September 30, 1999.
- U. Jans, A.L. Roberts, 1998. 1,2-Dibromo-1,2-diphenylethane ((±)-SBr₂): A mechanistic probe of reductive dehalogenation by reduced sulfur species in the presence of electron transfer mediators. Paper presented at symposium on "Humic Substance Mediated Environmental Reactions", Environmental Chemistry Division, American Chemical Society Annual Meeting, Boston, MA, August 25, 1998.
- U. Jans, A.L. Roberts, 1998. 1,2-Dibromo-1,2-diphenylethane ((±)-SBr₂): A mechanistic probe of reductive dehalogenation by reduced sulfur species in the presence of electron transfer mediators. Poster presented at the Environmental Sciences: Water Gordon Research Conference, New England College, NH, June 15, 1998.
- U. Jans, J. Hoigné, 1997. Activated carbon and soot catalyzed transformation of dissolved ozone into OH-radicals, Paper presented at symposium on "Redox Reactions in Natural and Engineered Aqueous Systems", Environmental Chemistry Division, American Chemical Society Annual Meeting, San Francisco, CA, April 13, 1997.
- U. Jans, J. Hoigné, 1996. Role of photochemical reactions and photoreactants for the depletion of ozone in atmospheric waters, Poster presented at the Joint EC/EUROTRAC Workshop HALIPP-LACTOZ: Homogeneous and Heterogeneous Chemical Processes in the Troposphere, Strasbourg, France, September 25, 1995.
- U. Jans, J. Hoigné, 1995. Role of photochemical reactions and photoreactants for the depletion of ozone in atmospheric waters, Paper presented, Environmental Chemistry Division, American Chemical Society Annual Meeting, Chicago, IL, August 23, 1995.

Grants:

- Minority Serving Institutions Science, Technology, Engineering and Mathematics Research and Development Consortium (MSRDC) - U.S. Army Research Development and Engineering Command. "Using the Hard and Soft, Acids and Bases (HSAB) Theory to Predict Organophosphate – Target Interactions" PI, collaboration with E. Hohenstein, S. Simms, M. Lakshman (CCNY) \$120,815 (8/19/2017-8/18/18)
- Minority Serving Institutions Science, Technology, Engineering and Mathematics Research and Development Consortium (MSRDC) - U.S. Army Research Development and Engineering Command. "Using the Hard and Soft, Acids and Bases (HSAB) Theory to Predict Organophosphate – Target Interactions" PI, collaboration with E. Hohenstein and S. Simms (CCNY) \$101,764 (4/1/2016-3/31/17)
- NIH-U54, MSKCC-CCNY: Taxi Particulate Matter Study (TIPS). Pilot project under the CCNY-MSKCC U54 program, \$200,000. Jennifer Leng (PI at MSKCC), Pengfei Zhang & Urs Jans (Co-PIs at CCNY). Work performed at CCNY: Analyze PAHs in particulate

- matter collected in Taxis; analyze 1-hydroxypyrene in urine samples, \$75'000 (CCNY share), (1/1/16-12/31/17)
- PSC-CUNY Research Award: "Synthesis of Organo-Green Rust for the Remediation of Chlorinated Solvent Plumes"; \$ 3,499, (7/1/13-6/30/14).
- PSC-CUNY Research Award: "Isomer-specific reaction of hexabromocyclododecane with reduced sulfur species"; \$ 3,500, (7/1/12-6/30/13).
- CUNY Collaborative Incentive Research Grants Program together with Pengfei Zhang (EAS): *Identifying organic iodine species in aerosols using LC/MS/MS*, \$30,000 (9/30/11-9/28/12).
- PSC-CUNY Research Award: "Role of Reduced Sulfur Species in Promoting the Degradation of an emerging flame retardant"; \$ 3,500, (7/1/11-6/30/12).
- PSC-CUNY Research Award: "Role of Reduced Sulfur Species in Promoting the Degradation of Hexabromocyclododecane"; \$ 3,190, (7/1/10-6/30/11).
- PSC-CUNY Research Award: "Organophosphorus flame retardants and plasticizers in estuarine environment"; \$ 3,200, (7/1/09-6/30/10)
- PSC-CUNY Research Award: "Degradation of Oxamyl in Hydrogen Sulfide Solution Containing Natural Organic Matter"; \$ 3,300, (7/1/08-6/30/09).
- PSC-CUNY Research Award: "Mechanism of the Reaction of Trihaloalkylphosphates with Polysulfides: an NMR Study"; \$ 3,660, (7/1/07-6/30/08).
- PSC-CUNY Research Award: "Role of Reduced Sulfur Species in Promoting the Transformation of Tris(2,3-dibromopropyl) Phosphate"; \$ 2,780, (7/1/05-6/30/06).
- CUNY Research Equipment Grant Program together with Pengfei Zhang (EAS), Jeffrey Steiner (EAS), and Teresa Bandosz (Chemistry): Using Gas Chromatography/Mass Spectrometry to Study Polybrominated Diphenyl Ethers and Other Organohalogen Compounds in Urban Air; \$40,000 + 39,930.40, 2004.
- CUNY Collaborative Incentive Research Grants Program together with Kamal Ismail, Bronx Community College: "Degradation of Trihaloalkyl Phosphates under Anoxic Conditions"; \$ 60,000, (10/15/04-10/14/06).
- EPA: "Concentrations of Enantiomeric Fractions of Chlordane in Sediments from Long Island Sound"; collaboration with P. Zhang (CCNY), M. E. Melcer (US Merchant Marine Academy), \$299,728. (3/1/05 - 2/28/07).
- PSC-CUNY Research Award: "Role of Reduced Sulfur Species in Promoting the Transformation of Tri-(Dichloroisopropyl) Phosphate in Aqueous Coastal Environments"; \$ 3,500, (7/1/04-6/30/05).
- Herman Frasch Foundation: "Abiotic Transformation of Agrochemicals in Wetland Soils and Sediment"; \$ 200,000, (7/1/02-30/6/07).
- NSF: "CAREER-Fate of Contaminants in the Environment"; \$ 576,785. (2/1/02-1/31/07)
- NOAA-CREST: "Remote Sensing Cooperative Science Center", R.M Khanbilvardi (PI), \$7,500,000; participating research investigator studying the chemistry of aerosol particles in the aqueous phase, (1/2/02-1/2/05).
- PSC-CUNY Research Award: "Role of Reduced Sulfur Species in Promoting the Transformation of Flame Retardants in Aqueous Coastal Environments"; \$ 4,150, (7/1/03-6/30/04).
- PSC-CUNY Research Award: "Role of Reduced Sulfur Species in Promoting the Transformation of Naled in Aqueous Coastal Environment"; \$ 3,400, (7/1/02-6/30/03).

Petroleum Research Fund: "Role of Reduced Sulfur Species in Promoting the Transformation of Phosphorothionate Triesters in Estuaries and Salt Marshes"; \$ 35,000, (9/1/02-8/31/04).

PSC-CUNY Research Award: "Analysis and Formation Kinetics of Polysulfides in Natural Aqueous Environment"; \$ 4,600, (7/1/01-6/30/02).

CUNY Collaborative Incentive Research Grants Program together with James Fahey, Bronx Community College: "Abiotic Transformation of Insecticides under Anoxic Conditions"; \$ 30,000, (11/1/00-10/31/02).

PSC-CUNY Research Award:

"Role of Reduced Sulfur Species in Promoting the Transformation of Chlorpyrifos in Aqueous Coastal Environment"; \$ 2,697, (7/1/00-6/30/01).

Grant proposal submitted:

Fellowships&Awards:

2018 Provost's Outstanding Teaching Award, City College of New York, Urs Jans

James Whittam Award, Spring 2018, Xianmiao Zhang

Susan Scher Kogan Scholarship, Spring, 2018, Shirley Dong

ACS-SEED fellow ship: Summer 2016, Alejandra Aguilar and Johanna Gonzalez

ACS-SEED fellow ship: Summer 2013, Jacqueline Chou

ACS-SEED fellow ship: Summer 2012, Jacqueline Chou

Certificate of Appreciation by ACS Publications for valuable contribution and dedicated service in the peer review of manuscripts submitted to ACS Journals, 2011

ACS-SEED fellow ship: Summer 2010, Thu Vo

ACS-SEED fellow ship: Summer 2009, Thu Vo

ACS-SEED fellow ship: Summer 2008, Michael Rodriguez

Best Poster, Einstein in the City 2, Student Research Conference, Hyeongeun "Anselmo" Kim, October 30-31, 2007.

ACS Travel Award, Division of Agrochemicals, Poster presentation at ACS Meeting August 2007, Juan He

ACS-SEED fellow ship: Summer 2007, Philip Robinson

SETAC Graduate Student Travel Fellow to give a talk at the 27th Annual SETAC Meeting, Montreal, November 5-9, 2006, Lijia Yang.

ACS-Seed fellowship: Summer 2006, Philip Robinson

SETAC Graduate Student Travel Fellow to give a talk at the 26th Annual Meeting of SETAC, Baltimore, MD, November 13 – 17, 2005, Gan Qiu

ACS-Seed fellowship: Summer 2005, Frank Acheampong

ACS-Seed fellowship: Summer 2004, Frank Acheampong

Dr. Sol Heiligman Scholarship in Environmental Science, Spring 2004, John H. Wilson

Benjamin Harrow Memorial Award, Spring 2004, John H. Wilson

ACS-Seed fellowship: Summer 2003, Jennifer Estrella

ACS-Seed fellowship: Summer 2002, Lamont Nock, "Reaction of Disulfoton, an organophosphate pesticide with polysulfides"; \$2,000

NYC LSAMP Research Assistantship: Summer 2002, Sybil Tobierre, "Determination of polysulfides in laboratory solutions via gaschromatography and its application to natural waters"; \$3,000

ACS-Seed fellowship: Summer 2000, Hasan Mian

“Reaction of Chlorpyrifos-methyl with hydrogensulfide/bisulfide in aqueous solution”, \$2,000. Mr. Mian also received the Alfred & Isabel Baber Scholarship

Pfizer PEPARE fellowship, 2000: Jyoti Kaushal, “Synthesis of O-methyl-O-nitrophenyl phosphorothioate diester”; \$ 5,000

ACS-Seed fellowship, Summer 1999: Hasan Mian,

“Hydrolysis of Chlorpyrifos-methyl”; \$1,750

Fellowship for Young Researchers, Swiss Science Foundation, 1996

Students working in my lab

Postdoctoral Research Fellow:

Xiaofen Guo Jan. 2003 – September 2007

Kinetics and mechanism of the degradation of methyl parathion in aqueous hydrogen sulfide solution: Investigation of natural organic matter effects

Ph.D. students:

Tong Wu Fall 2000 – Januar 2007

Role of Reduced Sulfur Species in Promoting the Transformation of Insecticides in the Environment

Qiu Gan Fall 2000 – February 2007

Investigation of Transformation of Disulfoton and Its Analogues Promoted by Reduced Sulfur Species

(Fuji, Chicago, IL)

Lijia Yang Fall 2003 – July 2007

Chiral Analysis of Chlordane in Long Island Sound Sediments

(Postdoc at Virginia Tech, MS-facility manager CCNY)

Juan He Spring 2003 – 2010 (did not graduate)

Role of Reduced Sulfur Species in Promoting the Transformation of Diazinon and its Analogues in the Environment

Dickens St. Hillaire Spring 2003 – June 2011

Fate of Halogenated Flameretardants in Sulfidic Environment

Sherry Zhao Spring 2006 – 2010 (co-advised with P. Zhang)

Analysis of Hormones in the Environment

Cristina Veresmorteau Fall 2011 – Fall 2016

Analysis of Brominated Aliphatic Flameretardants in Sediments

Dipendra Kundu Summer 2012 – Spring 2013 (co-advised with P. Zhang)

Xianmiao Zhang Fall 2014 - present

Fate of Hexabromocyclododecane in Sediments – Stereoisomer Specific Reactions with Bisulfide and Fe(II)-bearing Iron Oxides

Master's Students

- Chunxiao Zheng

Hydrolysis of Chlorpyrifos-methyl Spring 2000

(graduated June, 2001)

- Ricky Kissoon

- Hydrolysis of Methylparathion* Spring 2000 - Fall 2000
- M. Hasan Miah Fall 2000 - Spring 2002
Reaction of Chlorpyrifos-methyl with Hydrogensulfide/Bisulfide in Aqueous Solution
(graduated September, 2002)
- Jian Cai Spring 2001 - Fall 2003
Characterization of Organic Compounds in Atmospheric Aerosol
(graduated Winter 2003, Thesis Title: Organic Aerosol Screening and Identification
Using Gas Chromatograph-Mass Spectrometer)
- Helen Otteno Spring 2002
Analysis of Polysulfides in Natural Aqueous Environment
(graduated Fall 2000, Forest Laboratories, Commack, NY)
- Kurshid Hossain Fall 2002
Reaction of Fenchlorfos with Bisulfide in Aqueous Solution
(graduated Fall 2003)
- Sybil Tobierre Fall 2002
Formation Kinetics of Polysulfides
(graduated Fall 2003 - Ph.D. Program at U. Arizona)
- Raphael Singh Fall 2002 - Winter 2003
Reactions of the Insecticide Naled in Water
(graduated Winter 2003, Thesis Title: Role of Reduced Sulfur Species in Promoting the
Transformation of Naled and Dichlorovos in Aqueous Coastal Environment)
- Qing Ren Spring 2003
Reaction of Fenchlorphos in Aqueous Iodide Solution
- Saumil Sioni Fall 2007 – Spring 2009
*H-NMR Study of Dichlorovos Degradation Through Hydrogen Sulfide and Reduced
Sulfur Species*
- Senahid Halilovic Spring 2008, Spring 2009
Thesis title: "Degradation of Methomyl"
- Bing Lu Spring 2008
*Kinetics and Mechanism of the Degradation of Oxyamyl by Hydrogen Sulfide mediated
with NOM*
- Morshed MD Golam Spring 2009
Reaction of TCEP with NOM and Bisulfide
- Islam MD Shadiquil Spring 2009
Reaction of TCEP with NOM and Bisulfide
- Jie Gao Fall 2008 – Fall 2009
Degradation of Oxamyl
- Vinay K. R. Jamagan Fall 2009
Study of Hexabromocyclododecane's Hydrolysis
- Arlene Pena Fall 2011
Degradation of Tetrabromoethylcyclohexane by Hydrolysis and Reduced Sulfur Species
- John H. Wilson Spring 2012 – Fall 2013
*Thesis title: Isomer Specific Reaction of Hexabromocyclododecane with Reduced Sulfur
Species in Aqueous Solution*
Sheena Bowman Fall 2014 – Fall 2015
Thesis title: Degradation of Carbon Tetrachloride using Hydrophobic Green Rust
- Alvin Lee Fall 2014
Synthesis of Tetrabromocyclododecene
- Samsondeen Raheem Fall 2015

The use of a single-step extraction/clean-up method for the determination of 1,2,5,6,9,10-hexabromocyclododecane (HBCD) concentration in New York's Long Island Sound sediments

- Ariel Lawson Spring 2016

Reaction of Tetrabromocyclododecene with Bisulfide

- Kristian Roopnarine Fall 2017 -

Undergraduate Students

- DaNa L. Carlis Summer 1999

Method Development for a Study of the Degradation of Chlorpyrifos-Methyl in Water Using Reverse Phase High Performance Liquid Chromatography

- Jyoti Kaushal Summer 2000 - Fall 2001

Synthesis of O-methyl--O-4-nitrophenol phosphorothioate diester

- John H. Wilson Jr. Spring 2002 - Spring 2004

Degradation of Methyl-Parathion in Solutions Containing Hydrogen Sulfide

(graduated with honors - research)

- Kurshid Hossain Fall 2001 - Spring 2002

Hydrolysis and Determination of Rate Constants of Fenchlorphos with Bisulfide in Water

- Sybil Tobierre Spring 2002

Analysis of dissolved S(0) by the Triphenyl Phosphine Method

- Hyeougeu Kim Fall 04 - Spring 05, Spring 07-Fall 07

Reaction of Fenthion with Reduced Sulfur Species

- Lev Sviridov Fall 2004 - Spring 2005

Analysis of Heavy Metal in Aerosol Particles (co-mentor: Jeff Steiner, EAS)

- Malick Samateh Summer 2005

Kinetics of Tris(Chloroethyl)Phosphate (student from Bronx Community College)

- Modupe Omotosho Fall 2005 – Spring 2007

Analysis and Kinetics Brominated Flameretardants

- Saumil Sioni Jan 2006 – Summer 2007

Monitoring Reaction Kinetics by NMR

- Ka Wing Lo Fall 2008 – Fall 2010

Reaction of HBCD with Bisulfide in Methanol

- Sumon Saha Roy Fall 2008 – Fall 2010

Reaction of HBCD with Bisulfide in Methanol

- Ashrafur Rahman Spring 2013

- Kara Ng Spring 2013- Fall 2014

Reaction of HBCD with Bisulfide in Methanol/Water

- Neel Patel Summer 2013-Fall 2014

Reaction of TBECH with Bisulfide

- Laura-Liisa Nantis Spring 2014 – Spring 2015

Reaction of Chlorpyrifos-methyl with Boehmite and Bisulfide

- Dariela Rodriguez Fall 2014 – Fall 2015

Reaction of HBCD with Thiosulfate

- Orysa Kichula Fall 2014 – Spring 2015

Hydrolysis of HBCD at high pH

- Ismaila Sanogo Summer 2014 – Spring 2015

Reaction of HBCD with Polysulfide in Water/Methanol

- Katherine Ferreras Fall 2015 – Fall 2017
Characterization of Surfactant Modified Green Rust
- Aicha Bendia Spring 2016 – Fall 2017
Reaction of Organophosphates with Fluoride in Water
- Adeline Hernandez Fall 2016 – Fall 2017
LC-MS method for the analysis of tetrabromocyclododecene
- Shirley Dong Spring 2018 –
Reaction of HBCDD in goethite/Fe₂₊ suspensions

High School Students (Project SEED)

- DaNa L. Carlis Summer 1999
Method Development for a Study of the Degradation of Chlorpyrifos-Methyl in Water Using Reverse Phase High Performance Liquid Chromatography
- Hasan Mian Summer 2000 & 2001
Reaction of Methyl-Parathion with Bisulfide in Aqueous Solution
- Lamont Nock Summer 2002
Reaction of Disulfoton with Polysulfides
- Jennifer Estrella Summer 2003
- Frank Acheampong Summer 2004 & 2005
Reaction of Fenchlorphos with Polysulfide
- Philip A. Robinson Summer 2006 & 2007
Reaction of Diazinon-Oxon with Polysulfide
- Michael Rodriguez Summer 2008
- Thu Vo Summer 2009 & 2010
- Jacqueline Chou Summer 2012 & 2013
Reaction of TBECH with reduced sulfur species. She submitted her project to the New York Science and Engineering Competition where she received First Award and Navy Award.
- Frank Huang Summer 2015 – Summer 2017(not SEED)
- Alejandra Aguilar Summer 2016
- Johanna Gonzalez Summer 2016

Thesis Committee

- Ph.D.
- Svetlana Bashkova, Chemistry, CCNY Mentor: Prof. Badosz,
 - Gonca Talu, Civil Engineering, CCNY, Mentor: Prof. Diyamandoglu,
 - Yvette Beckles, Civil Engineering, CCNY, *Interactions Occurring Between Halide Ions and Aqueous Ammonia Under Ultra Violet Light With Low Pressure Mercury Lamps* Jan 2007, Mentor. Prof. Diyamandoglu
 - Vilma M. Arriaran La Torre, Civil Engineering, CCNY, *Optimization of Use of FTIR to Measure the Composition of PM_{2.5}* July 2010, Mentor: Prof. Wittig,
 - Therese Soosairaj, Chemistry, Bronx Community College, Dec 2010 Mentor: Prof. Meleties, Prof. Lakshman
 - Fredesvinda Bonotan Dura, Earth and Environmental Science, Brooklyn College, *Dissolved Organic Nitrogen and Its Role in the Kinetics of Nitrogen Uptake and Growth of Macroalgae, Ulva Lactuca.* August 2011, Mentor: Brett Branco,

- Lilja Nielsen, ESE, CCNY, Sewage Sludge and Fish Waste-Based Materials as Adsorbents of Pharmaceuticals from Aqueous Phases, Fall 2013 – 2016, Mentor: Prof. Bandosz.
- Liquing Jin, Biochemistry, CCNY, Metabolomic Profiling of FHT RNAi-Silenced Potato Using LC-MS and NMR, Fall 2013 – 2016, Mentor: Prof. Stark
- Saumik Panja, Environmental Management, Montclair State University, Spring 2014 – 2017, Mentor: Profs. Sarkar and Deng
- Hadeer Nagy Ahmed Saleh, “Groundwater Treatment Using Nano-Green Rust Intercalated with Benzoic Acid, Alexandria University, Egypt, External Examiner, April 2015, Mentors: Alaa El-Din Ramadan Mostafa, Anwar A. El Fiky
- Quincy Edwards, “Caffeine and Other Emerging Contaminants in Ground Water, Surface Water and Wastewater in Barbados, West Indies”, University of the West Indies, Barbados, External Examiner, May 27, 2016, Mentors: S. Kulikov, L. Garner-O’Neale
- Iv Kraja, “TBD”, 2018 – present, Mentor: Mark Biscoe

Master’s

- Rola Beydoun, Chemistry CCNY, March 2009
- Gregory A. Cruikshank, Chemistry CCNY, *Design and Synthesis of Acetaminophen Small Molecule Gelators*, May 2007
- Dennis G. Buchanan, Chemistry CCNY, *Synthesis of N₆-(6-Aminobenzo(a)pyrenyl)deoxyadenosine 3’phosphoramidite via palladium catalyzed C-N bond coupling reaction*, May 2002
- Adil H. Ansari, Chemistry CCNY. Mentor Prof. T. Bandosz, *βSewage Sludge-Polymer Derived Materials as Hydrogen Sulfide Absorbent*, Fall 2004
- Chris Rodriguez, Bronx Community College/CCNY. *Synthesis of Alynlylfuranosides*. Mentors Profs. P. Meleties/M. Lakshman, Dec, 2010
- BooYoung Lee, EAS, CCNY, Removal of antibiotics from contaminated waters using natural zeolite, Mentor Prof. P. Zhang. August 2012
- Amani M. Ebrahim, Chemistry, CCNY, *Doping of Metal Organic Framework (UiO) for NO₂ Adsorption and Ambient Conditions*. Mentor Prof. Bandosz, May 2013
- Alejandro Smith, EAS, CCNY, *Simultaneous adsorption of 11 volatile organic compounds by an activated carbon made from polystyrene sulfonic acid-based organic salt*. Mentor Prof. Zhang. May 2014