Chad T. Jafvert



a. Invited Refereed Book Chapters

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c. Refereed Journal Communications or Notes

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- 2. Jafvert, Chad T. "Biological Remediation of Contaminated Sediments," *Journal of Great Lakes Research*, 16: 337-338, 1990, (an Invited Editorial).
- 3. Phillips, Lorin W. and Chad T. Jafvert, "Comment on Application of Permeant/Polymer Diffusional Model to the Desorption of Polychlorinated Biphenyls from Hudson River Sediments," *Environmental Science & Technology*, 29, 283-284, 1995.
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- 9. Ketcham, Michael, L., V. Prasad Kunchakarra, Chad T. Jafvert* "Urban Targeting of Nonpoint Source Pollution in the Grand Calumet River Watershed", Final report to the Lake County Soil and Water Conservation District, Crown Point, IN, 92 pages, December 15, 1992.
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- 19. Hyun, S., C. T. Jafvert, B. Jenkinson, C. Enfield, P. S. C. Rao, and L. S. Lee, "Final Report for the Project Entitled: Measuring the Flow of Water through Coal-Tar Impacted Sediment in the Grand Calumet River at a Former MGP Site, Hammond, IN", prepared for NiSource, 801 E. 86th Avenue, Merrillville, IN 46410, submitted as three sub-reports reporting on Task 1 (25 pp.), Task 2 (72 pp.) and Task 3 (19 pp.) accomplishments, June, 2006.
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- 25. Jafvert, C. T., "Activity Report for June 10-17, 2002 visit to Barbosa Colombia (workshop activities Proyecto de Filtros Lentos de Arena", submitted to Kimberly Clark Corporate Environmental Group, June 21, 2012.
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- 27. Jafvert, C. T.; Howarter, J. "Activity Report for March 1-6, 2014 visit to Medellin and Barbosa Antioquia, Colombia", submitted to Kimberly Clark Corporate Environmental Group, March 7, 2014.
- 28. Jafvert, C. T. "2014 Activities Related to the 2013 Chinese Visiting Scholars Network Reciprocal Travel Grant, Submitted to the Purdue University China National Academy of Sciences Ecopartnership, August, 27, 2014.
- 29. Whelton, A. J., Ra, K., Teimouri Sendesi, S.M, Nuruddin, M., Li, X., Howarter, J.A., Youngblood, Y.P., Jafvert, C.T., & Zyakyina, N. "Contaminant Release from Storm Water Culvert Rehabilitation Technologies: Understanding Implications to the Environment and Long-Term Material Integrity", (U.S. Federal Highway Administration Transportation Pooled Fund (TPF)-5(339)). West Lafayette, IN: Purdue University. https://doi.org/10.5703/1288284317089, 2019.

e. Other

1. Ketcham, Michael, L., Chad T. Jafvert, "Urban Targeting of Nonpoint Source Pollution in the Grand Calumet River Watershed", **NPS-NEWS Notes**, U.S. EPA, Office of Water, April, 1993.

2. INVITED PRESENTATIONS AND PROCEEDINGS

a. Keynote, Plenary, and Distinguished lectures

- 1. Jafvert, C.T., Hou, W.-C., Chen C.-Y. "Environmental photochemical reactions of single-walled nanotubes (SWNTs) in aqueous suspensions", (*invited keynote talk*) presented at the 241st ACS National Meeting, Anaheim, CA, March 27-31, 2011.
- 2. Jafvert, C.T., Hou, W.-C., Chen C.-Y. "Sunlight-Mediated Reactions Involving C₆₀ and Functionalized Single- Walled Carbon Nanotubes in the Aquatic Environment", (*invited plenary lecture*) presented at the 21st Inter-American Photochemical Society Meeting, Mendoza, Argentina, May 17-20, 2011.
- 3. Jafvert, C.T. "Overloading Nature with Chemicals at Parts per Trillion to Parts per Hundred Concentrations" 2011 Inaugural Richard L. Valentine Distinguished Lecture and Award in Civil and Environmental Engineering, The University of Iowa, Department of Civil and Environmental Engineering, October 28, 2011.
- 4. Jafvert, C.T. "Contaminated Sediments, Wetlands, Environmental Monitoring, and Slow Sand Filters: A Discussion of Research", presented at a Conferment Ceremony to confer "Guess Professor" status on Chad Jafvert at Southeast University, Nanjing China, January 9, 2013.

- 5. Jafvert, C.T. "Monitoring and Mitigating Stormwater Runoff from Agricultural Fields and Urban Buildings" Two Case Studies" a keynote talk presented at the 16th International Rainwater Catchment Systems Association (IRCS) Conference in Beijing/Nanjing, China, July 1-4, 2013.
- 6. Wiener, J., Nies, L., Jafvert, C., "Assessment of Water Use and Reuse in the Wabash River Watershed", a plenary lecture given at the Indiana Association for Floodplain and Stormwater Management Annual Conference, Pokagon State Park, Angola, IN, September 11-13, 2013.
- 7. Jafvert, C.T. "Point-of-Use Drinking Water Treatment in Developing Countries", a Plenary talk presented at Coniiti 2019 (Congreso Internacional de Innovación y Tendencias en Ingeniería ((International Congress of Innovations and Engineering Trends), at the Convention Center of the Universidad Católica de Colombia, Bogotá, Colombia, October 2-4, 2019.

b. Published Abstracts or Proceedings

- Jafvert, Chad T. and Richard L. Valentine, "A Unified Chlorine-Ammonia Speciation and Fate Model," Proceedings of the 15th Universities Forum, American Water Works Association (AWWA) Annual Conference, Denver, Colorado, June, 1986.
- 2. Valentine, Richard L. and Chad T. Jafvert, "Experimental Verification of a Unified Chlorine-Ammonia Reaction Model," Published Extended Abstracts of the Annual American Society of Civil Engineering (ASCE) Meeting, Cincinnati OH, July 1986.
- 3. Jafvert, C. T. and N. L. Wolfe, "Degradation of Selected Halogenated Ethanes in Anoxic Sediment-Water Systems," Presented at the Annual Society of Environmental Toxicology and Chemistry (SETAC) Meeting, Alexandria, Virginia, November, 1986.
- 4. Jafvert, C. T. and N. L. Wolfe, "Degradation of Halogenated Ethanes in Selected Media," Published Extended Abstracts of the American Chemical Society Meeting, Environmental Chemistry Division, Denver, Colorado, April, 1987.
- 5. Valentine, R. L., S. W. Leung, and C. T. Jafvert, "Effect of Inorganic Composition of the Kinetics of Chloramine Decomposition in the Presence of Excess Ammonia," Published Extended Abstracts of the American Chemical Society Meeting, Environmental Chemistry Division, New Orleans, Louisiana, September, 1987.
- 6. Jafvert, C. T., "Partitioning of Anionic Organic Compounds to Soils and Sediments," Presented as a poster at the Annual Society of Environmental Toxicology and Chemistry (SETAC) Meeting, Arlington, Virginia, November, 1988.
- 7. Jafvert, C. T. and J. Rogers, "Enhancement of Bioremediation in Soils, Sediments, and Subsurface Materials with Surfactants and Solubilizing Agents," Proceedings of the AWMA/EPA International Symposium on Hazardous Waste Treatment: Biosystems for Pollution Control, Cincinnati, Ohio, February 20-23, 1989.
- 8. Jafvert, C. T., "Influences of Surfactants on the Distribution of Hydrophobic Organic Compounds in Environmental Systems," Presented at the Annual Society of Environmental Toxicology and Chemistry (SETAC) Meeting, Toronto, Canada, November, 1989.
- 9. Jafvert, C. T., J. Rogers, and P. Van Hoof, "Surfactant/Sorption Effects upon Biodegradation," Proceedings of the Bioremediation of Hazardous Wastes Symposium: U.S. EPA's Biosystems Technology Development Program, Arlington, Virginia, February, 1990.
- 10. Van Hoof, P., and C. T. Jafvert, "Influence of Nonionic Surfactants on the Anaerobic Dechlorination of Hexachlorobenzene," Proceedings of the Bioremediation of Hazardous Wastes Symposium: U.S. EPA's Biosystems Technology Development Program, Falls Church, Virginia, April 1991.
- 11. Van Hoof, P., and C. T. Jafvert, "Influence of Nonionic Surfactants on Hexachlorobenzene Degradation," Presented at the 12th Annual Society of Environmental Toxicology and Chemistry (SETAC) Meeting, Seattle, Washington, November 3-7, 1991.
- 12. Jafvert, C. T., P. L. Van Hoof, and J. K. Heath, "Distribution and Degradation of Halogenated Organic Compounds in Surfactant-Amended Sediment Slurries," Published Extended Abstracts of the 203rd

- American Chemical Society Meeting, Environmental Chemistry Division, San Francisco, April 5-10, 1992
- 13. Jafvert, C. T., and P. L. Van Hoof, "A QSAR for Solubilization of Nonpolar Compounds by Nonionic Surfactant Micelles," Published Extended Abstracts of the 207th American Chemical Society Meeting, Environmental Chemistry Division, San Diego, CA, March 13-18, 1994.
- 14. Chu, W., and C. T. Jafvert, "Direct Photoreduction of Hexachlorobenzene Solubilized within Surfactant Micelles," Published Extended Abstracts of the 207th American Chemical Society Meeting, Environmental Chemistry Division, San Diego, CA, March 13-18, 1994.
- 15. Ketcham, M. L., Chad T. Jafvert, and Bernard A. Engel, "A GIS Toolbox for Targeting Nonpoint Source Pollution in Urban Areas," presented at the National Conference on Environmental Problem Solving with Geographic Information Systems, sponsored by the U.S. EPA, Cincinnati OH, September 21-23, 1994.
- 16. Jafvert, C. T., B. K. Vogt, and J. Fabrega, "Induced Desorption of DDT, DDD, and DDE from a Contaminated Sediment," to be presented at The 209th American Chemical Society Meeting, Environmental Chemistry Division, Anaheim, CA, April 2-6, 1995.
- 17. Yuan, C., and C. T. Jafvert "Revisiting Counterion Binding to Micelles: The Double-Layer Model Applied to the Calcium, Sodium, Dodecylsulfate Systems," presented at the 209th American Chemical Society Meeting, Environmental Chemistry Division, Anaheim, CA, April 2-6, 1995.
- 18. Yuan, C., and C. T. Jafvert, "Assessing Surfactant Mixtures for Soil Remediation," presented at the Annual AWMA Meeting, San Antonio, Texas, June 19-23, 1995.
- 19. Diehl, C., C. Jafvert, and R. Larson, "Photochemical Reactions of 2,4-Dinitrotoluene in Surfactant Solutions," presented at the 210th American Chemical Society Meeting, Environmental Chemistry Division, Chicago, IL, August 21-26, 1995.
- 20. Nyman, A. K., M. C. Nyman, L. S. Lee, and C. T. Jafvert, "Sorption of Aniline and α-Naphthylamine by Three Silty Clay Loams," presented as a poster at the Annual Soil Science Society of America Conference, St. Louis, MO, October 29- November 2, 1995.
- 21. Chu, W., and C. T. Jafvert, "The Photodecay of Polychlorobiphenyls in Surfactant Solutions A Remediation Process for Contaminated Sediments," 2nd IAWQ specialized conference on Hazard Assessment and Control of Environmental Contaminants in Water - the Interface between Environmental Engineering and Environmental Science, Copenhagen, Denmark, June 29-30, 1995.
- 22. Jafvert, Chad T., "Remediation Technology Status Report: Surfactants and Cosolvents," presented at Emerging Technologies in Hazardous Waste Management VIII, Birmingham, AL, September 8-12, 1996.
- 23. Ferra, J., L. S. Lee, C-.C. Lin, and C. T. Jafvert, "The efficacy of Sodium Dodecyl Benzene Sulfonate in Reducing Leachate Acidity from an Active Coal Pile," presented at the Annual Soil Science Society of America Conference, Indianapolis, IN, November 3-6, 1996.
- 24. Fan, C., C. T. Jafvert, and L. S. Lee, "Solubilities of PAHs in Alcohol-Water Mixtures," presented at the Annual Soil Science Society of America Conference, Indianapolis, IN, November 3-6, 1996.
- 25. Strathmann, T. J., C. T. Jafvert, and L. S. Lee, "Ion Association of Inorganic Cations with Nitro-Phenolates in Octanol," presented at the Annual Soil Science Society of America Conference, Indianapolis, IN, November 3-6, 1996.
- 26. Jafvert, Chad T., W. Chu, K. Marley, and R. A. Larson, "Phototransformations of PCBs in Surfactant Micelle Solutions," presented at the First International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Battelle), Monterey, CA, May 17-20, 1998.
- 27. Lin, C.-C., and C. T. Jafvert, "A planar Coordinate Model Describing Counter-Ion Association to Micelles," presented at the First International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Battelle), Monterey, CA, May 17-20, 1998.
- 28. Fabrega, J. and C. T. Jafvert "Modeling Soil-Water Phase Transfer Processes of Organic Bases," presented at the First International Conference on Remediation of Chlorinated and Recalcitrant Compounds (Battelle), Monterey, CA, May 17-20, 1998.
- 29. Jafvert, Chad T. "Groundwater Remediation with Surfactants and Cosolvents," presented at the Asian Industrial Technology Congress, April 26-29,1999.

- 30. Fabrega-Duque, J. R., C. T. Jafvert, H. Li, and L. S. Lee, "Modeling Competitive Cation Exchange of Aromatic Amines in Water Saturated Soils", presented at the 220th American Chemical Society Meeting, Environmental Chemistry Division, Washington, DC, August 20-24, 2000.
- 30. Jafvert, Chad T., P. S. C. Rao, and L. S. Lee, "Microbially Mediated Impacts on Environmental Chemodynamics of Contaminants in Geosorbents," presented at the Third International Symposium of the Working Group "Minerals and Organics" of the International Union of Soil Sciences (ISMOM2000), Naples-Capri Italy, May 22-26, 2000.
- 31. Kolbe, J. L., L.S. Lee, C. T. Jafvert, and I. P. Murarka, "Use of Fly Ash in Acid Mine Reclamation: Arsenic Behavior," presented at the Annual American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America Conference, Indianapolis, IN, November 10-14, 2002.
- 32. Jafvert, C.T., N. Basu, D. Lane, L. S. Lee, and P. S. C. Rao, "Equilibrium Partitioning of PAHs and Monocyclic Aromatic Hydrocarbons between Water and Contaminated River Sediment collected in Northern Indiana," presented as a poster at the Sediment Quality Assessment Conference (Aquatic Ecosystem Health and Management Society), Chicago, IL, October 16-18, 2002.
- 33. Jafvert, C. T., "Heterogeneous Photochemical Reactions of Decabromodiphenylether," presented at the Annual Society of Environmental Toxicology and Chemistry Europe (SETAC Europe) Meeting, Hamburg Germany, April 27- May 1, 2003.
- 34. Hua, I., C. Jafvert, J. Bezares-Cruz, N. Kang, and T. Filley, "Photochemical Reaction Rates and Products of Solar Irradiated Polybrominated Diphenylethers," presented at the 226th American Chemical Society Meeting, Environmental Chemistry Division, New York, NY, September 7-11, 2003.
- 35. Bezares-Cruz, J., C. T. Jafvert, I. Hua, and T. Filley, "Solar Irradiative Decay of Decabromodiphenylether in Hexane and Humic Acid Solutions," presented at the 228th American Chemical Society Meeting, Philadelphia, PA, August 22-26, 2004.
- 36. Dahan, F. J., and C. T. Jafvert, "New Approach to Quantify the Chemical and Physical Interactions that occur in the Adsorbed Surfactant Layer at the Oil-Water Interface," presented at the 228th American Chemical Society Meeting, Philadelphia, PA, August 22-26, 2004.
- 37. Hyun, S., C. Jafvert, L. Lee, and P. S. C. Rao, "Laboratory Evaluation of In-Situ Sand-Capping for Controlling the Upward Flux of PAHs from Tar-Contaminated River Sediments," presented at the 4th SETAC World Conference and 25th Annual Society of Environmental Toxicology and Chemistry (SETAC) Meeting, Portland, Oregon, November 14-18, 2004.
- 38. Hua, I., L. Iraci, C. Jafvert, and J. Bezares-Cruz, "Environmental Partitioning and Reactivity of Polybrominated Diphenylethers", Eos Trans. AGU, 85(17), Jt. Assembly Supplement, Abstract A23A-03, 2004; also presented as a Poster at the 2004 Joint Assembly of AGU, CGU, SEG, and EEGS. Montreal, Canada, May 17-21, 2004.
- 39. Kulkarni, P. P., and C. T. Jafvert, "Solubility of Buckminsterfullerene (C60) in Solvent Mixtures," presented at the 229th ACS National Meeting, San Diego, CA, March 13-17, 2005.
- 40. Ahn, Mi-Y., C. T. Jafvert, L. Nies, I. Hua, and T. R. Filley, "Photodegradation of Decabromodiphenyl Ether Adsorbed onto Clay Minerals and Sediment," Published Extended Abstracts of the 229th American Chemical Society Meeting, San Diego, CA, March 13-17, 2005.
- 41. Ahn, Mi-Y., C. T. Jafvert, L. Nies, I. Hua, and T. R. Filley, "Debromination of Decabromodiphenyl Ether by a Manganese Oxide," Published Extended Abstracts of the 229th American Chemical Society Meeting, San Diego, CA, March 13-17, 2005.
- 42. Kulkarni, P.P., and C. T. Jafvert, "Solubility and Partitioning Studies of C₆₀," presented at the 230th ACS National Meeting, **Washington**, **DC**, August 28 September 1, 2005.
- 43. Hua, I., A. Nienow, J. C. Bezares-Cruz, I. C. Poyer, C. T. Jafvert, "Photocatalytic Degradation of Lindane in Potable Water Systems", presented at the 232th ACS National Meeting, **San Francisco, CA,** September 10-14 2006.
- 44. Hua, I., I. C. Poyer, J. C. Bezares-Cruz, A. Nienow, C. T. Jafvert, "Enhanced Photocatalytic Degradation of Select Toxic Industrial Chemicals and Materials (TICs and TIMs)", presented at the 232th ACS National Meeting, **San Francisco, CA,** September 10-14 2006.

- 45. Johnson, B., C. T. Jafvert, S. Hyun. C. Enfield, B. Jenkinson, "Measurement of Flux at the Groundwater/Sediment Interface", Sea to Sky Geotechnique 2006 the 59th Canadian Geotechnical Conference and the 7th Joint CGS/IAH-CNC Groundwater Specialty Conference, (paper #118), Vancouver BC, Canada, Oct 1-4 2006.
- 46. Zhao, I., C. X. Song, V. Merwade, Y. M. Kim, R. Kalyanam, D. Ebert, B. Engel, R. Govindaraju, M. Huber, C. Jafvert, D. Niyogi and S. Prabhakar. "Interweaving Data and Computation for End-to-End Environmental Exploration on the TeraGrid", Proceedings of the TeraGrid 2007 Conference, Madison, Wisconsin, June 2007.
- 47. Kulkarni, P. P., and C. T. Jafvert, "Solubility of Buckminsterfullerene (C₆₀) in Organic Solvent Mixtures," Published Extended Abstracts of the 233rd American Chemical Society Meeting in Chicago, IL, March 25-29, 2007.
- 48. Turco, R. F., Z. Tong, M. Bischoff, L. M. Nyberg, L. F. Nies, P. P. Kulkarni, C. T. Jafvert, and B. Applegate, "Effects of Fullerenes (nC60 or C60) on Soil Microbiological Functions", presented at the 233rd ACS National Meeting, Chicago, IL, March 25-29, 2007.
- 49. Poyer, I. C., J. C. Bezares-Cruz, A. Nienow, I. Hua, and C. T. Jafvert, "UV/H202 Enhanced Photocatalytic Oxidation of Phosphamidon", Published Extended Abstracts of the 233rd American Chemical Society Meeting in Chicago, IL, March 25-29, 2007.
- 50. Bezares-Cruz, J. C., I. C. Poyer, A. Nienow, I. Hua, and C. T. Jafvert, "Direct and Indirect (via H202) UV Photodegradation of Nicotine in Water." Presented at the 233rd ACS National Meeting, Chicago, IL, March 25-29, 2007.
- 51. Jafvert, C. T., S. Hyun, B. Jenkinson, C. Enfield, "Hydrologic Conditions Around and in Coal Tar Impacted River Sediment at a Former MGP Site." Presented at the 233rd ACS National Meeting, Chicago, IL, March 25-29, 2007.
- 52. Schreiner, K. M., T. R. Filley, R. A. Blanchette, C. Jafvert, and R. Bolskar, "Environmental Fate of C₆₀ Fullerenes: A Holistic Approach" Eos Trans. AGU 88(52) Fall Meeting Supplement., Abstract 13669., San Francisco, CA, December 10-14, 2007.
- 53. Kulkarni, P. P., and C. T. Jafvert, "Aqueous Solubility and Octanol-Water Partition Coefficient (K_{ow}) of C_{60})," Published Extended Abstracts of the 235rd American Chemical Society Meeting in New Orleans, LA, April 6-10, 2008.
- 54. Hou, W.-C., and C. T. Jafvert, "Photochemical Transformation of Aqueous C₆₀ Clusters in Sunlight." Published Extended Abstracts of the 235rd American Chemical Society Meeting in New Orleans, LA, April 6-10, 2008.
- 55. Enfield, C., Y-.S. Kim, C. T. Jafvert, B. Jenkinson, "Development of a Precise Interfacial Flow Meter That Uses the Heat Pulse Method to Measure Water Flow across the Sediment-Water Boundary" *International Conference on Remediation of Contaminated Sediments*, Jacksonville, FL, February 2-5, 2009.
- 56. Kim, Y-.S., C. T. Jafvert, B. Jenkinson, C. Enfield, B. Johnson, "Evaluation of In-Situ Permeable Sand Caps for Remediation of Coal Tar Impacted River Sediment" *International Conference on Remediation of Contaminated Sediments*, Jacksonville, FL, February 2-5, 2009.
- 57. Gall, H, S. Sassman, C. Jafvert, L. Lee, "Quantifying the Fate and Transport of Manure-Borne Hormones with Event-Specific Sampling Schemes", Presented at the 239th ACS National Meeting, San Francisco, CA, March 21-25, 2010.
- 58. Jafvert, C.T., Chen, C.-Y., Hou, W.-C., "Photochemical Reactions of Manufactured Carbon Nanomaterials in the Aquatic Environment", presented at the Goldschmidt Conference, Knoxville TX, June 13-18, 2010.
- 59. Gall, H., C.T. Jafvert, "Temporal Variations in Nutrient Fluxes in Agricultural Drains and Ditches", presentation and accepted paper at the ASCE EWRI Watershed Management 2010 Conference, Madison WI, August 23-27, 2010.
- 60. Gall, H., D. Schuster, C. Jafvert, W. Rhoads, "Design Implementation, and Monitoring of Purdue University's First Green Roof", presentation and paper at the International High Performance Building Conference, Purdue University, West Lafayette, IN, July 12-15, 2010.

- 61. Hou, W.-C., Jafvert, C.T., Kong, L., Zepp, R.G., Wepasnick, K.A., Fairbrother, D.H., "Environmental Photochemistry of Aqueous C₆₀ Clusters", presented at the AICHE 2010 Annual Meeting, Salt Lake City, UT, Nov 7-10, 2010.
- 62. Jafvert, C.T. "Solving equilibrium speciation problems and chemical kinetic problems using Excel VBA subroutines", (*invited talk*) presented at the 241st ACS National Meeting, Anaheim, CA, March 27-31, 2011.
- 63. Kolbe, J.L, Lee, L.S., Jafvert, C.T., Murarka, I.P., "Use of Alkaline Coal Ash for Reclamation of a Former Strip Mine", presentation and paper at the 2011 World of Coal Ash Conference, Denver, CO, USA, May 9-12, 2011.
- 64. Jafvert, C.T., BeigzadehMilani, S., Bitter, J., Fairbrother, H. "Sunlight and UVC mediated reactions of carbon nanotubes in the aquatic environment", presented at the 243rd ACS National Meeting, San Diego, CA, March 25-29, 2012.
- 65. Jafvert, C.T., Fairbrother, H., Bitter, J., Filley, T., BeigzadehMilani, S., Berry, T., Gibson, C. "Photochemical and Fungal Transformations of Carbon Nanotubes in the Environment", presented at the Annual Society of Environmental Toxicology and Chemistry (SETAC) Meeting, Long Beach, CA, November 12, 2012.
- 66. Hsieh, H.-S., Wu, R., Jafvert, C.T., "Carboxylated carbon nanotubes as electron transfer shuttles in reactive oxygen species (ROS) generation", presented at the 246th ACS Fall National Meeting, Indianapolis IN, Sept 8-12, 2013."
- 67. Jafvert, C.T., Kulkarni, P.P., Chen, C.-Y. "Physicochemical properties of C60 related to its environmental fate and exposure", presented at the 246th ACS Fall National Meeting, Indianapolis IN, September 8-12, 2013."
- 68. Fairbrother, H., Bitter, J., Lankone, R. BeigzadehMilani, S., Jafvert, C. "Photochemical transformations of carbon nanotubes in suspension and embedded in polymer nanocomposites", presented at the 246th ACS Fall National Meeting, Indianapolis IN, September 8-12, 2013."
- 69. Berry, T.D., Gibson, C.D., Filley, T.R., Jafvert, C.T., "Response of cultured saprotrophic fungi to single-walled carbon nanotube exposure", presented at the 246th ACS Fall National Meeting, Indianapolis IN, September 8-12, 2013."
- 70. BeigzadehMilani, S., Jafvert, C., Hou, W.-C., Zepp, R.G. "Hydroxyl radical induced phototransformation of single-walled carbon nanotubes in the aquatic environment", presented at the 246th ACS Fall National Meeting, Indianapolis IN, September 8-12, 2013."
- 71. Jafvert, C.T., BeigzadehMilani, S., Hsieh, H.-S., "Abiotic reactions involving single-walled carbon nanotubes in the aquatic environment", presented at the 246th ACS Fall National Meeting, Indianapolis IN, September 8-12, 2013."
- 72. Jafvert, C.T., BeigzadehMilani, S., Hsieh, H.-S., "Abiotic reactions involving single-walled carbon nanotubes in the aquatic environment", presented at the 246th ACS Fall National Meeting, Indianapolis IN, September 8-12, 2013."
- 73. Wang, Z., Jafvert, C.T., "The Rate Constant for Monochloramine (NH₂Cl) Hydrolysis" presented at the "ACS Special Symposium in Honor of Professor Richard L. Valentine", at the 248th American Chemical Society National Meeting, San Francisco, CA, August 10-14, 2014.
- 74. Hsieh, H., Jafvert, C.T., "Probing the reactivity of single walled carbon nanotubes in the aquatic environment: electron shuttle capacity and ROS generation", presented at the "ACS Special Symposium in Honor of Professor Richard L. Valentine", at the 248th American Chemical Society National Meeting, San Francisco, CA, August 10-14, 2014.
- 75. BeigzadehMilani, S., Hou, W., Bitter, J.L., Zepp, R.G., Fairbrother, D., Jafvert, C.T., "Photochemical fate of single walled carbon nanotubes in the aquatic environment", presented at the 248th American Chemical Society National Meeting, San Francisco, CA, August 10-14, 2014.
- 76. Zhao, Y., Jafvert, C.T., "Environmental Photochemistry of single-layered graphene oxide in water", presented at the 248th American Chemical Society National Meeting, San Francisco, CA, August 10-14, 2014.

- 77. Gall, Heather E., Stephen A. Sassman, Linda Lee, Chad T. Jafvert, "Hydrologic Variability Controls Nutrient and Hormone Export from a Midwestern Agroecosystem", presented at the AGU (American Geophysical Union) Fall Meeting, San Francisco, CA, December 15-19, 2014.
- 78. Chen, Ming, Chad T. Jafvert, "Synthesis and Application of a Cross-linked Cationic Surfactant Micelle for Removing Anions from Water", presented as a poster at the 252nd American Chemical Society National Meeting, Philadelphia, PA, August 21-25, 2016.
- 79. Chen, Ming, Chad T. Jafvert, "Anion Recovery from Water by Cross-linked Cationic Surfactant Nanoparticles across Ultrafiltration Membranes", presented at the 252nd American Chemical Society National Meeting, Philadelphia, PA, August 21-25, 2016.
- 80. Zhao, Yingcan, Chad T. Jafvert, "Light-Independent Redox Reactions of Graphene Oxide in Water", presented at the 252nd American Chemical Society National Meeting (at a symposium in honor of Professor Alan T. Stone), Philadelphia, PA, August 21-25, 2016.
- 81. Chen, Ming, Chad T. Jafvert, "Modeling ion exchange equilibria in cross-linked cationic surfactant nanoparticle solutions", presented at the 253rd American Chemical Society National Meeting (at a symposium in honor of Professor Jerry Schnoor), San Francisco, CA, April 2-6, 2017.
- 82. Chen, Ming, Chad T. Jafvert, "Phosphate ion exchange on cross-linked cationic surfactant micelles across dialysis membranes", presented as a poster at the 253rd American Chemical Society National Meeting, San Francisco, CA, April 2-6, 2017.
- 83. Yi Ji, Edwin Kpodzro, Chad T. Jafvert, and Fu Zhao. "Recovery of Cathode Materials from Spent Lithium-ion Batteries Using Molten Salt Systems", International Congress on Sustainability Science & Engineering 2020 Conference, Virtual, August 3-5, 2020.
- 84. Diop, Rasul, Chad T. Jafvert, Andrew J Whelton, Nadezhda Zyaykina, "Understanding of Environmental Issues Associated with Air-Cooled Blast Furnace Slag", presented as a poster at the American Chemical Society 2022 Fall Meeting, Chicago, IL, August 22-25, 2022.

c. Invited Lectures, Exhibitions, and Workshops

- 1. Participant to a Workshop on "Abiotic Organic Transformation Reactions," Stanford University, Environmental Engineering, February, 1986.
- 2. Participant, Gordon Research Conference on "Environmental Sciences: Water", June 18-22, 1990.
- 3. Jafvert, C. T. and J. Heath, "Reactions of Anionic Surfactants in Saturated Soils and Sediments: Precipitation and Micelle Formation," Presented at Manteo III, Concepts in Manipulation of Groundwater Colloids for Environmental Restoration, Sponsored by Oak Ridge National Laboratory, October 15-18, 1990.
- 4. Jafvert, C. T. and E. Blatchley, "Ammonia-Halogen Interactions", a seminar presented at the Advanced Disinfection Processes Seminar Sponsored by the Indiana Water Pollution Control Association, Stewart Center, Purdue University, August 21, 1992.
- Jafvert, C. T., "Influences of Particulate and Dissolved Material on the Bioavailability of Organic Compounds", summary presentation of discussion group, presented at the (invited) Workshop "A Mechanistic Understanding of Bioavailability: Physical - Chemical Interactions", sponsored by The Society of Environmental Toxicology and Chemistry, Pellston MI, August 17-22, 1992,.
- 6. Jafvert, C. T., "A Reaction Scheme for the Chlorination of Ammoniacal Water", a seminar presented to the Analytical Chemistry Program, Dept. of Chemistry, Purdue University, September 15, 1992.
- 7. Jafvert, C. T., "Combined Chorine Residual Decay Reactions", a seminar presented at the U.S. EPA Risk Reduction Engineering Laboratory, Cincinnati, OH, September 30, 1993.
- 8. Participant, a workshop on "Surfactant-aided Subsurface Remediation Technologies," Sponsored by the U.S. EPA, Ada, and the Institute for Applied Surfactant Research, University of Oklahoma, Norman, OK, November 30, 1994.
- 9. Jafvert, C. T., "Photolysis of Arylchlorides and Nitroaromatics in Surfactant Micelle Solutions," a seminar presented at the Graduate Institute of Environmental Engineering, National Taiwan University, Taipei, December 19, 1994.

- 10. Jafvert, C. T., "Extraction of PAHs and PCBs from Soil with Surfactant Solutions," a seminar presented at the Department of Environmental Protection, National Pingtung Polytechnic Institute, Pingtung China (ROC), December 21, 1994; and at the Institute of Environmental Engineering and Department of Chemistry, National Sun Yat-Sen University, Kaohsiung, China (ROC), December 23, 1994.
- 11. Jafvert, C. T., "Some Investigations on the Environmental Physical Chemistry of Surfactants," presented at the 1996 Gordon Conference: Environmental-Sciences: Water, New Hampton School, New Hampshire, June 23-28, 1996.
- 12. Jafvert, C. T., "Some Investigations on the Environmental Physical Chemistry of Surfactants," presented to the Environmental Engineering Program, Civil Engineering, Northwestern University, Evanston IL, May 7, 1997.
- 13. Jafvert, C. T., "Modeling Soil-Water Distribution of Aromatic Amines" presented at the U.S. EPA, National Exposure Research Lab (NERL), Ecosystems Research Division, Athens, Georgia, coauthors: Linda S. Lee, Hui Li, and José Fábrega-Duque, January 20, 1999.
- 14. Jafvert, Chad T. "Phase Transfer Processes Involving Surfactants in Saturated Soils," presented to the Department of Civil and Structural Engineering, Hong Kong Polytechnic University, Hong Kong, April 25, 1999.
- 15. Rao, P.S.C., Linda Lee, and Chad Jafvert (Presenter) "Microbially Mediated Impacts on Environmental Chemodynamics of Contaminants in Geosorbents," presented at the Third International Symposium of the Working Group MO (Minerals and Organics) of the International Union of Soil Sciences. Naples-Capri, Italy, May 22-26, 2000.
- 16. Hua, Inez, Chad Jafvert, and Jose Fábrega-Duque, "Environmental Photochemistry of Polybrominated Diphenyl Ethers," presented at the 2000 Gordon Conference: Environmental-Sciences: Water, Holderness School, New Hampshire, June 25-30, 2000.
- 17. Jafvert, Chad T. "Environmental Phase Transfer Processes of Organic Acids and Bases," presented at the Graduate Institute of Environmental Engineering, National Taiwan University, Taipei, Taiwan, November 28, 2000.
- 18. Jafvert, Chad T. "Photolysis of Halo- and Nitro- Aromatic Pollutants in Heterogeneous Media," presented at The Department of Environmental Engineering, National Cheng Kung University, Tainan, Taiwan, November 29, 2000.
- 19. Jafvert, Chad T. "The Environmental Chemistry of Surfactant Micelles and Emulsions," presented at the Graduate Institute of Environmental Engineering, National Sun Yat-Sen University, Kaohsiung, Taiwan, November 30, 2000.
- 20. Jafvert, Chad T. "An Introduction to the Environmental Chemistry of Surfactant Micelles and Emulsions," presented to the Environmental Engineering Program, Civil Engineering, University of Illinois, December 6, 2001.
- 21. Jafvert, Chad T. "VBA Macros for Solving Problems in Water Chemistry", presented at the Workshop "Computer-Based Learning Tools for Environmental Engineering and Science" at the 2002 meeting of the Association of Environmental Engineering and Science Professors (AEESP), University of Toronto, August 10-14, 2002.
- 22. Jafvert, C. Hua, I., Bezares-Cruz, J., Filley T. "Photochemical Reactions of Decabromodiphenylether (DBDPE)," presented at the U.S. EPA Region V Analytical Chemistry Group, 536 S Clark Street, Chicago IL, Oct. 16, 2003.
- 23. Jafvert, Chad T. "Why it is Not Good to be Phobic of Our Aqueous Environment if You are a Chemical: Studies with PAHs, Flame Retardants, and Buckyballs," presented at Indiana University, School of Public and Environmental Affairs, Bloomington, IN, March 31, 2006.
- 24. Jafvert, Chad T. "Monitoring Chemicals in Rivers and Hydraulic Gradients around Rivers", presented to the Hydraulics and Hydrology area, School of Civil Engineering, Purdue University, Sept. 25, 2006.
- 25. Jafvert, Chad T. "Monitoring Water Quality in Rivers: Instrumentation and Methods" presented at the Center for Hydraulics and Hydrotechnical Investigations (Centro de Investigaciones Hidráulicas

- e Hidrotécnicas), Vice Rectory for Research, Postgraduate Studies, and Extension, The Technical University of Panama (Universidad Tecnológica de Panamá), June 18, 2007.
- 26. Jafvert, Chad T. "Monitoring Water Quality in Drainage Ditches at Purdue's Farms", Presented at the Indiana LTAP and School of Civil Engineering Stormwater Drainage Conference, February 28, 2008.
- 27. Jafvert, Chad T. "Partitioning, Solubility, and Aqueous Photochemistry of Buckminsterfullerene", presented at the Environmental Engineering Program, Civil Engineering, University of Illinois, March 6, 2008.
- 28. Jafvert, Chad T. "Partitioning, Solubility, and Aqueous Photochemistry of Buckminsterfullerene", presented at the Department of Geography and Environmental Engineering, Johns Hopkins University, Baltimore MD, April 25, 2008.
- 29. Jafvert, Chad T. "Monitoring Water Quality in Streams in Indiana" presented at the Universidad Tecnológica de Panamá (Technical University of Panama), Facultad de Ingeniería Civil, Centro de Investigaciones Hidráulicas e Hidrotécnicas (Center for Hydraulics and Hydrotechnical Investigations), June 10, 2008.
- 30. Jafvert, Chad T. "Environmental Fate Studies on Buckminsterfullerene (C₆₀), Coal Tar Contaminants, and Hormones", presented at the U.S. EPA, Ecosystems Research Division laboratory, Athens, GA, July 30, 2008.
- 31. Jafvert, Chad T. "Partitioning, Solubility, and Aqueous Photochemistry of Buckminsterfullerene", presented at the Nanotechnology and the Environment Conference, Indianapolis IN, August 5-6, 2008.
- 32. Jafvert, Chad T. "Discovery, Learning, Outreach in Environment and Sustainability: Challenges and Opportunities, School of The Environment and Sustainability, University of Saskatchewan, Saskatoon, CA, January 7, 2009.
- 33. Jafvert, Chad T. "Environmental Engineering Applications of Physical Chemistry", presented to the Petroleum Environmental Research Forum (PERF) Workshop on Water and Wastewater, held at Purdue U. on May 20-21, 2009.
- 34. Jafvert, Chad T. "Site Characterization of the Grand Calumet River in Hammond IN at a Former Manufactured Gas Plant (MGP) Site", presented at the U.S. EPA Great Lakes Program Office, Chicago IL, June 10, 2009.
- 35. Jafvert, Chad T. "Chemical and Hydrologic Site Characterization of the Grand Calumet River at a Former Manufactured Gas Plant (MGP) Site", presented to the Environmental Laboratory of the USACE Waterways Experiment Station, Vicksburg, MS, July 17, 2009.
- 36. Jafvert, Chat T. "Solubility, Partitioning, and Photochemistry of Buckminsterfullerene (C_{60})" presented at the 26th Annual Ohio Valley Chapter SETAC meeting, Cincinnati OH, September 17, 2009.
- 37. Jafvert, Chad T. "Understanding Ecological Exposures", presented at the U.S. EPA, Ecosystems Research Division laboratory, Athens, GA, March 10, 2010.
- 38. Jafvert, Chad T. "Instrumentation and Methods for Near Real-Time Water Quality Monitoring in Streams and Rivers" presented at the Universidad Tecnológica de Panamá (Technical University of Panama), Centro de Investigaciones Hidráulicas e Hidrotécnicas (Center for Hydraulics and Hydrotechnical Investigations), Panama City, Panama, March 15-16, 2010.
- 39. Jafvert, Chad T. "Nanomaterials in the Aquatic Environment", presented to the Wabash Area Lifelong Learning Association (WALLA), Morton Center, West Lafayette, IN, March 25, 2010.
- 40. Jafvert, Chad T. "The Environmental Chemistry of Dispersants, with Emphasis on Oil-Water-Surfactant Interactions", presented at Purdue's Discovery Park, Global Sustainability Initiative Seminar Series on Oil Spills, July 30, 2010.
- 41. Jafvert, Chad T. "Understanding Oil Dispersants", presented at Purdue's Center for the Environment, Shell Energy Day, September 22, 2011.
- 42. Jafvert, C.T. "How did that get there and where is it going? Some case studies on legacy pollutants and potential pollutants", Ohio State University, September 6, 2012.

- 43. Jafvert, C.T. "A Series of Short Stories on How Flowing Water Impacts Other Things, Like Chemistry", presented at the Hydraulics/Hydrology Seminar Series, Civil Engineering, Purdue University, February 18, 2013.
- 44. Jafvert, C.T. "An Abridged Review of Research on: Carbon Nanomaterials, Contaminated Sediments, Point-of-Use Water Treatment Systems", presented at the Environmental Engineering Seminar Series, School of Civil Engineering, Purdue University, September 24, 2013.
- 45. Jafvert, C.T. "Drinking Water Treatment in Rural Area: Barbosa, Antioquia, Colombia", presented to the Purdue University Colombia Student Association, Pfendler Hall, Purdue University, October 10, 2013.
- 46. Jafvert, C.T. "Legacy and Emerging Environmental Pollutants", presented at Notre Dame University, October 30, 2013. Sponsored by the Center for Sustainable Energy at Notre Dame (cSEND) and hosted by the Dept. of Civil & Environmental Engineering, and Earth Sciences (CEEES).
- 47. Jafvert, C.T. "Nanomaterials, Coal Tar, Hormones, and other Environmental Contaminants", presented at National Cheng Kung University, Tainan, Taiwan. Sponsored by the Department of Environmental Engineering, May 13, 2014.
- 48. Jafvert, C.T. "Real-Time Water Quality Monitoring", presented at the National University of Kaohsiung, Department of Civil and Environmental Engineering, Kaohsiung,, Taiwan, May 14, 2014.
- 49. Jafvert, C.T. "From Legacy Pollutants to Emerging Contaminants: Parts per hundred to Parts per Trillion", presented at the 2014 International Workshop on Environment and Resources, Ming Chi University of Technology, New Taipei City, 24301, Taiwan, May 16, 2014.
- 50. Jafvert, C.T. "Environmental Water Chemistry Research", presented at Qinghai Normal University, Xining, Qinghai Province, China, June 30, 2014.
- 51. Jafvert. C.T. "Point-of-Use Slow Sand Filters for Drinking Water Treatment", presented at Qinghai Normal University, Xining, Qinghai Province, China, June 30, 2014.
- 52. Jafvert, C.T. "Environmental Photochemistry of Carbon Nanomaterials, and Better Drinking Water through Service Learning", presented at Chinese Academy of Sciences, Research Center of Eco-Environmental Sciences (RCEES) and State Key Laboratory of Environmental Aquatic Chemistry (SKLEAC), July 3, 2014
- 53. Jafvert, C.T. "Environmental Photochemistry of Carbon Nanomaterials, and Better Drinking Water through Service Learning", presented at the School of the Environment, Nanjing University, Nanjing, China, July 10, 2014.
- 54. Jafvert, C.T. "Point-of-Use Drinking Water Treatment for Use in Rural Areas of Developing Countries", presented at the 17th Annual Pollution Prevention Conference, organized by the Indiana Partners for Pollution Prevention and IDEM (Indiana Dept. of Environmental Management), Plainfield, Indiana, September 17th, 2014
- 55. Jafvert, C.T. "Point-of-Use Drinking Water Treatment Methods, with Case Studies on Slow Sand Filtration", presented at the Cátedra Fulbright Uninorte on Sustainable Development, at the Universidad del Norte, Barranquilla, Colombia, October 1-2, 2014.
- 56. Jafvert, C.T. "Environmental Photochemistry of Carbon Nanomaterials, and Better Drinking Water through Service Learning", presented at the Center for Research in Water Resources, Department of Civil, Architectural and Environmental Engineering, The University of Texas, Austin, TX, October 23, 2014.
- 57. Jafvert, C.T. "Installing Slow Sand Filters for Drinking Water Treatment in Rural Communities in Colombia, East Africa, and Western China" Presented at the Office of Interdisciplinary Graduate Program's Interdisciplinary Social Justice Seminar Series, Purdue University, December 10, 2014.
- 58. Jafvert, C.T. "Point-of-Use Drinking Water Treatment in Rural Communities in Colombia, East Africa, and Western China", a *Science-on-Tap* talk given to the general public at the Lafayette Brewing Company, Lafayette, IN, January 29, 2015. Sponsored by CE and EEE, with over 200 people in attendance.

- 59. Jafvert, C.T. "Point-of-Use Drinking Water Treatment in Rural Communities in Colombia, East Africa, and Western China", presented at Yangzhou University, Yangzhou, Jiangsu Province, China, June 29, 2015.
- 60. Jafvert, C.T. "Slow Sand Filtration for treating Drinking water in Rural Villages in Qinghai Province, China", presented at Qinghai Normal University, Qinghai Provence, China, July 14, 2015.
- 61. Jafvert, C.T. "Environmental and Ecological Engineering Research Related to ERDC Activities" presented at the U.S. Army Corps of Engineers, Engineering Research and Development Center (ERDC), Vicksburg, MS, August 10, 2015.
- 62. Jafvert, C. T. "How Critical Zone Functions and Chemical Specific Properties Interact to Regulate Contaminant Reactivity, Mobility, and mean residence Time", presented at the Critical Zone Science, Sustainability and Services in a Changing World Conference, Purdue University, October 23, 2015.
- 63. Jafvert, C.T. "Slow Sand Filters for Drinking Water Treatment in Rural Communities: Colombia, East Africa, Western China", presented at the Engineers for a Sustainable World Regional Conference, Purdue University, October 24, 2015.
- 64. Jafvert, C.T., "Slow Sand Filters for Drinking Water Treatment in Rural Communities in Colombia", presented at the "Progreso: Research Contribution from Latin America Spotlight: Colombia", sponsored by the Colombian Student Association at Purdue (CSAP), Forney Hall of Chemical Engineering, Purdue University, November 14, 2015.
- 65. Jafvert, C.T., Howarter, J. "Water Treatment Technologies for Rural Areas in Developing Countries", presented at the Mandela Washington Fellowship Institute hosted by Purdue University, July 21, 2016.
- 66. Jafvert, C.T. "Point-of-Use Drinking Water Treatment for Rural Communities in Developing Countries", presented at the 19th Annual Pollution Prevention Conference, organized by the Indiana Partners for Pollution Prevention and IDEM (Indiana Dept. of Environmental Management), Plainfield, Indiana, September 28, 2016.
- 67. Wiener, J., Nies, L., Jafvert C.T., "Watershed Scale Management of Water Resources: Finding Answers in Large Heterogeneous Data Sets", presented at the 2017 LTAP (Local Technical Assistance Program) Stormwater Drainage Conference, at Purdue University, February 9th, 2017.
- 68. Jafvert, C.T., "Conversations with an Environmental Leader" Series, Center for the Environment, Discovery Park, Purdue University, March 2, 2017.
- 69. Jafvert, C.T. "Recent Studies on the Environmental Chemistry of Carbon-Based Nanomaterials, and on Drinking Water Treatment in Rural Areas of Developing Countries", presented at Hohai University, Nanjing, Jiangsu Province, China, July 4, 2017.
- 70. Jafvert, C.T. "Recent Studies on the Environmental Chemistry of Carbon-Based Nanomaterials, and on Drinking Water Treatment in Rural Areas of Developing Countries", presented at Nanjing University, Nanjing, Jiangsu Province, China, July 7, 2017.
- 71. Jafvert, C.T. "Producing Drinking Water from Surface Water Sources in Rural Areas of Developing Countries", presented at the Rotary Club of Lafayette, West Lafayette, July 31, 2018.
- 72. Jafvert, C.T. "Drinking Water Treatment in Rural Areas of Developing Countries", presented at the International Education Week Talks Series, Purdue University, Krannert Hall, November 15, 2018.
- 73. Jafvert, C.T. "Drinking Water Treatment in Rural Areas of Developing Countries", presented at the Rotary Club of Monticello, Monticello, IN, March 7, 2019.
- 74. Jafvert, C.T. "Environmental Monitoring Techniques and Environmental Parameters of Importance", a Workshop talk presented at Coniiti 2019 (Congreso Internacional de Innovación y Tendencias en Ingeniería ((International Congress of Innovations and Engineering Trends), at the Convention Center of the Universidad Católica de Colombia, Bogotá, Colombia, October 2-4, 2019.
- 75. Jafvert, C.T. "Converging Technologies for Environmental Assessment and Protection: Cases Study Examples Featuring Research in Peru and Kenya", a (remote) lecture (over VooV) given to the undergraduate/graduate student summer school program at the School of Civil Engineering, Southeast University, Nanjing, China, July 26, 2021.

- 76. Jafvert, C.T. "Research Opportunities and Internships for Undergraduates", a lecture given to Freshmen Engineering students in ENG 103 (Oct 20, 2021), and to EEE students in EEE 290 (Oct 28, 2021).
- 77. Jafvert, C.T. Panel member for a webinar on Water Challenges, addressing the issues of technologies associated with water and the challenges of new businesses. The webinar was presented to the faculty members at Icesi University, Cali, Colombia as they develop the curriculum for a new Master's Degree in Sustainability, March 24, 2022.
- 78. Jafvert, C.T. "Combining Real-Time Sensors and Lab-Based Chemical Analysis for Optimal Environmental Monitoring", a (remote) talk presented at the International Symposium on Urban and Rural Non-point Source Pollution Control (URNSPC 2022), Jiangsu Society for Environmental Sciences, Nanjing, China, June 25, 2022.
- 79. Jafvert, C.T. "Slow Sand Filters for Drinking Water Treatment in Rural Communities: Colombia, East Africa, Western China", a talk presented to the World Health Purdue Student Organization, September 29, 2022.
- 80. Jafvert, C.T. "Case Studies on Surface Water Quality and Treatment: Monitoring Metals and Metalloids in the Southern Rivers of Peru, and Drinking Water Treatment in Rural Kenya (& other distance places), a seminar presented at the University of Missouri, Department of Civil and Environmental Engineering, November 4, 2022.
- 81. Jafvert, C.T. "Building Multidisciplinary Research Partnerships", a lecture presented at Purdue University for International Education Week, Honors College Building, November 17, 2023.
- 82. Jafvert, C.T. "Slow Sand Filtration for Drinking Water Treatment in Rural Areas" a seminar presented as part of the 62nd anniversary of the creation of the Chemical Engineering School (IV Seminario Internacional de Ingenieria Quimica) at the Universidad Nacional de san Agustin de Arequipa (National University of St. Augustine of Arequipa), Peru; November 23, 2023. Also presented on November 24, 2023 to the Department of Environmental Engineering, at the same university.