May 1, 2019

Dear Dr. Dillon,

I write to self-nominate for the honorary position of Co-chair of IAH Commission on Managing Aquifer Recharge (MAR) as described in https://recharge.iah.org/iah-mar-co-chair-elections-2019. This nomination is seconded by retiring Co-chair, Professor Weiping Wang, University of Jinan. The most important motivation for me is to facilitate an increase in the percentage of MAR of current global groundwater use from its current 2.4% to 5% by 2030 through working for the IAH-MAR Commission. A CV is enclosed for your reference.

Of the example co-chair tasks, I am especially interested in the following based on my past experience and qualifications:

1) *Helping interested people to develop and refine activities to advance MAR by forming working groups to complete these tasks and promote outputs*
   I have facilitated the formation of the IAH-MAR Commission's MAR for Sustainability working group and is its current leader. It has been an interesting growth experience so I can relate to those who may want to do the same.
2) *Ensuring that there will be refereed publications emerging from ISMARs and help select editors and journals as required*
   I have considerable editorial experience for peer reviewed journal publications. I am currently an Associate Editor for Water Resources Research, and have served as an Associate Editor for Journal of Geochemical Exploration. I have also guest guest-edited special issues for Environmental Health Perspective, Journal of Geochemical Exploration, and Science of the Total Environment.
3) *Seeking to maximise international benefits of the Commission, taking particular account of developing countries and aiming to publish as much as possible in open access refereed publications, or via the IAH-MAR web site. (Leave no one behind.)*
   I see this as being critical to the mission of IAH-MAR Commission, especially to share results based on practice that may not suit a journal publication, although the publication process can still benefit from quality control through peer review.
4) *Convening plenary sessions of IAH-MAR at ISMARs and IAH Congresses at as many other relevant conferences as possible to widen connections and advance activities*
   I have chaired sessions in many international professional conferences and would make an effort to continue to do so during ISMARs, IAH Congresses, AGU and GSA meetings.
5) *Liaising with IAH, UNESCO, GRAC, AHS, IWA and other organisations as needed to maximise the achievement of objectives of the commission (see our welcome page for current objectives) and broaden exposure to Commission activities*
   I will make this a new habit and will start by help completing the UNESCO-IHP publication on exemplar cases of economic and sustainable MAR.
6) *Assist the ISMAR organising committees by liaising with UNESCO to seek funding to help with travel costs for early career scientists from developing countries, and to establish*

selection criteria, solicit proposals, review them and make recommendations to UNESCO for awards. To also arrange where an ISMAR has made a profit for some of this to be banked with IAH to expand support of such delegates to future congresses.

As an educator, I truly believe the future of hydrogeology is to develop human capacity in developing countries. I have trained many graduate students and young professionals from Bangladesh while a faculty member in the US and while working for UNICEF Bangladesh and am continuing to engage Cambodian students in my on-going research. This will be a priority.

7) *Preparing annual reports on IAH-MAR activities for IAH Executive and for posting on IAH-MAR web site for public information early each calendar year, and preparing a request to the IAH Executive as advised, in order to extend the life of the Commission before its charter expires (currently each 6 years).*

   The work of the IAH-Commission is clearly not yet completed as the global MAR percentage is still low relative to global groundwater use. So I am committed to this task to work collaboratively with other Co-chairs.

8) *Think about new ways the Commission can increase its benefits and implement discussions and actions that will see these bear fruit.*

   I believe the Commission can do more by reaching out to surface water hydrology community by placing MAR as part of recognized tool-kits in conjunctive surface water and groundwater management.

Thank you for your consideration. I look forward to serving the Commission!

Sincerely,

Yan Zheng PhD
Chair Professor. School of Environmental Science and Engineering, &
Associate Director, Office of Research
SUSTech
Email: yan.zheng@sustech.edu.cn
Fellow of Geological Society of America
Associate Editor, Water Resources Research

Current Position

CHAIR PROFESSOR, School of Environmental Science and Engineering
EXECUTIVE DIRECTOR, Belt and Road Environment Institute of China (BREIC)
ASSOCIATE DIRECTOR, Office of Research
Southern University of Science and Technology, Shenzhen, China
Email: yan.zheng@sustech.edu.cn

Nationality USA **Languages** English, Chinese

Education

Columbia University *Earth and Environ. Sci./marine geochemistry,* **Ph.D.** 1999
Columbia University, *Geol. Sci./chemical oceanography,* **M.Phil.**, 1994
Columbia University, *Geol. Sci./isotope geochemistry,* **M.A.**, 1993
University of Science and Technology of China, *Geochemistry,* **B.S,** 1988

Employment History

09/13-present *Affiliated Professor*, School of Public Health, City University of New York
01/12-08/16 *Executive Facilities Professor*, Queens College, CUNY
12/09-12/11 *Specialist*, UNICEF Bangladesh, Water and Environmental Sanitation
08/08-present *Adjunct Senior Res. Scientist*, Lamont-Doherty, Columbia University
01/07-11/09 *Director & Professor*, School of Earth and Env. Sci., Queens College
09/06-11/09 *Professor*, Queens College, City University of New York
09/06-07/08 *Adjunct Res. Scientist*, Lamont-Doherty, Columbia University
09/05-04/06 *Consultant,* UNICEF China, Water and Sanitation
09/02-08/06 *Associate Professor*, Queens College, City University of New York
02/99-08/06 *Adjunct Assoc. Res. Scientist*, Lamont-Doherty, Columbia University
09/98-08/02 *Assistant Professor*, Queens College, City University of New York
08/88 - 08/91 *Research Assistant*, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, China

Countries and Organizations with Work Experience

Bangladesh	United Nations Children's Fund (UNICEF)
China	Chinese Academy of Sciences, Peking University & SUSTech
USA	City University of New York & Columbia University

Personal Statement

Dr. Yan Zheng is interested in studying chemistry of chemical compounds and elements in the environment with a goal to improve human and ecosystem health. An experienced scientist and mentor, she is recognized for her seminal work on biogeochemistry of metalloids in marine and fresh waters and for fostering interdisciplinary approaches to environmental research. With colleagues and students, she has published more than 100 peer-reviewed journal articles in areas including marine geochemistry, hydrogeology, environmental analytical chemistry, drinking water safety,

environmental health, and sustainable development with >7000 Google citations (h-index 43). She has served or is serving as an Associate or a Guest Editor for Environmental Health Perspective, Journal of Geochemical Exploration, Science of the Total Environment, Science Bulletin and Water Resources Research. She was the President for the International Professionals for Advancement of Chinese Earth Sciences (IPACES), and is the Chair of Managed Aquifer for Sustainable Development Working Group of the International Hydrogeologist Association (IAH). She was elected a Fellow of the Geological Society of America in 2010. At UNICEF, as the water and environmental sanitation technology team leader, her team with more than 20 staff members delivered water and sanitation aid projects serving 20 million people in19 districts of Bangladesh, and authored 4 United Nations reports.

Professional Experience as Project Director of Research Programs

2019-2023 Groundwater Arsenic Study in China, Cambodia and Vietnam, NSFC & CAS
2018-2021 Managed Aquifer Recharge in North China Plain, DANIDA (PI of Chinese partners)
2018-2022 Groundwater Remediation Study, NSFC & SZSTIC
2013-2015 Groundwater Sustainability Study, CGS
2012-2014 Stream Water Chemistry Study, NSFC
2012-2014 Transportation Choices Study, US Department of Transportation
2012-2017 Private Well Testing and Treatment Community Engagement, US NIEHS
2006-2012 Maine Ground Water Studies, US NIEHS
2000-2014 Bangladesh Ground Water Studies, US NIEHS and US NSF

Relevant Professional Experience

- Extensive (20+ years) senior level experience in water quality research and management, with over a decade of experience in arsenic mitigation in Bangladesh.
- Extensive experience (15+ years) in dissemination of knowledge through editing and guest-editing journals and special issues, publishing peer-reviewed scientific journal articles, publishing UNICEF and UN reports, and being interviewed by major international and national media.
- Direct experience (2+ years) in management of large WASH interventions in Bangladesh as part of the SHEWA-B project, including supervision of many action research projects to evaluate the efficacy of various interventions for improving water quality and for climate resilient water supply.
- Experience (10+ years) in arsenic mitigation in China through facilitating the formation of the China Arsenic Mitigation Network, and subsequently, advising the China Geological Survey's arsenic mitigation project.
- Experience (10+ years) in arsenic mitigation in Maine and New Jersey through working with Maine Geological Survey and New Jersey Water and Geological Survey, and advising Maine CDC and New Jersey Department of Health.

Professional Services

2018-2019 Scientific Committee, the 10th International Symposium on Managed Aquifer Recharge (ISMAR10), May 2019, Madrid, Spain
2018-2021 Stockholm Water Prize Nomination Committee
2017.10 Chair, Sino-German Consortium for Managed Aquifer Recharge
2017.09 ISMAR9 Session co-Chair
2017.06 Chair, Sino-German Workshop on Managed Aquifer Recharge in the North China Plain, June 23, 2017, Shijiazhuang, China
2017 International Symposium on Antimicrobial Resistance in the Environment (ISARE 2017) Member of Scientific Committee
2017 President, International Professionals for the Advancement of Chinese Earth Sciences (IPACES)
2017-present **Associate Editor**, Water Resources Research
2017-2018 Organizing Committee, As2018 the 7th International Congress on Arsenic in the Environment, July 1-6, 2018, Beijing, China
2015 **Guest Editor** with J. Ayotte, Science of the Total Environment Special Issue "Arsenic in Private Wells of Northeast America" Feb, 1, 2015
2014-present **Associate Editor**, Science Bulletin 科学通报(英文)
2014 Expert Review Panels for U.S. National Science Foundation Earth Science Division Hydrological Science Program
2014 Treasurer, International Professionals for the Advancement of Chinese Earth Sciences (IPACES)
2013-present **Editorial Board** of Acta Geologica Sinica (English Edition)
2013 **Guest Editor**, Journal of Geochemical Exploration Special Issue "Arsenic and Fluoride in Groundwater of China" volume 135, page 1-140
2013-present, Chair, International Association of Hydrology Managed Aquifer Recharge Commission Working Group Managed Aquifer Recharge for Development
2013-2017, Associate Editor, Journal of Geochemical Exploration
2013 Chair, Scientific Committee, the 8th International Symposium on Managed Aquifer Recharge (ISMAR8), Oct. 15-19, Beijing, China
2013 Convener with P. Smedley, Session 23b, Sustainable Groundwater Development and the Millennium Development Goals: What Can Hydrogeochemists do? Goldschmidt 2013, Aug 25-30, Florence, Italy
2013 Convener with J. Ayotte, Session T7 Naturally Occurring Contaminants in Groundwater Used for Water Supply in the Northeastern United States, The Geological Society of America northeastern section meeting, 18-20 March, Bretton Woods, NH, USA
2010-2011 Advisory Committee, SIDA funded Arsenic Mitigation Project (SASMIT) in Bangladesh
June 2009 Convener with H. Michael, Session 13G Sustainable Management of Safe Aquifers in Areas Affected by High Groundwater Arsenic, Goldschmidt 2010, June 13-18, Knoxville, Tennessee

Apr 2009 Expert Review Panel for U.S. National Science Foundation Earth Science Division Hydrological Science Program
2009 Long Island Sound Science and Technology Advisory Committee
Oct. 2008 Expert Review Panel for NIEHS/Superfund Basic Research Program
2008-2010 Board Member, New York City Soil and Water Conservation District
2007-2008 Member of editorial board of book series “Arsenic in the Environment volume I: Natural Arsenic in Latin America”. ISBN 978-0-415-40771-7. 2008. Routledge, Taylor & Francis Group, USA
2007 **Guest Editor**, Environmental Health Perspective mini-monograph "Occurrence and Health Effect of Arsenic in China".
2006-2009 Technical advisor, China Arsenic Mitigation Network
Mar. 2006 Convener, China Arsenic Mitigation Network Conference, Beijing, China. March 24-27, 2006, Beijing Xiyuan Hotel, sponsored by UNICEF, China CDC and Chinese Geological Survey.
Aug. 2005 Convener with R.F Anderson and M. Dai, A regional workshop of GEOTRACES, Xiamen, China, Aug. 25-27, sponsored by China National Natural Science Foundation and US National Science Foundation
2005-2006 **Associate Editor**, Chinese Journal of Endemiology, published by Chinese Medical Association
Oct. 2004 Expert Review Panel for NIEHS/Superfund Basic Research Program
2002-2003 Advisory Committee, Geological Science Section, New York Academy of Sciences

United Nations Reports (N=4)

1. Towards an Arsenic Safe Environment in Bangladesh, March 22, 2010, The Government of Bangladesh and the United Nations. Role: editor and coordinator
2. Bangladesh National Drinking Water Quality Survey 2009, March 22, 2011, Bangladesh Bureau of Statistics and UNICEF. Role: co-author and coordinator
3. Making Economic Sense for Arsenic Mitigation: A Case Study of Comilla District, Bangladesh, March 22, 2011, UNICEF. Role: supervising author and coordinator
4. Proceedings of the National Water and Sanitation Technology Workshop, November 27, 2011, Department of Public Health Engineering, UKAid and UNICEF. Role: editor and coordinator

Peer Reviewed Publications (N=111):

Citations available at Google Scholar: Total 7094, h-index 43, i10-index 79
http://scholar.google.com/citations?user=Vi_DoUgAAAAJ&hl=en
*Corresponding Author **Corresponding author mentored by Zheng

Publications (2019) n=3

2019.01 P. Dillon*, P. Stuyfzand, T.Grischek, M. Lluria, R. D. G. Pyne, R. C. Jain, J. Bear, J. Schwarz, W. Wang, E. Fernandez, C. Stefan, M. Pettenati, J. van der Gun, C. Sprenger, G.

Massmann, B. R. Scanlon, J. Xanke, P. Jokela, Y. Zheng, R. Rossetto, M. Shamrukh, P. Pavelic, E. Murray, A. Ross, J. P. Bonilla Valverde, A. Palma Nava, N. Ansems, K. Posavec, K. Ha, R. Martin, M. Sapiano. 2019. Sixty years of global progress in managed aquifer recharge. Hydrogeology Journal 27:1-30

2019.02 Yingying Yao, Charles Andrews, Yan Zheng, Xin He, Vladan Babovic, and Chunmiao Zheng*. 2019. Development of fresh groundwater lens in coastal reclaimed islands. Journal of Hydrology 573:365-375

2019.03 Jie Liu, Xi Li, Hong Yang, Guoyi Han, Junguo Liu, Chunmiao Zheng, Yan Zheng*. 2019. The Water-Energy Nexus of Megacities Extends Beyond Geographic Boundaries: A Case of Beijing. Environmental Engineering Sciences *in press*

Publications (2018) n=4

2018.01 Flanagan, S.V.** and Y. Zheng. 2018. Comparative case study of legislative attempts to require private well testing in New Jersey and Maine. Environmental Science & Policy 85: 40-46

2018.02 Kulkarni, H. V., Mladenov, N., McKnight, D. M., Zheng, Y., Kirk, M. F., and Nemergut, D. R., 2018, Dissolved fulvic acids from a high arsenic aquifer shuttle electrons to enhance microbial iron reduction: Science of the Total Environment, v. 615, p. 1390-1395.

2018.03 Flanagan, S.V. Gleason, J.A. Spayd, S.E. Procopio, N.A. Rockafellow-Baldoni, M.
Braman, S. Chillrud, S.N. Zheng, Y*, Health protective behavior following required arsenic testing under the New Jersey Private Well Testing Act, International Journal of Hygiene and Environmental Health, DOI: 10.1016/j.ijheh.2018.05.008

2018.04 Xu, B.Wang, G. Yang, Q. Zheng, Y*. Hydrological buffering during groundwater acidification in rapidly industrializing alluvial plains, Journal of Contaminant Hydrology, DOI: 10.1016/j.jconhyd.2018.08.006

Publications (2017) n=6

2017.01 Zheng, Y.* and Flanagan, S.V. 2017. The case for universal screening of private well water quality in the U.S. and testing requirement to achieve it: Evidence from arsenic. Environmental Health Perspective, 125(8) DOI:10.1289/EHP629. https://ehp.niehs.nih.gov/EHP629/

2017.02 Zheng*, Y. , 2017, Lessons Learned from Arsenic Mitigation among Private Well Households, Current Environmental Health Reports, 1-10.

2017.03 George**, C. M., J. Inauen, J. Perin, J. Tighe, K. Hasan, and Y. Zheng, 2017, Behavioral Determinants of Switching to Arsenic-Safe Water Wells: An Analysis of a Randomized Controlled Trial of Health Education Interventions Coupled With Water Arsenic Testing, Health Education & Behavior, 44(1), 92-102.

2017.04 Radloff**, K. A., Y. Zheng, M. Stute, B. Weinman, B. Bostick, I. Mihajlov, M. Bounds, M. M. Rahman, M. R. Huq, and K. M. Ahmed (2017), Reversible adsorption and

flushing of arsenic in a shallow, Holocene aquifer of Bangladesh, Applied Geochemistry, 77, 142-157.
2017.05 Zhang, Y., S. Li, L. Zheng, J. Chen, and Y. Zheng* (2017), Evaluation of arsenic sorption and mobility in stream sediment and hot spring deposit in three drainages of the Tibetan Plateau, Applied Geochemistry, 77, 89-101.
2017.06 Aziz, Z., B. C. Bostick, Y. Zheng, M. R. Huq, M. M. Rahman, K. M. Ahmed, and A. van Geen (2017), Evidence of decoupling between arsenic and phosphate in shallow groundwater of Bangladesh and potential implications, Applied Geochemistry, 77, 167-177
.
Publications (2016) n=5
2016.01 Keimowitz, A.R.**, Zheng, Y., Lee, M.-K., Natter, M., Keevan, J., 2016. Sediment Core Sectioning and Extraction of Pore Waters under Anoxic Conditions. JoVE (Journal of Visualized Experiments), e53393-e53393
2016.02 Flanagan, S.V., Spayd, S.E., Procopio, N.A., Chillrud, S.N., Braman, S., Zheng, Y.*, 2016. Arsenic in private well water part 1 of 3: Impact of the New Jersey Private Well Testing Act on household testing and mitigation behavior. Science of The Total Environment 562, 999-1009
2016.03 Flanagan, S.V., Spayd, S.E., Procopio, N.A., Chillrud, S.N., Ross, J., Braman, S., Zheng, Y.*, 2016b. Arsenic in private well water part 2 of 3: Who benefits the most from traditional testing promotion? Science of The Total Environment 562, 1010-1018
2016.04 Flanagan, S.V., Spayd, S.E., Procopio, N.A., Marvinney, R.G., Smith, A.E., Chillrud, S.N., Braman, S., Zheng, Y.*, 2016c. Arsenic in private well water part 3 of 3: Socioeconomic vulnerability to exposure in Maine and New Jersey. Science of The Total Environment 562, 1019-1030
2016.05 Mihajlov, I.**, Stute, M., Schlosser, P., Mailloux, B.J., Zheng, Y., Choudhury, I., Ahmed, K.M., van Geen, A., 2016. Recharge of low-arsenic aquifers tapped by community wells in Araihazar, Bangladesh, inferred from environmental isotopes. Water Resources Research 52, 3324-3349.

Publications (2015) n=7
2015.1 **Zheng, Y.*** and J. D. Ayotte. At the Crossroads: Hazard Assessment and Reduction of Health Risks from Arsenic in Private Well Waters of Northeastern America and Atlantic Canada. Science of the Total Environment. 505:1237-1247.
2015.2 Flanagan, S.V., R. G. Marvinney and **Y. Zheng***. Influences on domestic well water testing behavior in a Central Maine area with frequent groundwater arsenic occurrence. Science of the Total Environment. 505:1274-1281
2015.3 Flanagan, S.V., R. G. Marvinney, R. A. Johnston, Q. Yang and **Y. Zheng***. Dissemination of well water arsenic results to homeowners in Central Maine: Influences on mitigation behavior and continued risks for exposure. Science of the Total Environment. 505:1282-1290.
2015.4 Yang, Q, C.W. Culbertson, M.G. Nielson, C.W. Schalk, C.D. Johnson, R.G. Marvinney, M. Stute and **Y.Zheng***. Flow and sorption controls of groundwater

arsenic in individual boreholes from bedrock aquifers in central Maine, USA. Science of the Total Environment. 1291-1307.

2015.5 O'Shea, B.**, M. Stranskya, S. Leitheisera, P. Brock, R.G. Marvinneyc and Y. Zheng. Heterogenous arsenic enrichment in meta-sedimentary rocks in central Maine, United States. Science of the Total Environment. 505:1308-1319.

2015.6 N. Mladenov, **Y. Zheng**, B. Simone, T. Legg, D. McKnight, D. Nemergut, K. A Radloff, M M. Rahman, and K. M. Ahmed. (2015) Dissolved Organic Matter Quality in a Shallow Aquifer of Bangladesh: Implications for Arsenic Mobility. Environ. Sci. Tech. 49: 10815-10824.

2015.7 Hun Bok Jung**, **Yan Zheng**; Mohammad W Rahman; Mohammad M Rahman; Kazi M Ahmed. 2015. Redox Zonation and Oscillation in the Hyporheic Zone of the Ganges-Brahmaputra-Meghna Delta: Implications for the Fate of Groundwater Arsenic during Discharge. Applied Geochemistry. 63: 647-660.

Publications (2014): n=2

2014.1 Yang, Q., P. Smitherman, C. T. Hess, C. W. Culbertson, R. G. Marvinney , Smith, A. E. and **Y. Zheng***. Uranium and radon in bedrock aquifers in central Maine: one family, two tales. Environ. Sci. Tech. 48 (8):4298-4306.

2014.2 Sultana, S., Ahmed, K., Mahtab-Ul-Alam, S., Hasan, M., Tuinhof, A., Ghosh, S., Rahman, M., Ravenscroft, P., and **Zheng, Y.*** (2014). Low-Cost Aquifer Storage and Recovery: Implications for Improving Drinking Water Access for Rural Communities in Coastal Bangladesh. J. Hydrol. Eng. , 10.1061/(ASCE)HE.1943-5584.0001100 , B5014007.

Publications (2013): n=10

2013.1 Wen, D., Zhang, F., Zhang, E, Wang, C, Han, S. and **Zheng, Y.*** 2013. Arsenic, Fluoride and Iodine in Groundwater of China. Journal of Geochemical Exploration, 135:1-21.

2013.2 Li, S., Wang, M., Yang, Q., Wang, H., Zhu, J., Zheng, B. and **Zheng, Y**.*, 2013. Enrichment of Arsenic in Surface Water, Stream Sediments and Soils in Tibet. Journal of Geochemical Exploration135:104-116.

2013.3 **Zheng, Y.*,** S.A.Hakim, Q. Nahar, A. van Agthoven and S.V. Flanagan, 2013. Sanitation Coverage in Bangladesh since the Millennium: Consistency Matters. Journal of Water, Sanitation and Hygiene Development, 03.2:240-251

2013.4 Flanagan, S.V., X. Meng and **Y. Zheng*,** 2013. Increasing acceptance to chlorination for household water treatment: Observations from Bangladesh. Waterlines, 32:125-134

2013.5 Mailloux BJ*, Trembath-Reichert E, Cheung J, Watson M, Stute M, Freyer G, Ferguson A, Ahmed KM, Alam MJ, Bucholz BA, Thomas J, Layton A, **Zheng Y**, Bostick BC, van Geen A. 2013, Advection of surface-derived organic carbon fuels

microbial reduction in Bangladesh groundwater. Proceedings of the National Academy of Sciences, 110(14):5331-5. doi: 10.1073/pnas.1213141110.

2013.6 George, C.M.**, Inauen, J., Rahman, S. and **Zheng, Y.,** 2013. The Effectiveness of Educational Interventions to Enhance the Adoption of Fee-based Arsenic Testing in Bangladesh: A Cluster Randomized Controlled Trial. American Journal of Tropical Medicine & Hygiene, doi:10.4269/ajtmh.12-0664

2013.7 Zhang, Y., Li, S., Wang, H., Wang, M., Zeng, B., Zheng, L., Yang, Q., 4 and **Zheng, Y.*** 2013. Evaluation of Arsenic Speciation of Stream and Hot Spring Deposits through X-ray Absorption Spectroscopy and Sorption Experiment. Acta Geologica Sinica (English Edition), 87(supp.): 665-666.

2013.8 Li, S., Wang, M., Wang, H., Zhang, Y., Zheng, B., Yang, Q. and **Zheng, Y.***, 2013. Enrichment of Arsenic in Rivers Originating from the Tibetan Plateau. Acta Geologica Sinica (English Edition), 87(supp.): 638-639.

2013.9 Zhou, M., Clauson, K. M., Sun, Z., Zheng, C. and **Zheng, Y.*,** 2013. Preliminary Assessment of Chemical Characteristics of Dissolved Organic Carbon in Surface Waters of the Hulugou Watershed, Qinghai-Tibetan Plateau. Acta Geologica Sinica (English Edition), 87(supp.): 669-671.

2013.10. Zheng, Y., Yang, Q., Seltzer, A.M., Hemming, N. G. and Hemming, S. R. 2013. Provenance of High Arsenic Holocene Sediment and Low Arsenic Pleistocene Sediment in Bangladesh Aquifers: A Preliminary Assessment. Acta Geologica Sinica (English Edition), 87(supp.): 667-668.

Publications (2012): n=7

2012.1 Jung, H.B.**, Yun, S.T., Kwon, J.S., **Zheng, Y.** (2012) Role of iron colloids in copper speciation during neutralization in a coastal acid mine drainage, South Korea: Insight from voltammetric analyses and surface complexation modeling. Journal of Geochemical Exploration, 112:244-251.

2012.2 He, Y.*, C. Pedigo, B. Lam, Z. Cheng and **Y. Zheng** (2012) Bioaccessibility of arsenic in various types of rice in an *in vitro* gastrointestinal fluid system. Journal of Environmental Science and Health, Part B, 47:74-80.

2012.3 Jung, H.B., B. Bostick, **Y. Zheng***. (2012) Field, Experimental, and Modeling Study of Arsenic Partitioning across a Redox Transition in a Bangladesh Aquifer. Environ. Sci. Tech. 46 (3), 1388-1395.

2012.4 Yang, Q., H.B.Jung, R. G. Marvinney, C. W. Culbertson and **Y. Zheng***. (2012) Can arsenic occurrence rate in bedrock aquifers be predicted? Environ. Sci. Tech. 46 (4), 2080-2087.

2012.5 Legg, T.*, **Y. Zheng**, B. Simone, K. A. Radloff, N. Mladenov, A/ González Peña, D. Knights, H. Siu, M. Mo. Rahman, K. M. Ahmed, D. M. McKnight, D. R. Nemergut. (2012). Carbon, metals and grain size correlate with bacterial community composition in sediments of a high arsenic aquifer. Frontiers in Terrestial Microbiology, 3(82), 23

2012.6 George CM**, **Zheng Y**, Graziano JH, Hossain Z, Rasul SB, Mey JL, et al. Evaluation of an arsenic test kit for rapid well screening in Bangladesh. Environ Sci Technol 2012. 46(20), 11213-11219

2012.7 Flanagan, S.V., Jonston, R.B and **Zheng, Y.*** 2012. Arsenic in tube well water in Bangladesh: health and economic impacts and implications for arsenic mitigation, Bulletin of WHO, 90(11), 839-846.

Publications (2011): n=2

2011. 1 Radloff, K.A.**, **Zheng, Y.**, Michael, H.A., Stute, M., Bostick, B.C., Mihajlov, I., Bounds, M., Huq, M.R., Choudhury, I., Rahman, M.W., Schlosser, P., Ahmed, K.M. and van Geen, A. (2011) Arsenic migration to deep groundwater in Bangladesh influenced by adsorption and water demand. Nature Geoscience, 4(11): 793-798.

2011.2 Dhar R.**, **Zheng Y.**, Saltikov C.W., Radloff K.A., Mailloux B.A., Ahemd K.M. and van Geen A. (2011) Microbes enhance mobility of arsenic in Pleistocene aquifer sand from Bangladesh. Environ. Sci. Tech. 45:2648-2654

Publications (2010): n=6

2010.1 Mladenov N.**, **Zheng Y.**, Miller M. P., Legg T., Simone B., Hageman C., Rahman M. M., Ahmed K. M., and McKnight D. M. (2010) Dissolved organic matter sources and consequences for iron and arsenic mobilization in Bangladesh aquifers. Environ. Sci. Tech. 44:123-128.

2010.2 He, Y.** and **Zheng, Y**. (2010) Assessment of *in vivo* Bioaccessibility of Arsenic in Dietary Rice by a Mass Balance Approach. Science of the Total Environment, 408:1430-1436.

2010.3 Paul M.*, Reisberg L., Vigier N., **Zheng Y**., Ahmed K. M., Charlet L., and Huq M. R. (2010) Dissolved osmium in Bengal plain groundwater: Implications for the marine Os budget. Geochimica et Cosmochimica Acta 74(12): 3432

2010.4 Garnier J. M.*, Travassac F., Lenoble V., Rose J., **Zheng Y.**, Hossain M. S., Chowdhury S. H., Biswas A. K., Ahmed K. M., Cheng Z., and van Geen A.** (2010) Temporal variations in arsenic uptake by rice plants in Bangladesh: The role of iron plaque in paddy fields irrigated with groundwater. Science of The Total Environment 19:4185-4193.

2010.5 **Zheng, Y.*** (2010) Flushing of arsenic from aquifer: Implications for safe drinking water options in high arsenic occurrence areas. In J.-S. Jean, J. Bundschuh, and P. Bhattacharya (ed.) Arsenic in Geosphere and Human Diseases: As2010. CRC Press, Taylor & Francis Group, Leiden, the Netherlands, pp.90-93

2010.6 **Zheng, Y.*** (2010) Mobilization of natural arsenic in groundwater: Targeting low arsenic aquifers in low arsenic occurrence areas. Geology in China. 37:723-729.

Publications (2009): n=4

2009.1 Morabia, A.* and **Zheng, Y**. 2009. On the influence of a raffle upon responses to an urban transportation survey in New York City , Int. J. Public Health, 54:1-4.

2009.2 Yang, Q., Jung, H.-B., Culbertson, C., Marvinney, R., Loiselle, M., Locke, D., Cheek, H., Thibodeau, H. and **Zheng, Y*.** 2009. Spatial Pattern of Groundwater Arsenic Occurrence and Association with Bedrock Geology in Greater Augusta, Maine, USA. Environmental Science & Technology. 43:2714–2719.

2009.3 Jung, H.-B., Charette, M.A., **Zheng, Y.*** 2009. Field, Laboratory, and Modeling Study of Reactive Transport of Groundwater Arsenic in a Coastal Aquifer. Environmental Science & Technology. 43:5333-5338.

2009.4 Datta, S., Mailloux, B., Hoque, M.A., Jung, H.-B., Stute, M., Ahmed, K.M., **Zheng, Y.***, 2009. Enrichment of Arsenic in Sediments from the Meghna River Bank in Bangladesh: Implication for Recycling of Arsenic. Proceedings of the National Academy of Sciences. 106:16930-16935

Publications (2008): n=8

2008.1 **Zheng, Y.***, (2008) The benefit of public transportation: Physical activity to reduce obesity and ecological footprint, Preventive Medicine doi:10.1016/j.ypmed.2007.11.019

2008.2 van Geen A.*, **Zheng Y**., Goodbred S., Horneman A., Aziz Z., Cheng Z., Stute M., Mailloux B., Weinman B., Hoque M. A., Seddique A. A., Hossain M. S., Chowdhury S. H., and Ahmed K. M. (2008) Flushing History as a Hydrogeological Control on the Regional Distribution of Arsenic in Shallow Groundwater of the Bengal Basin. Environ. Sci. Technol. 42(7), 2283-2288.

2008.3 Dhar R. K., **Zheng Y***., Stute M., van Geen A., Cheng Z., Shanewaz M., Shamsudduha M., Hoque M. A., Rahman M. W., and Ahmed K. M. 2008. Temporal Variability of Groundwater Chemistry in Shallow and Deep Aquifers of Araihazar, Bangladesh. Journal of Contaminant Hydrology, 99:97-111.

2008.4 Horneman, A.*, Stute, M., Schlosser, P., Smethie Jr, W., Santella, N., Ho, D.T., Mailloux, B., Gorman, E., **Zheng, Y**., van Geen, A., 2008. Degradation rates of CFC-11, CFC-12 and CFC-113 in anoxic shallow aquifers of Araihazar, Bangladesh. Journal of Contaminant Hydrology. 97:27-41.

2008.5 Weinman, B.*, Goodbred, S.L**., Zheng, Y**., Aziz, Z., Singhvi, A.K., Nagar, Y.C., Steckler, M., van Geen, A., 2008. Contributions of floodplain stratigraphy and evolution to the spatial patterns of groundwater arsenic in Araihazar, Bangladesh. GSA Bulletin. 120:1567-1580.

2008.6. Aziz, Z.*., van Geen, A., Versteeg, R., Horneman, A., **Y. Zheng**, Goodbred, S., Steckler, M., Stute, M., Weinman, B., Gavrieli, I., Hoque, M.A., Shamsudduha, M., Ahmed, K.M., 2008. Impact of local recharge on arsenic concentrations in shallow aquifers inferred from the electromagnetic conductivity of soils in Araihazar, Bangladesh Water Resources Research. 44, W07416, doi:10.1029/2007WR00600.

2008.7 Radloff, KA.**, AR Manning, B. Mailloux, **Y. Zheng**, MM Rahman, MR. Huq, KM Ahmed, M Stute, A van Geen, 2008. Considerations for conducting incubations to study the mechanisms of As release in reducing groundwater aquifers, Applied Geochemistry , 23:3224-3235.

2008.8 A. van Geen*, K. Radloff, Z. Aziz, Z. Cheng, M.R. Huq, K.M. Ahmed, B. Weinman, S. Goodbred, H.B. Jung, **Y. Zheng**, M. Berg, P.T.K. Trang, L. Charlet, J. Metral, D. Tisserand, S. Guillot, S. Chakraborty, A.P. Gajurel, B.N. Upreti. 2008. Comparison of arsenic concentrations in simultaneously-collected groundwater and aquifer particles from Bangladesh, India, Vietnam, and Nepal, Applied Geochemistry , 23:3244-3251.

Publications (2007): n= 4

2007.1 Stute, M.*, **Zheng, Y.,** Schlosser, P., Horneman, A., Dhar, R.K., Datta, S., Hoque, M.A., Seddique, A.A., Shamsudduha, M., Ahmed, K.M., van Geen, A., 2007. Hydrological Control of Arsenic Concentrations in Bangladesh aquifers. Water Resources Research. 43, doi:10.1029/2005WR004499.

2007. 2 **Zheng, Y.*** 2007. The heterogeneity of arsenic in the crust: A linkage to occurrence in groundwater. Quaternary Sciences, 27:6-19.

2007.3 Yu, G., D. Sun and **Y. Zheng***, 2007. Health effects of exposure to natural arsenic from groundwater and coal in China: An overview of occurrence, Environmental Health Perspective, 115(4) 636-642.

2007.4 He, Y., **Y. Zheng***, D. C. Locke. 2007, Cathodic stripping voltammetric analysis of arsenic species in environmental water samples, Microchemical Journal, 85(2): 265-269.

Publications (2006): n= 6

2006.1. Wasserman, G. A.*, X. Liu, F. Parvez, H. Ahsan, D. Levy, P. Factor-Litvak, J. Kline, A. van Geen, V. Slavkovich, N.. J. Lolacono, Z. Cheng, **Y. Zheng**, J. H. Graziano, 2006. Water manganese exposure and children's intellectual function in Araihazar, Bangladesh, Environmental Health Perspectives114 (1): 124-129

2006.2 van Geen, A.*, **Y. Zheng**, Z. Cheng, H. Yi, R. Dhar, J. M. Garnier, J. Rose, A. A. Seddique, M. A. Hoque, and K.M. Ahmed,2006, Impact of irrigation with groundwater elevated in arsenic on rice paddies in Bangladesh, *Science of the Total Environment*, 367 (2-3): 769-777

2006.3 van Geen, A.*, **Y. Zheng**, Z. Cheng, Z. Aziz, A. Horneman, R. K. Dhar, B. Mailloux, M. Stute, B. Weinman, S. Goodbred, A. A. Seddique, M. A. Hoque, and K. M. Ahmed, 2006, A transect of groundwater and sediment properties in Araihazar, Bangladesh: Further evidence of decoupling between As and Fe mobilization, Chemical Geology, 228 (1-3): 85-96

2006.4 van Geen, A.*, Z. Aziz, A. Horneman, B. Weinman, R. K. Dhar, **Y. Zheng**, S. Goodbred, R. Versteeg, A. A. Seddique, M. A. Hope, and K. M. Ahmed (2006), Preliminary evidence of a link between surface soil properties and the arsenic content of shallow groundwater in Bangladesh, Journal Of Geochemical Exploration, 88, 157-161.

2006.5 Jung, H. B., and **Y. Zheng*** (2006), Enhanced recovery of arsenite sorbed onto synthetic oxides by L-ascorbic acid addition to phosphate solution: calibrating a

sequential leaching method for the speciation analysis of arsenic in natural samples, Water Research, 40, 2168-2180.

2006.6 Dean, W. E.*, **Y. Zheng**, J. D. Ortiz, and A. van Geen (2006), Sediment Cd and Mo accumulation in the oxygen-minimum zone off western Baja California linked to global climate over the past 52 kyr, Paleoceanography, 21. doi:000242370800001

Publications (2005): n=2

2005.1. **Zheng, Y**.*, A. van Geen, M. Stute, R. Dhar, Z. Mo, Z. Cheng, A. Horneman, I. Gavrieli, H.J. Simpson, R. Versteeg, M. Steckler, A. Grazioli-Venier, S. Goodbred, M. Shanewaz, M. Shamsudduha, M. A. Hoque, and K. M. Ahmed, 2005, Geochemical and hydrogeological contrasts between shallow and deeper aquifers in two villages of Araihazar, Bangladesh: Implications deeper aquifers as drinking water sources, Geochim. Cosmochim. Acta, 69:5203-5218

2005.2. Keimowitz A. R.**, **Zheng Y**., Chillrud S. N., Mailloux B., Hung H.-B., Stute M., and Simpson H. J., 2005, Arsenic redistribution between sediments and water near a highly contaminated source. Environmental Science and Technology, 39:8606-8613.

Publications (2004): n=7

2004.1. Ortiz, J. S.*, B. O'Connell, J. DelViscio, W. Dean, J. D. Carriquiry, T. Martchitto, **Y. Zheng**, A. van Geen, 2004, Enhanced marine productivity off western North America during warm climate intervals of the past 52 k.y. Geology, 32:521-524

2004.2. Dhar, R. K.**, **Y. Zheng**, J. Rubenstone, and A. van Geen, 2004, Rapid spectrophotometric determination of dissolved inorganic arsenic in groundwater, Analytica Chimica Acta, 526:206-209.

2004.3. Cheng, Z.**, **Y. Zheng**, R. A. Mortlock, A. van Geen, 2004, Rapid multi-element analysis of groundwater by high-resolution inductively coupled plasma mass spectrometry, Anal. Bioanal. Chem., 379:512-518.

2004.4. He, Y., **Y. Zheng***, M. Ramanaraine, D. C. Locke. 2004, Differential Pulse Cathodic stripping voltammetric speciation Analysis of trace level inorganic arsenic in natural waters, Anal. Chim. Acta., 511:55-61

2004.5. Horneman, A.*, A. van Geen, D.V. Kent, P.E. Mathe, **Y. Zheng**, R.K.Dhar, S. O'Connell, M.A. Hoque, Z. Aziz, M. Shamsudduha, A.A. Seddique, and K.M. Ahmed. Decoupling of As and Fe release to Bangladesh groundwater under reducing conditions. Part 1: Evidence from sediment profiles, Geochimica et Cosmochimica Acta, vol. 68, no. 17, p. 3459-3473, September, 2004

2004.6. van Geen, A.*, J. Rose, S.Thoral, J.M.Garnier, **Y.Zheng**, and J.Y.Bottero. Decoupling of As and Fe release to Bangladesh groundwater under reducing conditions. Part II: Evidence from sediment incubations; Geochimica et Cosmochimica Acta, vol. 68, no. 17, p. 3475-3486, September, 2004.

2004.7. **Zheng, Y.*,** M. Stute, A. van Geen, I. Gavrieli, R. Dhar, H. J. Simpson, K. M. Ahmed, 2004, Redox Control of Arsenic Mobilization in Bangladesh Groundwater, Applied Geochemistry 19:201-214.

Publications (2003): n=5

2003.1. van Geen, A.*, **Y. Zheng**, J. . Bernhard, K. G. Cannariato, J. Carriquiry, W. Dean, B. Eakins, J. Pike, 2003, On the preservation of laminated sediments along the western margin of North America. Paleoceanography, 18:1098-2016

2003.2. **Zheng, Y**.*, B. Weinman, T. Cronin, M. Q. Fleisher and R.F. Anderson. 2003, A Rapid Procedure for Thorium, Uranium, Cadmium and Molybdenum in Small Sediment Samples by Inductively Coupled Plasma-Mass Spectrometer: Application in Chesapeake Bay, Applied Geochemistry 18:539-549

2003.3. Shan, X.*, H. Wang, S. Zhang, H. Zhou, **Y. Zheng**, H. Yu and B. Wen, 2003, Accumulation and uptake of light rare earth eleents in a hyperaccumulator *Dicropteris dichotoma*, Plant Science, 165:1343-1353.

2003.4. van Geen, A.*, **Y. Zheng**, R. Versteeg, M. Stute, A. Horneman, R. Dhar, M. Steckler, A. Gelman, C. Small, H. Ahsan, J. Graziano, I. Hussain, and K. M. Ahmed. Spatial Variability of Arsenic in 6000 Contiguous Tube Wells of Araihazar, Bangladesh. Water Resources Research, 39:1140, doi:10,1029/2002WR001617.

2003.5. van Geen, A.*, **Y. Zheng**, M. Stute and K. M. Ahmed. Comment on "Arsenic Mobility and Groundwater Extraction in Bangladesh" (II), Science, 2003, 300: 584c

Publications (2002): n=6

2002.1. **Zheng, Y.*,** R.F. Anderson, P.N. Froelich, W. Beck, A. P. McNichol, T. Guilderson, 2002, Challenges in radiocarbon dating organic carbon in opal-rich marine sediments, Radiocarbon., vol. 44(1) 123-136

2002. 2. **Zheng, Y**.*, R. F. Anderson, A. van Geen, and M. Q. Fleisher, 2002, Preservation of Particulate Non-lithogenic Uranium in Marine Sediments, Geochim. Cosmochim. Acta., 66(17):3085-3092.

2002. 3. **Zheng, Y.*,** R. F. Anderson, and A. van Geen, M. Q. Fleisher. 2002, Remobilization of authigenic uranium in marine sediments by bioturbation, Geochim. Cosmochim. Acta, 66:1759-1772

2002. 4. Pailer, D. E. Bard**, F. Rostek, **Y. Zheng**, R. Mortlock, A. van Geen, 2002, Burial of redox-sensitive metals and organic matter in equatorial Indian Ocean linked to precession, Geochim. Cosmochim. Acta, 66:849-865.

2002. 5. He, Y**., Y. Zheng*** and D. C. Locke. 2002. Differential Pulse Cathodic Stripping Voltammetric Determination of Nanomolar Levels of Dissolved Sulfide Applicable to Field Analysis of Groundwater, Anal. Chim. Acta, 459:209-217.

2002. 6. van Geen, A.*, H. Ahsan, A. Horneman, R. Dhar, **Y. Zheng**, I. Hussain, K. M. Ahmed, A. Gelman, M. Stute, H. J. Simpson, S. Wallace, C. Small, F. Parvez, V. Slavkovich, N. J. Lolacono, , M. Becker, Z. Cheng, H. Momotaj, M. Shahnewaz, A.A. Seddique

and J. Graziano, Promotion of well-switching to mitigate the current arsenic crisis in Bangladesh 2002, Bulletin of the World Health Organization , *80:732-737*

Publications (2000): n=3

2000.1. **Zheng, Y**.*, R. F Anderson, A. van Geen, and J. S. Kuwabara, 2000, Controls of authigenic Mo formation in marine sediment: Linkage to pore water sulfide, Geochim. Cosmochim Acta, 64(23):4165-4178

2000.2. **Zheng, Y**.*, A. van Geen, R. F. Anderson, J. V. Gardner, and W. E. Dean, 2000, Intensification of the northeast Pacific oxygen minimum zone during the Bolling/Allerod warm period, Paleoceanography, 15:528-536

2000.3. Ahsan H.*, Perrin M, Rahman A, Hasnat A, Parvez F, Brandt-Rauf P, **Zheng Y**, Stute M, van Geen A, Graziano J. 2000, Association between drinking water and urinary arsenic levels and skin lesions in Bangladesh. J Occup Environ Med 42(12): 1195-1201.

Publications (1989-1999): n=15

1998.1 Pearson A.*, McNichol A. P., Schneider R. J., Reden K. F. v., and **Zheng Y.**, 1998 Microscale AMS ^{14}C measurement at NOSAMS. Radiocarbon 40:61-75

1997.1. **Zheng, Y**.*, P. Schlosser, J.H. Swift and E.P. Jones, 1997. Oxygen utilization rates in the Nansen Basin, Arctic Ocean: Implications for new production. Deep Sea Research 44: 1923-1943.

1997.2. **Zheng, Y.*** and Kastner, M., 1997. Pore fluid trace metal concentrations and implications for fluid-rock interaction in Barbados Accretionary Prism. In Shipley, T.H., Ogawa, Y., Blum, P., and Bahr, J.M. (Eds.). Proc. ODP, Sci. Results, 156: College Station, TX (Ocean Drilling Program), 163-170.

1997.3. Kastner, M.* and **Y. Zheng** 1997. Chemical and isotopic compositions of pore fluids in accreted and underthrust sediments of the Northern Barbados Ridge: Data Report In Shipley, T.H., Ogawa, Y., Blum, P., and Bahr, J.M. (Eds.). Proc. ODP, Sci. Results, 156: College Station, TX (Ocean Drilling Program), 353-356.

1997.4. Kastner, M.*, **Y. Zheng**, T. Laier, W. Jenkins, T. Ito, 1997. Geochemistry of fluids and flow regime in the décollement zone at the northern Barbados ridge. In Shipley, T.H., Ogawa, Y., Blum, P., and Bahr, J.M. (Eds.). Proc. ODP, Sci. Results, 156: College Station, TX (Ocean Drilling Program),)311-320.

1996.1. Fisher A. T.*, Zwart G., Shipley T., Ogawa Y., Ashi J., Blum P., Bruckmann W., Filice F., Goldberg D., Henry P., Housen B., Jurado M. J., Kastner M., Labaume P., Laier T., Leitch E., Maltman A., Meyer A., Moore J. C., Moore G., Peacock S., Rabaute A., Steiger T., Tobin H., Underwood M., Xu Y., Yin H., and **Zheng Y**. (1996) Relation between permeability and effective stress along a plate-boundary fault, Barbados accretionary complex. Geology 24(4), 307-310.

1996.2. Housen B. A.*, Tobin H. J., Labaume P., Leitch E. C., Maltman A. J., Shipley T., Ogawa Y., Ashi J., Blum P., Bruckman W., Felice F., Fisher A., Goldberg D., Henry

P., Jurado M. J., Kastner M., Laier T., Meyer A., Moore J. C., Moore G., Peacock S., Rabaute A., Steiger T., Underwood M., Xu Y., Yin H., **Zheng Y.**, and Zwart G. (1996) Strain decoupling across the decollement of the Barbados accretionary prism. Geology 24(2), 127-130.

1995.1 Moore J. C*., Shipley T. H., Goldberg D., Ogawa Y., Filice F., Fisher A., Jurado M. J., Moore G. F., Rabaute A., Yin H., Zwart G., Bruckmann W., Henry P., Ashi J., Blum P., Meyer A., Housen B., Kastner M., Labaume P., Laier T., Leitch E. C., Maltman A. J., Peacock S., Steiger T. H., Tobin H. J., Underwood M. B., Xu Y., and **Zheng Y.** (1995) Abnormal Fluid Pressures And Fault-Zone Dilation In The Barbados Accretionary Prism - Evidence From Logging While Drilling. Geology 23(7), 605-608.

1995.2. Labaume P.*, Henry P., Rabaute A., Ogawa Y., Shipley T. H., Blum P., Ashi J., Bruckmann W., Filice F., Fisher A., Golberg D., Housen B., Jurado M. J., Kastner M., Laier T., Leitch E. C., Maltman A. J., Meyer A., Moore G. F., Moore J. C., Peacock S., Steiger T. H., Tobin H. J., Underwood M. B., Xu Y., Yin H. Z., **Zheng Y**., and Zwart G. (1995) Pore-Water Flow And Overpressure In The Northern Barbados Accretionary Prism - Results Of Odp Leg 156. Comptes Rendus De L Academie Des Sciences Serie Ii 320(10), 977-984.

1995.3. **Zheng, Y**.*, P.N. Froelich, M. Torres and A. Dia, 1995. Stable isotopes ($^{18}O/^{16}O$) and $^{87}Sr/^{86}Sr$ ratios in pore fluids of the Chile Triple Junction accretionary prism: implication for diagenesis and fluid migration. In: Proc. ODP Sci. Results. 141:313-319.

1992.1 Shan, X.-Q.*, Chen, B., Jin, L.-Z., **Zheng, Y.**, Hou, X.P., Mou, S.F. 1992. Determination of Sulfur Fractions In Soils By Sequential Extraction, Inductively Coupled Plasma-Optical Emission-Spectroscopy And Ion Chromatography. Chemical Speciation and Bioavailability, 4 (3): 97-103

1991.1. **Zheng, Y.*,** X-Q Shan, P. Sun and L-Z Jin, 1991. Metallothionein separation and analysis by reversed phase high performance liquid chromatography coupled with graphite furnace atomic absorption spectrometry, Chemical Speciation and Bioavailability, 3:30-36.

1991.2. Sun, P.*, X-Q Shan, **Y. Zheng**, L-Z Jin and W-B Xu, 1991. Determination of dietary cadmium-induced metallothioneins in rabbit kidneys and cadmium in metallothioneins by anion-exchange high-performance liquid chromatography coupled with graphite furnace atomic absorption spectrometry, J. Chromatogr. 572(1-2): 73-84 (England.)

1990.1. Shan, X-Q*, **Y. Zheng** and Z-M Ni, 1990. Determination of chromium in urine by graphite furnace atomic absorption spectrometry after solvent extraction with high molecular weight secondary alkyl amine, Atom. Spectroscopy, 11: 116-124.

1989.1. Shan, X-Q*, **Y. Zheng** and Z-M Ni, 1989. Determination of beryllium in urine by graphite furnace atomic absorption spectrometry, Anal. Chim. Acta, 217: 271-280.

Courses Taught at the City University of New York

Undergraduate

GEOL25	Natural Resources and the Environment
ENSCI99	A Guide to Environmental Choices
GEOL100	Introduction to Geology
ENSCI 100	Our Planet in the 21st Century: Challenges to Humanity
ENSCI 111	Introduction to the Environment
ENCI 112	Our Changing Planet: Earth System Science
GEOL270	Geochemistry of the Global Environment
ENSCI373	Environmental Problem Solving
GEOL383	Analytical Methods in Environmental Geochemistry

Graduate

EES1883	Environmental Problems of Urban and Metropolitan Coasts
EES1889	Isotope Tracers in the Environment
GEOL760	Environmental Geochemistry
GEOL766	Analytical Techniques in Environmental Geosciences

Courses Taught at the SUSTech

Undergraduate

ESE322	Environment and Health
ESE202	Environment: A Critical Introduction

SUSTech Services

2018/5 校教学工作部听课团成员
2018/1/5-1/7 2018 SUSTech Global Scientist Forum Organizing Committee and Keynote Speaker
2017/9-present 环境科学与工程学院助理教授夏雨 mentor
2017/4 深圳环境与发展高端论坛组委会 Shenzhen Forum on Environment and Development Organizing Committee
2016/10-present 环境科学与工程学院实验公共平台及安全委员会主任
2016/10-present 前沿交叉学院学术委员会委员
2016/10-present 校化学品管理及实验室安全委员会委员
2016/10-present 校图书馆委员会委员
2016/9-present 环境科学与工程学院 2014 级本科生班主任
2016/9-present 环境科学与工程学院学术委员会委员

Conference Abstract

2016

Sara V Flanagan,Steven E Spayd,Nicholas A Procopio, Steven N Chillrud,Stuart Braman, Robert G Marvinney, Andrew E Smith, and Yan Zheng (2016). Reducing exposure to arsenic from private well water: Evidence for policy intervention from New Jersey. Abstract for American Public Health Association (APHA) Annual Meeting, Oct 29 - Nov 02, 2016, Denver, Colorado

Sara V Flanagan, Steven E Spayd,Nicholas A Procopio,Steven N Chillrud, Stuart Braman,Robert G Marvinney, Andrew E Smith,5and Yan Zheng (2016). Reducing exposure to arsenic from private well water: Who benefits most from traditional testing promotion? Abstract for American Public Health Association (APHA) Annual Meeting, Oct 29 - Nov 02, 2016, Denver, Colorado

2017

Wengeng Cao and Yan Zheng (2017) Evaluation of managed aquifer recharge site suitability for the North China Plain. Abstract for the 44th annual congress of the international association of hydrogeologists, Sept 25-29, 2017, Dubrovnik, Croatia

Xin He, Jens Christian Refsgaard, Huanhuan Qin, Chunmiao Zheng and Yan Zheng (2017) Potential of using managed aquifer recharge to restore groundwater aquifers in North China Plain. Abstract for the 44th annual congress of the international association of hydrogeologists, Sept 25-29, 2017, Dubrovnik, Croatia

Yan Zheng, Qiang Yang, Shehong Li, Yinfeng Zhang, Sidney R. Hemming, Troy Rasbury, N. Gary Hemming (2017) 孟加拉国低砷和高砷地下水沉积物来源同位素示踪研究. Abstract for the 9th National Conference on Environmental Chemistry (Invited Keynote Speaker), Oct 19-22, 2017, Hanzhou, China

Ming Zhang, Miho Yoshikawa, Junjian Wang, Yan Zheng (2017) Strategies for Mitigating Cadmium Contamination of Paddy Soil and Rice in China: Lessons Learned from Japan (Invited Keynote Speaker), 中国国际土壤与地下水修复高峰论坛, Oct 19, 2017, Shanghai, China

Sara Flanagan, Steve Spayd, Nick Procopio, Jessie Gleason and Yan Zheng (2017) Targeted outreach to promote private well testing and identify unsafe arsenic-contaminated wells. Abstract for the NIEHS Superfund Research Program 30th Annual Meeting (Invited), Dec 6-8, 2017, Philadelphia, Pennsylvania, USA

Benjamin C. Bostick, Meng Ma, Yuqin Sun, Jing Sun, Athena A.-T. Nghiem, Henning Prommer, Brian J. Mailloux, Steven N. Chillrud and Yan Zheng (2017) Optimization and Field Testing of Magnetite-Based Arsenic Immobilization Strategies in Yinchuan, China. Abstract for the NIEHS Superfund Research Program 30th Annual Meeting (Invited), Dec 6-8, 2017, Philadelphia, Pennsylvania, USA

Qiang Yang, Yan Zheng, Shehong Li, Yinfeng Zhang, Sidney R. Hemming, Troy Rasbury, N. Gary Hemming (2017) Similar sediment provenance of low and high arsenic aquifers in Bangladesh. Abstract for the American Geophysical Union Fall Meeting, Dec 11-15, 2017, New Orleans, Louisiana, USA

2018

Yan Zheng, Sara V Flanagan and Qiang Yang (2018) Arsenic Mitigation among Private Well Households in Maine and New Jersey: Challenges and Opportunities. Abstract for the Geological Society of America northeastern section meeting (Invited Keynote Speaker), March 18-20, Burlington, Vermont, USA

Yan Zheng (2018) Poison from Nature: Lessons Learned from Arsenic Mitigation Among Private Well Households. University of Birmingham World Water Day Celebration (Invited Keynote Speaker), March 23, Birmingham, UK

Yan Zheng (2018) On the Spatial Heterogeneity of Groundwater Arsenic. Abstract for Goldschmidt Aug 12-17, 2018, Boston, Massachusetts, USA

Ma Meng's BSMAR abstract