MING YE
Professor in Computational Hydrology/Geology
Department of Scientific Computing
489 Dirac Science Library, Florida State University, Tallahassee, FL 32306-4120
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Website: http://people.sc.fsu.edu/~mingye/index.htm

EDUCATION

Ph.D. in Hydrology, Department of Hydrology and Water Resources,
College of Engineering, University of Arizona, December 2002
Minor in Applied Mathematics
Dissertation: Parallel Finite Element Algorithm for Transient Flow in Bounded
Randomly Heterogeneous Domains
Advisor: Shlomo P. Neuman

B. Sc. in Geology, Department of Earth Sciences, Nanjing University, China, July 1997

PROFESSIONAL EXPERIENCE

Professor   8/2017-present
Department of Earth, Ocean, and Atmospheric Science and Geophysical Fluid Dynamics
Institute, Florida State University, Tallahassee, FL

Professor   8/2016-8/2017
Department of Scientific Computing and Geophysical Fluid Dynamics Institute, Florida
State University, Tallahassee, FL

Associate Professor   8/2011-7/2016
Department of Scientific Computing and Geophysical Fluid Dynamics Institute, Florida
State University, Tallahassee, FL

Assistant Professor   1/2007-8/2011
Department of Scientific Computing, Florida State University, Tallahassee, FL

Assistant Research Professor   6/2004-12/2006
Division of Hydrologic Sciences, Desert Research Institute, Las Vegas, NV

Postdoctoral Research Associate   11/2002-5/2004
Hydrology Technical Group, Energy and Environmental Directorate, Pacific Northwest
National Lab, Portland Office, Portland, OR

Graduate Research Assistant   8/1999-10/2002
Department of Hydrology and Water Resources, College of Engineering, University of
Arizona, Tucson, AZ

RESEARCH AND TEACHING INTERESTS

- Numerical simulation of groundwater flow and contaminant reactive transport in
  saturated and unsaturated porous and fractured media
- Uncertainty quantification and risk assessment for hydrologic modeling
- Estimation of nutrient load to groundwater aquifers and surface water bodies

- Karst and sink hole hydrogeology
- Geostatistical methods for site characterization and contaminant remediation
- Stochastic methods in groundwater hydrology
- GIS-based software development for groundwater modeling
- Coastal geomorphology and hydrodynamic modeling
- Numerical modeling of soil respiration for climate change modeling

AWARDS AND HONORS

- 2015, Walter L. Huber Civil Engineering Research Prize, American Society of Civil Engineers
- 2014, Developing Scholar Award, Florida State University
- 2014, Outstanding Contribution in Reviewing Award, Advances in Water Resources
- 2013, Top 10 Cited Paper 2012-2013, Advances in Water Resources
- 2012, Innovator Award, Florida State University
- 2012, Fellow, Geological Society of America
- 2012, Early Career Award, Department of Energy

EDITORIAL BOARD

2014 – present, Associate Editor of *Journal of Hydrology* published by Elsevier
2011 – present, Associate Editor of *Water Resources Research* published by the American Geophysical Union
2009 – 2010, Guest Editor of a special issue entitled "Quantification of model uncertainty in environmental modeling" for the journal of *Stochastic Environmental Research and Risk Assessment* published by Springer
2015 – present, Guest Editor of a special issue entitled "Engagement, Communication, and Decision-Making under Uncertainty" for the journal of *Water Resources Research* published by American Geophysical Union

MEDIA COVERAGE

- **Florida Chamber of Commerce (2015):** Ming Ye was interviewed by Brian LaPointe for a program funded by the Florida Chamber of Commerce for environmental sustainability in Florida.
- **Russia Today International (2015)**: Ming Ye was interviewed by Russia Today International to discuss origins of sinkholes in Russia. The interview is available at https://www.youtube.com/watch?v=NTxE9buMVn4&feature=youtu.be.
- **History Channel (2015)**: Our laboratory study of sinkhole development and catastrophic collapse was included in a one-hour program of the History Channel entitled "Engineering Disaster". The History Channel video is online at http://www.history.com/shows/engineering-disasters

- **PBS/NOVA (2015)**: Our laboratory study of sinkhole development and catastrophic collapse was included in a one-hour program of PBS/NOVA entitled "Sinkholes: Buried Alive". It is covered at FSU news http://news.fsu.edu/More-FSU-News/Researcher-to-appear-on-NOVA-s-Sinkholes-Buried-Alive. The PBS/NOVA video is online at http://www.pbs.org/wgbh/nova/earth/sinkholes.html.
- **WFSU (2014)**: Our laboratory and computational studies on sinkhole development and catastrophic collapse was reported on PBS WFSU in 2014. View the media coverage at http://news.fsu.edu/Watch-and-Listen/Radio-Stories/FSU-researchers-studying-sinkhole-patterns. https://www.youtube.com/watch?v=1d_5yLnlpA0&feature=youtu.be.
- **FSU News (2011)**: Our development of new software for nitrogen transport modeling was report by FSU in 2011. See the report entitled "New software aids fight against nitrates in Florida's groundwater" at https://www.fsu.edu/news/2011/07/06/new.software/.
- **NPR/Morning Edition (2007)**: Our numerical study of radionuclide transport was reported on. See the report entitled "Gas Drilling Plan Near Nuclear Site Raises Worries" at http://www.npr.org/templates/story/story.php?storyId=15056460

GRANTS AND CONTRACTS (CURRENT)

(1) **Multimodel Bayesian Data-Worth Analysis for Groundwater Remediation Design, $455,361 (FSU Budget $271,601)**
Principal Investigator (PI) (Co-PIs: Roseanna Neupauer and Joseph Kasprzyk, University of Colorado, Boulder), National Science Foundation, 8/2016 – 7/2019

(2) **Computational Bayesian Framework for Quantification and Reduction of Predictive Uncertainty in Groundwater Reactive Transport Modeling, $761,437**
Principal Investigator (Single PI), Department of Energy Early Career Award, 7/2012 – 6/2018

(3) **Developing a GIS-Based Software for Estimating Nitrate Fate and Transport from Septic Systems in Surficial Aquifers, $487,309**
Principal Investigator (single PI), Florida Department of Environmental Protection, 9/2011 – 8/2017

GRANTS AND CONTRACTS (COMPLETED)

(4) **Mathematical and Experimental Investigation of Catastrophic Sinkhole Collapse, $25,000**
Principal Investigator, FSU CRC MultiDisciplinary Support (MDS) Program, 2/2014 – 8/2015

(5) **Effect of Calibration Data on Evaluating Plausibility of Alternative Groundwater models, $105,265**
Principal Investigator (single PI), National Science Foundation, 9/2009 – 8/2013

(6) **Mult-Scale Assessment of Prediction Uncertainty in Coupled Reactive Transport Models, $193,634 (total $1,195,310)**

Co-Principal Investigator (PI: Gary Curtis), Subsurface Biogeochemical Research (SBR) Program, Department of Energy, 4/2009 – 4/2013

(7) **Parallel Computing for Assessment of Predictive Uncertainty in Groundwater Reactive Transport Modeling, $75,000**
Principal Investigator (single PI), ORAU/ORNL High Performance Computing (HPC) Grant Program, 6/2009 – 12/2012

(8) **Effect of Near-Term Sea-Level Rise on Coastal Military Infrastructure, $186,667 (total $1,002,000)**
Co-Principal Investigator (PI: Joseph Donoghue), Strategic Environmental Research and Development Program (SERDP), Department of Defense, 4/2009 – 4/2012

(9) **Multimodel Bayesian Analysis of Data Worth in Environmental Modeling, $14,000**
Principal Investigator (single PI), FSU CRC Committee on Faculty Research Support (COFRS) Program, 5/2011 – 9/2011

(10) **Environmental Impacts of Energy Production Systems: Analysis, Evaluation, Training, and Outreach, $10,737 (total $87,417)**
Co-Principal Investigator (PI: Amy Chan-Hilton), Institute for Energy Systems, Economics, and Sustainability, Florida State University, 2/2009 – 6/2011

(11) **Plume-Scale Heterogeneity Characterization and Numerical Simulation of Contaminant Transport at the BC Cribs Site: A Preliminary Study, $14,146**

Principal Investigator (Single PI), Fluor Hanford, 10/2008 – 5/2009

(12) **A New Method of Characterizing Heterogeneity and Uncertainty of Soil Hydraulic Parameters, $30,259**
Principal Investigator (Single PI), Fluor Federal Services, 4/2007 – 9/2007

(13) **Uncertainty Assessment and Data Assimilation for Groundwater Reactive Transport Modeling, $15,863**
Principal Investigator (Single PI), Florida State University, 5/2007 – 8/2007

(14) **Geostatistical and Stochastic Study of Radionuclide Transport in the Unsaturated Zone at Yucca Mountain, $624,678**
Principal Investigator, Department of Energy, 6/2004 – 5/2007

(15) **A New Method to Estimate Soil Hydraulic Parameter Uncertainty and Heterogeneity Using Bayesian Updating and Neural Network Methods, $357,899**
Co-Principal Investigator (PI: Julian Zhu), Department of Energy, 10/2005 – 9/2008

(16) **Uncertainty Analysis of Uranium Transport at Hanford 300 Area, $70,000**
Principal Investigator (single PI), Nuclear Regulatory Commission, 10/2004 – 9/2006

(17) **Using Artificial Neural Networks to Predict Migration from Buried Liquid Discharges, $35,000**

Principal Investigator (single PI), Fluor Federal Services, 6/2005 – 5/2006

COMPUTER SOFTWARE DEVELOPMENT

(1) **ArcNLET: ArcGIS-Based Nitrate Load Estimation Toolkit**

Public-domain software available at http://people.sc.fsu.edu/~mye/ArcNLET/. Developed with student J. Fernando Rios under the support of Florida Department of Environmental Protection.

(2) **VZMOD: Vadose Zone MODel of Nitrogen Transformation and Transport**

Public-domain software available at http://people.sc.fsu.edu/~mye/VZMOD/. Developed with post-doc Liying Wang under the support of Florida Department of Environmental Protection.

TEACHING EXPERIENCE

(1) **Symbolic and Numerical Computing (ISC 3222)**
Department of Scientific Computing, Florida State University, Tallahassee, FL

(2) **Programming for Scientific Applications (ISC 4304)**
Department of Scientific Computing, Florida State University, Tallahassee, FL

(3) **Applied Computational Science II (ISC 5316)**
Department of Scientific Computing, Florida State University, Tallahassee, FL

(4) **Numerical Methods for Earth and Environmental Sciences (ISC 5226)**
Department of Scientific Computing, Florida State University, Tallahassee, FL

(5) **Uncertainty Analysis in Computational Science (ISC 5237)**
Department of Scientific Computing, Florida State University, Tallahassee, FL

(6) **Applied Groundwater Modeling (ISC 5236/GLY 5896)**
Department of Scientific Computing and Department of Geological Sciences, Florida State University, Tallahassee, FL

(7) **Principles of Hydrology (GLY 4820/5827)**
Department of Geological Sciences, Florida State University, Tallahassee, FL

(8) **Geostatistics (GEY 716)**
Department of Geosciences, University of Nevada, Las Vegas, Las Vegas, NV

(9) **Seminar: Groundwater Reactive Transport Modeling (ISC 5939-03)**
Department of Scientific Computing, Florida State University, Tallahassee, FL

(10) **Seminar: Numerical Simulation of Coastal Hydrodynamics (ISC 5939-07)**
Department of Scientific Computing, Florida State University, Tallahassee, FL

(11) **Seminar: Multiphase Flow and Solute Transport Modeling (ISC 5939-02)**
Department of Scientific Computing, Florida State University, Tallahassee, FL

GRADUATE STUDENTS

Ph.D. Degree (7 + 3 current)
(1)   Nur Ahmed, Spring 2017 – present, Geophysical Fluid Dynamics Institute
(2)   Hongzhuan Lei, Fall 2015 – present, Department of Scientific Computing
(3)   Xiaoli Liu (female), Fall 2010 – present, Department of Civil Engineering, Co-advised with Professor Gang Chen

(4)   Roger Benito Pacheco Castro (Summer 2017), Geophysical Fluid Dynamics Institute, Florida State University
        Dissertation: Statistical Analysis of Karst Aquifer Pollution, Karst Flow Model Validation at Laboratory Scale, and Development of Seepage Meter
        Now a scientist at Universidad Autonoma de Yucatan, Mexico
(5)   Bikash Saha (Spring 2017), Department of Scientific Computing, Florida State University, Co-advised with Alan Niedoroda
        Dissertation: Modeling of Complex Behaviors of Submarine Debris Flows
        Now an engineer in the Florida Department of Management Services
(6)   Karina Khazmutdinova (Fall 2016) (Female), Geophysical Fluid Dynamics Institute, Co-advised with Professor Nick Moore in the Math department
        Dissertation: Water and Air Flows in Karstic Caves and Conduits
        Now a post-doc at the Florida State University
(7)   Benjamin McLaughlin (Summer 2015), Department of Scientific Computing, Florida State University, Co-advised with Professor Janet Peterson
        Dissertation: Reduced-Order Modeling of Reactive Transport for Advection-Dominated Problems with Nonlinear Kinetic Reactions
        Now a scientist at the Naval Support Activity Panama City
(8)   Heng Dai (Fall 2014), Department of Scientific Computing, Florida State University
        Dissertation: Uncertainty Quantification for Groundwater Reactive Transport and Coastal Morphological Modeling
        Now a post-doc at the Pacific Northwest National Laboratory
(9)   Dan Lu (Spring 2012) (Female), Department of Scientific Computing, Florida State University
        Dissertation: Assessment of Parametric and Model Uncertainty in Groundwater Modeling
        Now a staff scientist at the Oak Ridge National Laboratory
(10)   Hailin Deng (Fall 2009), Department of Geological Sciences, Florida State University
        Dissertation: Upscaling Reactive Transport Parameters for Porous and Fractured Porous Media
        Now a Scientist at Australia Commonwealth Scientific and Industrial Research Organization (CSIRO)

Master Degree (6 + 2 current)
(1)   Serena Pham (female), Fall 2015 – present, Department of Scientific Computing
(2)   Xuemin Zhang (female), Fall 2016 – present, Department of Scientific Computing

(3)   Benjamin McLaughlin (Fall 2011), Department of Scientific Computing, Florida State University, Co-advised with Professor Janet Peterson
Thesis: Reduced Order Modeling of Reactive Transport in a Column Using Proper Orthogonal Decomposition
Now a doctoral student at the Department of Scientific Computing at the Florida State University

(4)   Heng Dai (Fall 2011), Department of Scientific Computing, Florida State University
Thesis: Barrier Island Responses to Storms and Sea-Level Rise: Numerical Modeling and Uncertainty Analysis
Now a post-doc at the Pacific Northwest National Laboratory

(5)   Raoul Fernandes (Summer 2011), Department of Earth, Ocean, and Atmospheric Science, Florida State University
Thesis: Statistical Methods for Estimating Denitrification Rate
Now an Environmental Engineer at New Zealand Environmental Services

(6)   Fernando Rios (Fall 2010), Department of Scientific Computing, Florida State University
Thesis: A GIS-Based Model for Estimating Nitrate Fate and Transport from Septic Systems in Surficial Aquifers
Now a post-doc at the John Hopkins University

(7)   Geoffery L. Miller (Fall 2010), Department of Scientific Computing, Florida State University
Thesis: Parametric Uncertainty Analysis of Uranium Transport Subsurface Complexation Models
Now a Lecture of the Program of Interdisciplinary Computing of the Florida State University

(8)   Feng Pan (Fall 2005), Department of Geosciences, University of Nevada, Las Vegas
Thesis: Uncertainty Analysis of Radionuclide Transport in the Unsaturated Zone at Yucca Mountain (Thesis advisor)
Now a Research Assistant Professor in the Department of Civil & Environmental Engineering, Energy & Geoscience Institute of the University of Utah

High School (4)

(1)   Deirdre Edward and Alex Howard, FSU Young Scholars Program, Summer 2015
(2)   Andrea Hands and Kanad Sarkar, FSU Young Scholars Program, Summer 2016

POST-DOCS AND VISITING SCHOLARS

Post-docs (7)
(1)   Ahmed Elshall, 3/2014 – 2/2017, Graduated from Louisiana State University
(2)   Mohammad Sayemuzzaman, 6/2014 – 8/2015, Graduated North Carolina A&T State University
(3)   Xuehang Song, 8/2014 – present, now a post-doc at the Pacific Northwest National Laboratory
(4)   Yan Zhu, 2/2014 – 2/2015, now a Lecture at Wuhan University

(5)   Huaiwei Sun, 9/2012 – 10/2013, now a Lecture at Huazhong University of Science and Technology
(6)   Liying Wang (female), 4/2010 – 5/2012, now a Project Manager at the China Pearl River Water Resource Planning Surveying and Designing Co. Ltd,
(7)   Xiaoqing Shi, 1/2011 – 1/2012, now an Associate Professor at Nanjing University

Visiting Scholars (14 + 2 current)
(1)   Jie Ren, 12/2016 – 12/2017, Xi'an University of Technology, China
(2)   Jun Li, 11/2016 – 11/2017, Sichuan University, China

(3)   Yue Zhang, 11/2016 – 11/2017, Yunnan Agricultural University, China
(4)   Bin Xu, 10/2016 – 10/2017, China University of Mining and Technology, China
(5)   Qiming Zhang, 10/2015 – 4/2016, Ningxia University, China
(6)   Li Wang, 10/2015 – 4/2016, Ningxia University, China
(7)   Ting Li, 10/2015 – 4/2016, Ningxia University, China
(8)   Liyu Chen, 10/2015 – 4/2016, Ningxia University, China
(9)   Saeedeh Samani, 2/2015 – 9/2015, University of Tabriz, Iran
(10)   Dangliang Wang, 2/2014 – 2/2015, Now an Associate Professor at China University of Mining and Technology
(11)   Xianqui Zeng, 9/2013 – 8/2014, Now a Lecture at Nanjing University
(12)   Xiaohu Tao, 9/2013 – 8/2014, Now a Doctoral student at Hohai University
(13)   Peigui Liu, 7/2013 – 1/2014, now a Lecturer at Hefei University of Technology
(14)   Dongwei Gui, 5/2013 – 12/2013, now a Research Scientist at Xinjiang Institute of Ecology and Geography
(15)   Dejun Feng, 9/2011 – 8/2012, now an Associate Professor, Southwest Jiaotong University
(16)   Zhiliang Wang, 3/2007 – 2/2008, now a Professor, North China University of Water Conservancy and Electric Power

MEMBERSHIPS

American geophysical Union (AGU)
Geologic Society of America (GSA)
American Society of Civil Engineers (ASCE)
Geochemical Society (GS)
National Groundwater Association (NGWA)
International Association of Hydrological Sciences (IAHS)
International Association for Mathematical Geosciences (IAMG)
Chinese American Water Resources Association (CAWRA)

NATIONAL COMMITTEE/PANEL MEMBERSHIPS

2017, Review Panelist, Strategic Environmental Research and Development Program (SERDP), Department of Defense

2016, Review Panelist, Environmental System Science, Ecohydrology and Biogeochemistry Panel, Department of Energy

2017 – present, Chair of Uncertainty Analysis Advisory Committee, American Geophysical Union

2014 – present, Member of Groundwater Management Committee of the Environmental & Water Resources Institute of the American Society of Civil Engineers

2013 – 2015, Member of Groundwater Technical Advisory Committee, American Geophysical Union

2009, Review Panelist, SciDAC Program (Scientific Discovery through Advanced Computing), Office of Advanced Scientific Computing Research (ASCR), Department of Energy

2003 – present, Working Group 2: Uncertainty Analysis and Parameter Estimation of Interagency Steering Committee on Multimedia Environmental Models (https://iemhub.org/topics/iscmem)

INVITED COLLOQUIUM/SEMINAR/CONFERENCE PRESENTATIONS

2017   Experimental and Numerical Investigation of Catastrophic Sinkhole Collapse, Institute for Computational Engineering and Sciences, 6/5/2017, the University of Texas at Austin, Austin, Texas.

2017   Computational Modeling and Uncertainty Analysis for Advanced Understanding of Complex Systems, 6/6/2017, Texas Bureau of Economic Geology, Austin, Texas.

2017   Computational Modeling and Uncertainty Analysis for Advanced Understanding of Complex Systems, 4/10/2017, Department of Petroleum and Mineral Engineering, Pennsylvania State University, University Park, Pennsylvania.

2017   Groundwater Modeling and Uncertainty Analysis toward Advanced Understanding of Subsurface Environmental Problems, 3/22/2017, Department of Geological Sciences, University of Texas, San Antonio, Texas.

2016   Nitrogen Contamination in Florida and Numerical Estimation of Nitrogen Loading from Septic Systems to Surface Waterbodies, 10/13/2016, Kentucky Geological Survey, Lexington, Kentucky

2016   Experimental and Numerical Investigation of Catastrophic Sinkhole Collapse, 10/14/2016, Department of Earth and Environmental Sciences, University of Kentucky, Lexington, Kentucky

2016   Global Sensitivity Analysis to Identify Important System Processes and Parameters under Model Uncertainty, 8/17/2016, Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

2016   Nitrogen Contamination in Florida and Numerical Estimation of Nitrogen Loading from Septic Systems to Surface Waterbodies, International Association for Hydro-Environmental Engineering and Research, 2016 Summer Seminar, University of Central Florida, 8/15/2016, Orlando, FL.

2016   Evaluation of Nitrogen Contamination from Septic Systems in Coastal Areas, International Symposium on Sustainable Development in Water Resources and Ecological Environment, Jinan University, Guangzhou, Guangdong, China, March 25 – 29, 2016.

2015   Short course, TPE (Third Pole Environment) and TiP (Tibetan Plateau: Formation – Climate – Ecosystems) Science & Technology Training, organized by the Institute of Tibetan Plateau Research, Chinese Academy of Science, Kunming, Yunnan, August 10 – 23, 2013.

2015   ArcNLET-Based Numerical Simulation of Nitrogen Transport in Soil and Groundwater for Estimating Nitrogen Loading from Septic Systems to Surface Waterbodies, July 9, Lower St. Johns River Water Management District, Palatka, FL.

2015   Computational Bayesian Framework for Quantification of Predictive Uncertainty in Environmental Modeling, Environmental System Science PI Meeting, Department of Energy, April 28 – 29, Washing D.C.

2014   A Bayesian Framework for Environmental Uncertainty Quantification with Application to Soil Carbon Modeling, August 5, Climate Change Science Institute, Oak Ridge National Laboratory, Oak Ridge, TN

2014   Global Sensitivity Analysis for Groundwater Modeling, September 22, Department of Hydrosciences, College of Earth Science and Engineering, Nanjing University, Nanjing, China

2014   Advances in Unccertainty Analysis for Groundwater Reactive Transport Modeling, September 16, State Key Laboratory of Water Resources and Hydropower Engineering Science, Wuhan University, Wuhan, China

2014   Advances in Unccertainty Analysis for Groundwater Reactive Transport Modeling, September 19, Department of Civil and Environmental Engineering, Hefei University of Technology, Hefei, China

2014   A Bayesian Framework for Environmental Uncertainty Quantification with Application to Soil Carbon Modeling, September 12, Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Beijing, China

2014   A Bayesian Framework for Uncertainty Quantification for Groundwater Reactive Transport Modeling, March 11, Illinois Geological Survey, Champaign, IL.

2014   Bayesian Approaches of Uncertainty Quantification for Groundwater Reactive Transport Modeling, February 14, Department of Geosciences, University of South Florida, Tampa, FL.

2014   A Bayesian Framework for Uncertainty Quantification with Application to Groundwater Reactive Transport Modeling, SIAM Conference on Uncertainty Quantification, March 31 – April 3, Savannah, GA.

2014   Risk Analysis and Decision-Making under Uncertainty, Interagency Steering Committee on Performance and Risk Assessment Community of Practice Annual Technical Exchange Meeting, December 11 – 12, Las Vegas, NV.

2013   A Bayesian Framework for Uncertainty Quantification and its Implementation using Sparse-Grid Collocation Schemes: with Application to Groundwater Reactive Transport Modeling, December 9, Lawrence Berkeley National Laboratory, Berkeley, CA.

2013 An Overview of ArcNLET and Associated Tools for Estimation of Nitrate Load from Septic Systems to Surface Water Bodies, March 7th, Lower St. Johns River Water Management District TAC Meeting, Jacksonville, FL.

2012 Quantification of Predictive Uncertainty in Subsurface Environmental Modeling, May 28th, Department of Hydrosciences, College of Earth Science and Engineering, Nanjing University, Nanjing, China

2012 Quantification of Predictive Uncertainty in Subsurface Environmental Modeling, May 22nd, Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Beijing, China

2012 Quantification of Predictive Uncertainty in Subsurface Environmental Modeling, May 3rd, State Key Laboratory of Water Resources and Hydropower Engineering Science, Wuhan University, Wuhan, China

2011 Numerical Modeling and Uncertainty Analysis for Effects of Near-Term Sea-Level Rise on Barrier Islands, October 31st, Florida Climate Institute, Tallahassee, FL.

2011 Quantification of Model and Parametric Uncertainty in Surface Complexation Models for Uranium Transport Modeling, August 29th, Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

2011 Estimation of Nitrate Load from Septic Systems to Surface Water Bodies Using ArcNLET: an ArcGIS-Based Nitrate Load Estimation Toolkit, Florida Storm Association Symposium: New Directions in Stormwater Permits and Programs, September 9, Orlando, FL.

2011 Multimodel Bayesian Analysis of Data-Worth Applied to Unsaturated Fractured Tuffs, International Conference on Groundwater: Our Source of Security in an Uncertain Future, September 19 – 21, Pretoria, South Africa

2011 Arc-NLET: Nitrate Load Estimation Toolkit, 2011 Seven Hills Regional User Group (SHRUG) GIS Workshop, Tallahassee, FL.

2010 Assessment of Conceptual Model Uncertainty Using Bayesian Model Averaging Method: Theory and Applications, January 14th, Department of Civil and Environmental Engineering, University of California, Berkeley.

2010 Multimodel Bayesian Analysis of the Worth of Data, 2010 Fall Meeting of American Geophysical Union, San Francisco, CA.

2010 Groundwater Reactive Transport Modeling under Uncertainty, Joint Mathematics Meetings, January 13 – 16, San Francisco, California.

2009 Evaluation of Three Methods of Characterizing Vadose Zone Heterogeneity with Layer Structures, July 7th, U.S. Geological Survey, Boulder Colorado.

2009 Assessing and Optimizing the Worth of Information under Model, Parameter and Data Uncertainties, AGU Annual meeting, December 14 – 18, San Francisco, California.

2009 Multi-model Analysis and Averaging using UCODE and MMA with Application of Assessing Geochemical Model Uncertainty at the Naturita Site, Public Meeting and Workshop of the Interagency Steering Committee on Multimedia Environmental Models (ISCMEM), October 13 – 15.

2009 Groundwater model calibration and uncertainty quantification, SIAM Annual Meeting, July 6 – 10, Denver, Colorado.

2008 Use of Groundwater Modeling for Uncertainty Assessment in Hydrogeology: With Application to DOE Offsite Management, Department of Mechanical Engineering, Florida State University.

2007 Uncertainty Assessment in Hydrogeology: With Applications at Two DOE Sites, Department of Geological Sciences, Florida State University.

2006 Geostatistical Characterization, Upscaling, and Numerical Modeling of a Field Experiment at the DOE Hanford Site, Department of Civil Engineering, Boise State University.

2006 Assessment of Radionuclide Transport Uncertainty in Unsaturated Zone of Yucca Mountain, Department of mechanical Engineering, University of Nevada, Las Vegas.

2005 Applied Geostatistics in Stochastic and Uncertainty Analysis, Department of Geosciences, University of Nevada, Las Vegas.

NATIONAL/INTERNATIONAL CONFERENCE SESSION CHAIR POSITIONS

2016, Conference Organizing Committee, Annual meeting of International Professionals for the Advancement of Chinese Earth Sciences, Wuhan, China

2015, Convener of two sessions on environmental uncertainty assessment and nutrient modeling in the ASCE EWRI Annual Meeting

2014, Convener and chair of a session on environmental uncertainty assessment in the AGU Annual Meeting

2012, Convener and chair of a session on hydrogeologic uncertainty assessment, Annual meeting of Geological Society of America (GSA)

2004 – 2009, Convener and chair of sessions on environmental uncertainty assessment in the AGU Annual Meetings

2008, Convener and chair of a session on multi-model evaluation in the NGWA Groundwater Summit 2008

2008, Convener and chair of a session on numerical modeling in the Computational Methods in Water Resources Meeting

REVIEWER FOR JOURNALS AND FUNDING AGENCIES

Acta Agriculturae Scandinavica, Section B – Plant Soil Science
Advances in Water Resources
American Society of Agricultural and biological Engineers

Analytical Chemistry

ASCE Journal of Hydrologic Engineering

Computers & Geosciences

Environmental and Engineering Geoscience

Environmental Modeling and Software

Environmental Engineering Science

Environmental Science & Technology

Environment, Systems and Decisions

Ground Water

Geophysical Research Letter

GSA Today

Hydrogeology Journal

Hydrological Processes

Hydrology and Earth System Sciences

International Journal of Greenhouse Gas Control

Journal of Hydrology

Journal of Hydrologic Engineering

Journal of Coastal Research

Journal of Computational Physics

Journal of Contaminant Hydrology

Journal of Hazardous Materials

Journal of Hydroinformatics

Journal of Hydrology

Journal of Hydrodynamics

Mathematical Geosciences

Probabilistic Engineering Mechanics

Science of the Total Environment

SIAM Journal on Scientific Computing

SPE Journal

Stochastic Environmental Research and Risk Analysis

Vadose Zone Hydrology

Water Resources Research

Department of Energy

National Science Foundation

U.S. Geological Survey

Elsevier Publisher

MEMBER OF FSU GRADUATE STUDENT COMMITTEES

2016 Huansong Fu, Doctoral student, Department of Computer Science, Florida State University

2016 Ryan Learner, Doctoral Candidate, Department of Scientific Computing, Florida State University

2016 Philip Boehner, Doctoral Candidate, Department of Scientific Computing, Florida State University

2016 Karina Khazmutdinova, Doctoral Candidate, Geophysical Fluid Dynamics Institute, Florida State University

2016 Zexuan Xu, Ph.D., Department of Earth, Ocean, and Atmospheric Science, Florida State University

2015 Ryan Learn, Master, Department of Scientific Computing, Florida State University

2015 Bappaditya Nag, Doctoral student, Department of Earth, Ocean, and Atmospheric Science, Florida State University

2015 Jean Michael Marcelin, Doctoral student, Department of Geography, Florida State University

2015 Michael Kozar, Doctoral student, Department of Earth, Ocean, and Atmospheric Science, Florida State University

2015 Jiaxin Feng, Doctoral student, Department of Earth, Ocean, and Atmospheric Science, Florida State University

2015 Rui Gu, Ph.D., Department of Scientific Computing, Florida State University

2014 Guanyu Tian, Doctoral student, Department of Computer Science, Florida State University

2013 David Witman, Master, Department of Computer Science, Florida State University

2013 Jeremy A. Sauer, Ph.D., Geophysical Fluid Dynamics Institute, Florida State University

2013 Evan Bollig, Ph.D., Department of Scientific Computing, Florida State University

2013 Nathan Lay, Ph.D., Department of Scientific Computing, Florida State University

2013 Nathan Crock, Master, Department of Scientific Computing, Florida State University

2013 Xiaoying Zhang, Ph.D., Department of Earth, Ocean, and Atmospheric Sciences, Florida State University

2013 Corey White, Master, Department of Earth, Ocean, and Atmospheric Sciences, Florida State University

2012 Francisco Escobar, Ph.D. Candidate, Department of Civil and Environmental Engineering, Florida State University

2012 Mamdouh Mohamed, Ph.D., Department of Scientific Computing, Florida State University

2012 Guannan Zhang, Ph.D., Department of Scientific Computing, Florida State University

2012 Xi Chen, Ph.D., Department of Scientific Computing, Florida State University

2012 Detelina Stoyanova, Master, Department of Scientific Computing, Florida State University

2012 Rui Gu, Master, Department of Scientific Computing, Florida State University

2012 Xizhen Du, Ph.D., Department of Earth, Ocean, and Atmospheric Sciences, Florida State University

2011 Nabanita Raha Das, Ph.D., Department of Earth, Ocean, and Atmospheric Science, Florida State University

2011 Xue Han, Master, Department of Earth, Ocean, and Atmospheric Science, Florida State University

2011 Josue Gallegos, Master, Department of Earth, Ocean, and Atmospheric Science, Florida State University

2011 Morgan Askins, Bachelor, Department of Physics, Florida State University

2010 Xinya Li, Ph.D., Department of Earth, Ocean, and Atmospheric Science, Florida State University

2010 Steven Henke, Master, Department of Scientific Computing, Florida State University

2010 Juxiu Tong, Ph.D., Department of Earth, Ocean, and Atmospheric Science, Florida State University

2009 Luanjing Guo, Master, Department of Geological Sciences, Florida State University

2009 Rana Parshad, Ph.D., Department of Mathematics, Florida State University

2009 Hill Thompson, Ph.D., Department of Physics, Florida State University

2009 Irina Carbone, Ph.D., Department of Chemistry and Biochemistry, Florida State University

2009 Yenan Qu, Master, Department of Scientific Computing, Florida State University

MEMBER OF EXTERNAL GRADUATE STUDENT COMMITTEES

2016 Tianfang Xu, Ph.D., Department of Civil and Environmental Engineering, University of Illinois, Urbana-Champion

2017 Samaneh Sadeghi, Ph.D., Department of Civil and Environmental Engineering, University of Alberta, Canada

LIST OF PUBLICATIONS

Peer-Reviewed Journal Articles (Under Review)

1. Elshall, A.S. (*post-doc*), **M. Ye**, G.-Y. Niu, and G.A. Barron-Gafford, Effect of likelihood function selection on Bayesian inversion and uncertainty quantification for microbial soil respiration models, *Journal of Geophysical Research – Biogeosciences*, Under Revision.

2. Elshall, A.S. (*post-doc*), **M. Ye**, F. Zhang, G.-Y. Niu, and G.A. Barron-Gafford, Relative model score: A unified metric for model ranking, *Stochastic Environmental Research and Risk Assessment*, Under Review.

3. Song, X. (*post-doc*), **M. Ye**, X. Chen, Z. Dai, and G. Hammond, Delineating Facies Spatial Distribution by Integrating Ensemble Data Assimilation and Indicator Geostatistics, *Water Resources Research*, Under Review.

4. Sayemuzzaman, M. (*post-doc*) and **M. Ye** (2017), Multivariate statistical and trend analyses for surface water quality in the central Indian River Lagoon area, Florida, *Environemtal Earth Sciences*, Under Review.

5. Dai, H. (*student*), **M. Ye**, and A.W. Niedoroda, Uncertainty and Sensitivity Analyses for Simulating Barrier Island Geomorphologic Responses to Future Storms and Sea-level Rise, *Journal of Coastal Research*, Under Review.

6. Zeng, X. **M. Ye**, J. Wu, D. Wang, and X. Zhu (2017), Improved nested sampling and surrogate-enabled comparison with other marginal likelihood estimators, *Water Resources Research*, Under Review.

7. Chen, Z., L. Shi, **M. Ye**, Y. Zhu, and J. Yang, Global sensitivity for identifying important parameters of nitrogen nitrification and denitrification under model and scenario uncertainty, *Water Resources Research*, Under Revision.

8. Xiao, L., **M. Ye**, and Y. Xu (2017), A new solution for confined-unconfined flow toward a fully penetrating well in a confined aquifer, Ground Water, Under Review.

9. Samani, S., **M. Ye**, F. Zhang, G. Tang, A.S. Elshall, and A.A. Moghaddam, Impacts of Prior Parameter Distributions on Statistical Evaluation of Model Complexity, *Water Science and Engineering*, Under Review.

10. Mo, S., D. Lu, X. Shi, G. Zhang, **M. Ye**, J. Wu, and J. Wu (2017), A Talour expansion-based adaptive design strategy for global surrogate modeling with applications in multiphase flow simulation, *Water Resources Research*, Under Revision.

11. Zhang, H., F. Zhang, G. Zhang, Y. Ma, K. Yang, and **M. Ye** (2017), Evaluation of daily air temperature estimation on glacier surface in Tibetan plateau using MODIS LST data, *Journal of Geophysical Research – Atmosphere*, Under Review.

Peer-Reviewed Journal Articles (Published)

2017 (12 papers)

74. Mao, W., J.Z. Yang, Y. Zhu, **M. Ye**, and J.W. Wu (2017), Loosely coupled SaltMod for simulating groundwater and salt dynamics under well-canal conjunctive irrigation in semi-arid areas, Agricultural Water Management, 192, 209-220, DOI: 10.1016/j.agwat.2017.07.012.

73. Samani, S, Moghaddam, A.A., and **M. Ye** (2017), Investigating the effort of complexity on groundwater flow modeling uncertainty, *Stochastic Environmental Research and Risk Assessment*, DOI 10.1007/s00477-017-1436-6.

72. Ma, Y., Q. Zhang, and **M. Ye** (2017), Mean-square dissipativity of numerical methods for a class of resource-competition models with fractional Brownian motion, *Systems Science & Control Engineering*, 5:1, 268-277, DOI: 10.1080/21642583.2017.1333469

71. Zhang, Q., **M. Ye**, H. Lei, and Q. Jin (2017), Asymptotic behavior of a class of resources competition biology species system by the fractional Brownian motion, the ANZIAM Jounral, 58, 3-4, 491-499, DOI: 10.1017/S1446181117000098

70. Song, X., **M. Ye**, and K. Wang (2017), Strain localization in a solid-water-air system with random heterogeneity via stabilized mixed finite elements, *Internal Journal for Numerical Methods in Engineering*, DOI: 10.1002/nme.5590.

69. Pacheco-Castro, R. (*student*), J. Pacheco-Avila, **M. Ye**, A. Cabrera Sansoers, (2017), Groundwater quality: analysis of its temporal and spatial variability in a karst aquifer, *Ground Water*, doi: 10.1111/gwat.12546.

68. Xu, T., A. J. Valocchi, **M. Ye**, and F. Liang (2017), Quantifying model structural error: Efficient Bayesian calibration of a regional groundwater flow model using surrogates and a data-driven error model, Water Resour. Res., 53, doi:10.1002/2016WR019831.

67. Dai, H., X. Chen, **M. Ye**, X. Song, and J. M. Zachara (2017), A geostatistics-informed hierarchical sensitivity analysis method for complex groundwater flow and transport modeling, Water Resour. Res., 53, doi:10.1002/2016WR019756.

66. Xu, T., A. J. Valocchi, **M. Ye**, F. Liang, and Y.-F. Lin (2017), Bayesian calibration of groundwater models with input data uncertainty, Water Resour. Res., 53, doi:10.1002/2016WR019512.

65. Dai, H. (*student*), **M. Ye**, A.P. Walker, and X. Chen (2017), A new process sensitivity index to identify important system processes under process model and parametric uncertainty, *Water Resources Research*, 53, DOI: 10.1002/2016WR019715.

64. Song, X., K. Wang, and **M. Ye** (2017), Localized failure in unsaturated soils under non-isothermal conditions, *Acta Geotechnica*, DOI 10.1007/s11440-017-0534-4.

63. Zhu, Y. (*post-doc*), L. Shi, **M. Ye**, and J. Yang (2017), Development and application of a fully integrated model for saturated-saturated nitrogen reactive transport, *Agricultural Water Management*, 180, 35-49. http://dx.doi.org/10.1016/j.agwat.2016.10.017.

62. **Ye, M.**, H. Sun, and K. Hallas (2017), Numerical Estimation of Nitrogen Load from Septic Systems to Surface Water Bodies in St. Lucie River and Estuary Basin, Florida, *Environmental Earth Sciences*, 76(1), 1-14, doi:10.1007/s12665-016-6358-y.

2016 (10 papers)

61. Cao, B., Q. Zhang, and **M. Ye** (2016), Exponential stability of impulsive stochastic genetic regulatory networks with time-varying delays and reaction-diffusion, *Advances in Difference Equations*, 307, DOI:10.1186/s13662-016-1033-x.

60. Zhang, H., F. Zhang, **M. Ye**, T. Che, and G. Zhang (2016), Estimating daily air temperatures over the Tibetan Plateau by dynamically integrating MODIS LST data, *Journal of Geophysical Research - Atmospheres*, 121, 11,425–11,441, doi:10.1002/2016JD025154.

59. Zhu, Y. (*post-doc*), L. Shi, J. Wu, **M. Ye**, L. Cui, and J. Yang (2016), Regional quasi-three-dimensional unsaturated-saturated water flow model based on a vertical-horizontal splitting concept, *Water*, 8(5), 195, doi:10.3390/w8050195.

58. **Ye, M.**, L. Wang (*post-doc*), K.F. Pohlmann, and J.B. Chapman (2016), Estimate groundwater interbasin flow using multiple models and multiple types of calibration data, *Ground Water*, 54(6), 805-817, doi:10.1111/gwat.12422.

57. Fatehnia, M., K. Tawfiq, **M. Ye** (2016), Estimation of saturated hydraulic conductivity from double-ring infiltrometer measurements, European Journal of Soil Science, 67, 135 – 147, doi:10.1111/ejss.12322.

56. McLaughlin, B. (*student*), J. Peterson, **M. Ye** (2016), Stabilized reduced order models for the advection-diffusion-reaction equation using operator splitting, Computers and Mathematics with Applications, 71(11), 2407-2420, 10.1016/j.camwa.2016.01.032.

55. Liu, P. (*post-doc*), A.S. Elshall (*post-doc*), **M. Ye**, P. Beerli, X. Zeng, D. Lu, and Y. Tao (2016), Evaluate marginal likelihood with thermodynamic integration method and comparison with several other numerical methods, *Water Resources Research*, 52, doi:10.1002/2014WR016718.

54. Zeng, X. (*post-doc*), **M. Ye**, J. Burkardt, J. Wu, and D. Wang (2016), Evaluating two sparse grid surrogates and two adaptation criteria for groundwater Bayesian uncertainty analysis, *Journal of Hydrology*, 535, 120-134, DOI: 10.1016/j.jhydrol.2016.01.058.

53. Zhu, Y. (*post-doc*), **M. Ye**, E. Roeder, R.W. Hicks, L. Shi, and J. Yang (2016), Estimating ammonium and nitrate Load from septic systems to surface water bodies within ArcGIS environments, Journal of Hydrology, 532, 177-192, DOI: 10.1016/j.jhydrol.2015.11.017.

52. Hill, M.C., D. Kavetski, M. Clark, **M. Ye**, M. Arabi, D. Lu, L. Foglia, and S. Mehl (2016), Practical use of computationally frugal model analysis methods, *Ground Water*, 54 (2), 159-170, doi: 10.1111/gwat.12330.

2015   (6 papers)

51. Lu, D. (*post-doc*), **M. Ye**, and G.P. Curtis (2015), Maximum Likelihood Bayesian Model Averaging and its Predictive Analysis for Groundwater Reactive Transport Models, *Journal of Hydrology*, 529, 1859 – 1873, DOI:10.1016/j.jhydrol.2015.07.029.

50. Dai, H. (*student*) and **M. Ye** (2015), Variance-Based Global Sensitivity Analysis for Multiple Scenarios and Models with Implementation Using Sparse Grid Collocation, *Journal of Hydrology*, 528, 286 – 300, DOI:10.1016/j.jhydrol.2015.06034.

49. Dai, H. (*student*), **M. Ye**, A.W. Niedoroda (2015), A model for simulating barrier island geomorphologic responses to future storm and sea-level rise impacts, *Journal of Coastal Research*, DOI: 10.2112/JCOASTRES-D-14-00094.1.

48. Song, X., J. Zhang, C. Zhan, Y. Xuan, **M. Ye**, C. Xu (2015), Global sensitivity analysis in hydrological modeling: Review of concepts, methods, theoretical framework, and applications, *Journal of Hydrology*, 523(4), 739-757, doi:10.1016/j.jhydrol.2015.02.013.

47. Elshall, A.S. (*post-doc*), H.V. Pham, F.T.C. Tsai, L. Yan, and **M. Ye** (2015), Parallel inverse modeling and uncertainty quantification for computationally demanding groundwater flow models using covariance matrix adaptation, ASCE Journal of Hydrologic Engineering, DOI: 10.1061/(ASCE)HE.1943-5584.0001126, 04014087.

46. Zhang, F., H.B. Zhang, S.C. Hagen, **M. Ye**, D.B. Wang, D.W. Gui, C. Zeng, L.D. Tian, and J.S. Liu (2015), Snow cover and runoff modelling in a high mountain catchment with scarce data: effects of temperature and precipitation parameters, 29(1), 52-65, *Hydrological Processes*, DOI: 10.1002/hyp.10125.

2014 (5 papers)

45. Zhang, X., G.-Y. Niu, A. S. Elshall, **M. Ye**, G. A. Barron-Gafford, and M. Pavao-Zuckerman (2014), Assessing five evolving microbial enzymemodels against fieldmeasurements froma semiarid savannah – What are the mechanisms of soil respiration pulses? Geophys. Res. Lett., 41(18), 6428-6434, doi:10.1002/2014GL061399.

44. **Ye, M.**, J.F. Rios (*student*), and L. Shi (2014), A new ArcGIS-based software of uncertainty analysis for nitrate load estimation, Groundwater, 52(5), 649-650, doi: 10.1111/gwat.12228.

43. Lu, D. (*student*), **M. Ye**, M.C. Hill, E.P. Poeter, and G.P. Curtis (2014), Integration of Markov chain Monte Carlo simulation into UCODE for Bayesian uncertainty analysis, Environmental Modeling and Software, 60, 45-56, http://dx.doi.org/10.1016/j.envsoft.2014.06.002.

42. Shi, X. (*post-doc*), **M. Ye**, G.P. Curtis, G.L. Miller, P.D. Meyer, M. Kohler, S. Yabusaki, and J. Wu (2014), Assessment of parametric uncertainty for groundwater reactive transport modeling, Water Resour. Res., 50(5), 4416-4439, doi:10.1002/2013WR013755.

41. Song, X. (s*tudent*), L. Shi, **M. Ye**, J. Yang, and I.M. Navon (2014), Numerical comparison of iterative ensemble Kalman filter for unsaturated flow inverse modeling, *Vadose Zone Journal*, 13(2), NIL_2-NIL_13, doi:10.2136/vzj2013.05.0083.

2013 (7 papers)

40. Zhang, G. (*student*), D. Lu (*student*), **M. Ye**, M. Gunzburger, and C. Webster (2013), An adaptive sparse-grid high-order stochastic collocation method for Bayesian inference in groundwater reactive transport modeling, *Water Resour. Res.*, 49, doi:10.1002/wrcr.20467.

39. Lu, D. (*student*), **M. Ye**, P.D. Meyer, G.P. Curtis, X. Shi, X.-F. Niu, and S.B. Yabusaki (2013), Effect of error covariance structure on estimation of model averaging weights and predictive performance, *Water Resources Research*, 49, 1-20, doi:10.1002/wrcr.20441.

38. Wang, L. (*post-doc*), **M. Ye**, P.Z. Lee, and R.W. Hicks (2013), Management of nitrogen contamination using VZMOD: a vadose zone model for simulation of nitrogen transformation and transport, *Environment, Systems & Decisions*, doi: 10.1007/s10669-013-9445-6

37. Wang, L. (*post-doc*), **M. Ye**, J.F. Rios, R. Fernandes, P.Z. Lee, and R.W. Hicks (2013), Estimation of nitrate load from septic systems to surface water bodies using an ArcGIS-based software, *Environmental Earth Sciences*, DOI:10.1007/s12665-013-2283-5.

36. Zha, Y. (*student*), L. Shi, **M. Ye**, and J. Yang (2013), A general Ross method for two- and three-dimensional variably saturated flow, *Advances in Water Resources*, 54, 67 – 77, doi:10.1016/j.advwatres.2013.01.002.

35. Deng, H. (*student*), Z. Dai, A.V. Wolfsberg, **M. Ye**, P.H. Stauffer, Z. Lu, and E. Kwicklis (2013), Upscaling Retardation Factor in Hierarchical Porous Media with Multimodal Reactive Mineral Facies, *Chemosphere*, 91(3), 248 – 257, doi:10.1016/j.chemosphere.2012.10.105.

34. Rios, J.F. (*student*), **M. Ye**, L. Wang, P.Z. Lee, H. Davis, and R.W. Hicks (2013), ArcNLET: A GIS-based software to simulate groundwater nitrate load from septic systems to surface water bodies, *Computers and Geosciences*, 52, 108-116, doi:10.1016/j.cageo.2012.10.003.

2012 (7 papers)

33. Zhu, Y. (*student*), L. Shi, L. Lin, J. Yang, **M. Ye** (2012), A Fully Coupled Numerical Modeling for Regional Unsaturated-Saturated Water Flow, *Journal of Hydrology*, 475, 188-203, doi:10.1016/j.jhydrol.2012.09.048.

32. Lu, D. (*student*), **M. Ye**, and M.C. Hill (2012), Analysis of Regression Confidence Intervals and Bayesian Credible Intervals for Uncertainty Quantification, *Water Resources Research*, 48, W09521, doi:10.1029/2011WR011289.

31. Gupta, H. V., M. P. Clark, J. A. Vrugt, G. Abramowitz, and **M. Ye** (2012), Towards a comprehensive assessment of model structural adequacy, *Water Resources Research*, 48, W08301, doi:10.1029/2011WR011044.

30. Shi, X. (*post-doc*), **M. Ye**, S. Finsterle, and J. Wu, Comparing nonlinear regression and Markov chain Monte Carlo methods for assessment of predictive uncertainty in vadose zone modeling, *Vadose Zone Journal*, 11(4), doi:10.2136/vzj2011.0147.

29. Lu, D. (*student*), **M. Ye**, S.P. Neuman, and L. Xue (2012), Multimodel Bayesian analysis of data-worth applied to unsaturated fractured tuffs, Advances in Water Resources, 35, 69-82, DOI: 10.1016/j.advwatres.2011.10.007.

28. Neuman, S.P., L. Xue, **M. Ye**, and D. Lu (2012), Bayesian analysis of data-worth considering model and parameter uncertainties, Advances in Water Resources, 36, 75-85, doi:10.1016/j.advwatres.2011.02.007.

27. Dai, Z., A. Wolfsberg, P. Reimus, H. Deng, E. Kwicklis, M. Ding, D. Ware, and **M. Ye** (2012), Identification of sorption processes and parameters for radionuclide transport in fractured rock, Journal of Hydrology, 414-415, January, 220-230, doi/10.1016/j.jhydrol.2011.10.035.

2011 (4 papers)

26. Lu, D. (*student*), **M. Ye**, and S.P. Neuman, Dependence of Bayesian model selection criteria and Fisher information matrix on sample size, *Mathematical Geosciences*, 43, 971-993, DOI 10.1007/s11004-011-9359-0.

25. Rios, J.F. (*student*), **M. Ye**, and L. Wang (2011), uWATER-PA: Ubiquitous WebGIS Analysis Toolkit for Extensive Resources – Pumping Assessment, *Ground Water*, 49, 776-780, DOI: 10.1111/j.1745-6584.2011.00872.x.

24. Gautam, M.R., J. Zhu, and **M. Ye**, Regularized artificial neural network training for biased soil hydraulic parameters, *Soil Science*, 176(11), 567-575, doi: 10.1097/SS.0b013e3182316c93.

23. Pan, F. (*student*), J. Zhu, **M. Ye**, Y.A. Pachepsky, Y.-S. Wu (2011), Sensitivity analysis of unsaturated flow and contaminant transport with correlated parameters, *Journal of Hydrology*, 397, 238-249, doi:10.1016/j.jhydrol.2010.11.045.

2010 (7 papers)

22. **Ye, M.**, K.F. Pohlmann, J.B. Chapman, G.M. Pohll, and D.M. Reeves (2010), A model-averaging method for assessing groundwater conceptual model uncertainty, *Ground Water*, doi:10.1111/j.1745-6584.2009.00633.x.

21. **Ye, M.**, D. Lu, S. P. Neuman, and P. D. Meyer (2010), Comment on "Inverse groundwater modeling for hydraulic conductivity estimation using Bayesian model averaging and variance window" by Frank T.-C. Tsai and Xiaobao Li, *Water Resources Research*, 46, W02801, doi:10.1029/2009WR008501.

20. **Ye, M.,** P.D. Meyer, Y.-F. Lin, and S.P. Neuman (2010), Quantification of model uncertainty in environmental modeling, *Stochastic Environmental Research and Risk Assessment*, DOI 10.1007/s00477-010-0377-0 (preface to a special issue).

19. Wu, Y-S, **M. Ye**, E.A. Sudicky, (2010), Fracture-flow-enhanced matrix diffusion in solute transport through fractured porous media, *Transport in Porous Media*, 81, 21-24, doi:10.1007/s11242-009-9383-4.

18. **Ye, M.** (2010), MMA: A computer code for multi-model analysis, *Ground Water*, 48(1), 9 – 12, doi: 10.1111/j.1745-6584.2009.00647.x (invited software review).

17. Deng, H. (*student*), Z. Dai, A. Wolfsberg, Z. Lu, **M. Ye**, and P. Reimus (2010), Upscaling of reactive mass transport in fractured rocks with multimodal reactive mineral facies, *Water Resources Research*, 46, W06501, doi:10.1029/2009WR008363.

16. Reeves, D.M., K.F. Pohlmann, G.M. Pohll, **M. Ye**, J.B. Chapman (2010), Incorporation of conceptual and parametric uncertainty into radionuclide flux estimates from a fractured granite rock mass, *Stochastic Environmental Research and Risk Assessment*, 24(6), 899-915, doi:10.1007/s00477-010-0385-0.

2009 (5 papers)

15. **Ye, M.**, Cooper, C.A., Chapman, J.B., Gillespie, D., and Zhang, Y. (2009), A Geologically Based Markov Chain Model for Simulating Tritium Transport With Uncertain Conditions in a Nuclear-Stimulated Natural Gas Reservoir. *SPE Reservoir Evaluation & Engineering*, 12(6), 974-984. SPE-114920-PA. doi: 10.2118/114920-PA.

14. Deng, H. (*student*), **M. Ye**, M. G. Schaap, and R. Khaleel (2009), Quantification of uncertainty in pedotransfer function-based parameter estimation for unsaturated flow modeling, *Water Resources Research*, 45, W04409, doi:10.1029/2008WR007477.

13. Pan, F. (*student*), **M. Ye**, J. Zhu, Y.S. Wu, B. Hu, Z. Yu (2009), Incorporating layer- and local-scale heterogeneities in numerical simulation of unsaturated flow and tracer transport, *Journal of Contaminant Hydrology*, 103 (3-4), 194-205, doi:10.1016/j.jconhyd.2008.10.012.

12. Pan, F. (*student*), **M. Ye**, J. Zhu, Y.S. Wu, B. Hu, Z. Yu (2009), Numerical evaluation of uncertainty in water retention parameters and effect on predictive uncertainty, *Vadose Zone Journal*, 8, 158-166, doi:10.2136/vzj2008.0092.

11. Huang, C. (*student*), B. Hu, X. Li, **M. Ye** (2009), Using data assimilation method to calibrate a heterogeneous conductivity field and improve solute transport prediction with an unknown contaminant source, *Stochastic Environmental Research and Risk Analysis*, 23(8), 1155-1167, doi 10.1007/s00477-008-0289-4.

2008 (3 papers)

10. **Ye, M.**, and R. Khaleel (2008), A Markov chain model for characterizing medium heterogeneity and sediment layering structure, *Water Resources Research*, 44, W09427, doi:10.1029/2008WR006924.

9. **Ye, M.**, K.F. Pohlmann, J.B. Chapman (2008), Expert elicitation of recharge model probabilities for the Death Valley regional flow system, *Journal of Hydrology*, 354, 102-115, doi:10.1016/j.jhydrol.2008.03.001.

8. **Ye, M.**, P.D. Meyer, and S.P. Neuman (2008), On model selection criteria in multimodel analysis, *Water Resources Research*, 44, W03428, doi:10.1029/2008WR006803.

2007 (2 papers)

7. **Ye, M.**, R. Khaleel, M. G. Schaap, and J. Zhu (2007), Simulation of field injection experiments in heterogeneous unsaturated media using cokriging and artificial neural network, *Water Resources Research*, 43, W07413, doi:10.1029/2006WR005030.

6. **Ye, M.**, F. Pan, Y.S. Wu, B. Hu, C. Shirley, Z. Yu (2007), Assessment of radionuclide transport uncertainty in the unsaturated zone at Yucca Mountain, *Advances in Water Resources*, 30, 118-134, doi:10.1016/j.advwatres.2006.03.005.

2005 (3 papers)

5. **Ye, M.**, S.P. Neuman, P.D. Meyer, and K.F. Pohlmann (2005), Sensitivity analysis and assessment of prior model probabilities in MLBMA with application to unsaturated fractured tuff, *Water Resources Research*, 41, W12429, doi:10.1029/2005WR004260.

4. **Ye, M.**, R. Khaleel, and T.-C. J. Yeh (2005), Stochastic analysis of moisture plume dynamics of a field injection experiment, *Water Resources Research*, 41, W03013, doi:10.1029/2004WR003735.

3. Yeh, T.-C. J., **M. Ye**, and R. Khaleel (2005), Estimation of effective unsaturated hydraulic conductivity tensor using spatial moments of observed moisture plume, *Water Resources Research*, 41, W03014, doi:10.1029/2004WR003736.

2004 (2 papers)

2. **Ye, M.**, S.P. Neuman, and P.D. Meyer (2004), Maximum likelihood Bayesian averaging of spatial variability models in unsaturated fractured tuff, *Water Resources Research*, 40, W05113, doi:10.1029/2003WR002557.

1. **Ye, M.**, S. P. Neuman, A. Guadagnini, and D. M. Tartakovsky (2004), Nonlocal and localized analyses of conditional mean transient flow in bounded, randomly heterogeneous porous media, *Water Resources Research*, 40, W05104, doi:10.1029/2003WR002099.

Book Chapters

1. **M. Ye** and M.C. Hill (2017), Global Sensitivity Analysis for Uncertain Parameters, Models, and Scenarios, Chapter 10 in the book: Sensitivity Analysis in Earth Observation Modeling, edited by G.P. Petropoulos and P.K. Srivastava, Elsevier, Amsterdam.

Peer-Reviewed Technical Reports

1. Pohlmann, K. and **M. Ye** (2012), *Numerical Simulation of Inter-basin Groundwater Flow into Northern Yucca Flat, Nevada National Security Site, Using the Death Valley Regional Flow System Model*, Nevada Site Office, National Nuclear Security Administration, U.S. Department of Energy, DOE/NV/26383-18.

2. **Ye, M.**, F. Pan, B. Hu, and J. Zhu (2007), Geostatistical and Stochastic Study of Flow and Tracer Transport in the Unsaturated Zone at Yucca Mountain, Nevada System of Higher Education, TR-07-003 (available at http://hrc.nevada.edu/QA/Report/TR-07-003.pdf).

3. Meyer, P.D., **M. Ye**, M.L. Rockhold, S.P. Neuman, K.J. Cantrell (2007), *Combined Estimation of Hydrogeologic Conceptual Model, Parameter, and Scenario Uncertainty*, NUREG/CR-6940, PNNL-16396, U.S. Nuclear Regulatory

Commission, Office of Nuclear Regulatory Research (available at http://www.nrc.gov/reading-rm/doc-collections/nuregs/contract/cr6940/).

4. Cooper, C., **M. Ye**, J. Chapman (2007), *Tritium Transport at the Rulison Site, A Nuclear-stimulated Low-permeability Natural Gas Reservoir*, Legacy Management Office, U.S. Department of Energy (available at http://www.lm.doe.gov/documents/sites/co/rulison/45224_2007_Rulison_Tritium Transport_OLM-1.pdf).

5. K. Pohlmann, **M. Ye**, D. Reeves, M. Zavarin, D. Decker, J. Chapman (2007), *Groundwater Flow and Radionuclide Transport through the Climax Stock*, Nevada Test Site, Nevada Site Office, National Nuclear Security Administration, U.S. Department of Energy (available at http://www.osti.gov/bridge/servlets/purl/922626-qd85uE/922626.PDF).

6. Cooper, C., **M. Ye**, J. Chapman, and C. Shirley (2005), *Radionuclide Migration at the Rio Blanco Site, A Nuclear-simulated Low-permeability Gas Reservoir*, DRI Publication 4520, Las Vegas, NV.

7. P.D. Meyer, **M. Ye**, and S.P. Neuman (2005), *Incorporating Scenario Uncertainty in Hydrogeologic Modeling*, PNNL-15427, Pacific Northwest National Laboratory, Richland, WA.

8. P.D. Meyer, **M. Ye**, S.P. Neuman, K.J. Cantrell (2004), *Combined Estimation of Hydrogeologic Conceptual Model and Parameter Uncertainty*, NUREG/CR-6843, PNNL-14534, U.S. Nuclear Regulatory Commission, Office of Nuclear Regulatory Research, Washington, DC (available at http://www.nrc.gov/reading-rm/doc-collections/nuregs/contract/cr6843/).

Conference Proceedings

1. Greene, J.A., R.M. Neupauer, **M. Ye**, J.R. Kasprzyk, D.C. Mays, G.P. Curtis (2017), Engineered injection and extraction for remediation of uranium-contaminated groundwater, 111-118, Proceedings of the 16th Annual World Environmental and Water Resources Congress, Edited by C.S. Pathak and D. Reinhart, American Society of Civil Engineers, Environmental & Water Resources Institution, Sacramento, CA.

2. Pacheco, R., **Ye, M.**, Wang, X. (2017), Numerical simulation of karst groundwater flow at laboratory scale. In U.S. Geological Survey Karst Interest Group Proceedings, San Antonio, Texas, May 16 – 18, 2017, Edited by E.L. Kuniansky and L.E. Spangler. U.S. Geological Survey Scientific Investigations Report 2017–5023, 245 p., http://doi.org/10.3133/sir20175023

3. Liu, X., A.B. Chan-Hilton, **M. Ye** (2016), Exploring Impacts of Interpolation Methods on Groundwater Monitoring Optimization, 347-356, Proceedings of the 16th Annual World Environmental and Water Resources Congress, Edited by C.S. Pathak and D. Reinhart, American Society of Civil Engineers, Environmental & Water Resources Institution, West Palm Beach, FL.

4. Tao, X., **M. Ye**, X. Wang, D. Wang, R. Pacheco Castro, J. Zhao (2015), Experimental and Numerical Investigation of Sinkhole Development and

Collapse, 501-506, Proceedings of the 14th Multidisciplinary Conference on Sinkholes and the Engineering and Environmental Impacts of Karst, edited by D.H. Doctor, L. Lands, and J.B. Stephenson, National Cave and Karst Research Institute, Carlsbad, New Mexico.

5. Zeng, X., **M. Ye**, and J. Wu (2015), Evaluating Two Sparse Grid Surrogates for Bayesian Uncertainty Quantification. World Environmental and Water Resources Congress 2015: pp. 536-545, doi: 10.1061/9780784479162.049

6. Sayemuzzaman, M., **M. Ye**, Y. Zhu, R. Hicks, and L. Shi (2015), Simulation of Nitrogen Transport in Surficial Aquifer and Estimation of Nitrogen Load from Septic Systems in the Indian River Lagoon Area, Florida, Annual Conference of the World Environmental & Water Resources Congress, May 17-21, Austin, Texas.

7. Meyer, P.D., **M. Ye**, T. Nicholson, S. Neuman, and M. Rockhold (2014), "Incorporating Scenario Uncertainty Within a Hydrogeologic Uncertainty Assessment Methodology, " in Proceedings of the International Workshop on Model Uncertainty: Conceptual and Practical Issues in the Context of Risk-Informed Decision Making, edited by Ali Mosleh and Jeffery Wood, International Workshop Series on Advanced Topics in Reliability and Risk Analysis, Center for Risk and Reliability, University of Maryland, College Park, MD, U.S.A., pp. 99 - 119. (ISSN: 1084-5658)

8. Zhang G., D. Lu, **M. Ye**, M. Gunzburger, and C. Webster (2013), An efficient surrogate modeling approach in Bayesian uncertainty analysis, 11th International Conference of Numerical Analysis and Applied Mathematics, September 21-27, Rhodes, Greece.

9. Shi, X., G. Tang, **M. Ye**, W.-M. Wu, J. Parker, D. Watson, S.C. Brooks, F. Zhang, and J. Wu (2012), Uncertainty quantification of biogeochemical models for ethanol-stimulated uranium (VI) reduction in subsurface sediments, XIX International Conference of Computational Methods in Water Resources, June 17 -21, 2012, Urbana-Champaign, IL.

10. **Ye, M.**, D. Lu, S.P. Neuman, and L. Xue (2011), Multimodel Bayesian analysis of data-worth applied to unsaturated fractured tuffs, Proc. Intern. Conf. Groundwater: Our source of Security in an Uncertain Future, Geol. Soc. South Africa and Intern. Assoc. Hydrogeologists, Pretoria, South Africa, Sept. 19 - 21, 2011.

11. **Ye, M.**, L. Wang, and K.F. Pohlmann (2011), Evaluation of plausibility of alternative groundwater models using different kinds of observations. In R.M. Maxwell, E.P. Poeter, M.C. Hill, and C. Zheng (Ed.), *MODFLOW and More 2011: Integrated Hydrologic Modeling*. Integrated Groundwater Modeling Center, Colorado School of Mines, 432 – 436.

12. Wang, L., **M. Ye**, J.F. Rios, and P.Z. Lee (2011), Use of an ArcGIS based software for estimation of nitrate load from septic systems to St. Johns River in Jacksonville, FL. In R.M. Maxwell, E.P. Poeter, M.C. Hill, and C. Zheng (Ed.),

MODFLOW and More 2011: Integrated Hydrologic Modeling. Integrated Groundwater Modeling Center, Colorado School of Mines, 672 – 676.

13. Lu, D., M.C. Hill, and **M. Ye** (2011), Analysis of regression and Bayesian predictive uncertainty measure. In R.M. Maxwell, E.P. Poeter, M.C. Hill, and C. Zheng (Ed.), *MODFLOW and More 2011: Integrated Hydrologic Modeling*. Integrated Groundwater Modeling Center, Colorado School of Mines, 454 – 458.

14. Niedoroda, A.W., H. Dai, **M. Ye**, B. Saha, S. Kish, and J.F. Donoghue (2011), Barrier Island Responses to Potential Future Rates of Sea-Level Rise, Coastal Sediment'11, May 2-6, 2011, Miami, Florida.

15. Neuman, S.P., L. Xue, **M. Ye**, and D. Lu (2011), Multimodel Assessment of the Worth of Data Under Uncertainty, Waste Management Symposium, February 28 – March 3, 2011, Phoenix, Arizona.

16. Chapman, J.B., C.A. Cooper, **M. Ye**, R. Hodges, R. Hutton, J. Craig, and T. Pauling (2008), Balancing subsurface restrictions and resource access under conditions of changing land use at the Rulison underground nuclear test site, Piceance Basin, Colorado, USA, Waste Management Symposia 2009, March 1 – 5, Phoenix, Arizona.

17. Meyer P.D., **M. Ye**, S.P. Neuman, and M.L. Rockhold (2008), Application of Maximum Likelihood Bayesian Model Averaging to Groundwater Flow and Transport at the Hanford Site 300 Area, In Calibration and Reliability in Groundwater Modelling: Credibility of Modelling: Proceedings of ModelCARE 2007 Conference, pp. 64-69. International Association of Hydrological Sciences, IAHS Publ. 320, Oxfordshire, United Kingdom.

18. **Ye, M.**, K.F. Pohlmann, J.B. Chapman, G.M. Pohll, and D.M. Reeves (2008), Assessing recharge and hydrostratigraphic model uncertainty in the Climax Mine area of the Nevada Test Site, MODFLOW 2008 and More, May 19 – 21, Golden, Colorado.

19. Pan, F. (*student*), J. Zhu, **M. Ye**, Y.-S. Wu, and Z. Yu (2008), Sensitivity analysis of radionuclide transport uncertainty at Yucca Mountain, International High-Level Radioactive Waster Management Conference, September 7 – 11, Las Vegas, NV.

20. Pohlmann, K.F., **M. Ye**, G. Pohll, J.B. Chapman (2007), Use of numerical groundwater modeling to evaluate uncertainty in conceptual models of recharge and hydrostratigraphy, 2007 IEEE International Symposium on Technology and Society: Risk, Vulnerability, Uncertainty, Technology, and Society, Book Series: IEEE International Symposium on Technology and Society, 165-169.

21. Wu, Y.-S., **M. Ye**, and E.A. Sudicky, (2007), Fracture-flow-enhanced solute diffusion into fractured rock, 33rd Stanford Geothermal Workshop, January 28-30, Stanford, California.

22. Pan, F. (student), **M. Ye**, Y.S. Wu, B. Hu, C. Shirley, Z. Yu (2005), Uncertainty assessment of unsaturated flow and radionuclide transport at Yucca mountain,

International High-Level Radioactive Waste Management Conference, April 30 – May 4, Las Vegas, NV.

23. **Ye, M.,** K. Pohlmann, J. Chapman, and D. Shafer (2005), On evaluation of conceptual models: a Priori and a Posteriori, International High-Level Radioactive Waste Management Conference, April 30 – May 4, Las Vegas, NV.

24. Zhu, J., K.F. Pohlmann, **M. Ye**, D. Shafer, and R.W.H. Carroll (2005), Groundwater pathways from regional upgradient of potential Yucca Mountain repository, International High-Level Radioactive Waste Management Conference, April 30 – May 4, Las Vegas, NV.

25. **Ye, M.**, S. P. Neuman, A. Guadagnini, and D. M. Tartakovsky (2002), Nonlocal and localized analyses of conditional mean transient flow in bounded, randomly nonuniform domains. In *Computational Methods in Water Resources XIV*, edited by S. M. Hassanizadeh, R. J. Schotting, W. G. Gray, and G. F. Pinder, Elsevier, Amsterdam, The Netherlands, pp. 1155 – 1162.

Conference Abstracts

1. **Ye, M.**, X. Shi, G.P. Curtis, J. Wu (2017), Bayesian Data-Worth Analysis to Reduce Uncertainty of Uranium (VI) Surface Complexation Model, Annual Conference of the World Environmental & Water Resources Congress, May 21-25, Sacramento, CA.

2. Greene, J.A., R.M. Neupauer, **M. Ye**, J.R. Kasprzyk, D.C. Mays, and G.P. Curtis (2017), Engineered Injection and Extraction for Remediation of Uranium-Contaminated Groundwater, Annual Conference of the World Environmental & Water Resources Congress, May 21-25, Sacramento, CA.

3. **Ye, M.**, A.S. Elshall, G. Tang, and S. Samani (2016), Making Steppingstones out of Stumbling Blocks: A New Bayesian Model Evidence Estimator with Application to Groundwater Model Selection, AGU meeting, December 12 – 16, San Francisco, CA.

4. Zeng, X., **M. Ye**, J. Wu, D. Wang, and J. Liu (2016), Improving and Evaluating Nested Sampling Algorithm for Marginal Likelihood Estimation, AGU meeting, December 12 – 16, San Francisco, CA.

5. Xu, T., A.J. Valocchi, **M. Ye**, and F. Liang (2016), A Fast Surrogate-facilitated Data-driven Bayesian Approach to Uncertainty Quantification of a Regional Groundwater Flow Model with Structural Error, AGU meeting, December 12 – 16, San Francisco, CA.

6. Dai, H., X. Chen, **M. Ye**, X. Song, J.M. Zachara (2016), A Bayesian Network Based Global Sensitivity Analysis Method for Identifying Dominant Processes in a Multi-physics Model, AGU meeting, December 12 – 16, San Francisco, CA.

7. Pacheco-Castro, R.B., **M. Ye**, X. Tao, and J. Zhao (2016), Karst Flow Modeling and Model Validation at Laboratory Scale, AGU meeting, December 12 – 16, San Francisco, CA.

8. Mo, S., D. Lu, X. Shi, G. Zhang, **M. Ye**, J. Wu, and J. Wu (2016), An efficient adaptive sampling strategy for global surrogate modeling with applications in multiphase flow simulation, AGU meeting, December 12 – 16, San Francisco, CA.

9. Elshall, A.S., **M. Ye**, G.-Y. Niu, and G. Barron-Gafford (2016), Numerical Demons in Monte Carlo Estimation of Bayesian Model Evidence with Application to Soil Respiration Models, AGU meeting, December 12 – 16, San Francisco, CA.

10. **Ye, M.**, H. Dai, A.P. Anthony, L. Shi, J. Yang (2015), Global Sensitivity Analysis for Process Identification under Model Uncertainty, AGU meeting, December 14 – 18, San Francisco, CA.

11. Elshall, A.S., **M. Ye**, G.-Y. Niu, and G. Barron-Gafford (2015), Bayesian multimodel inference of soil microbial respiration models: Theory, application and future prospective, AGU meeting, December 14 – 18, San Francisco, CA.

12. Song, X., X. Chen, **M. Ye**, Z. Dai, and G.E. Hammond (2015), Integrating Ensemble Data Assimilation and Indicator Geostatistics to Delineate Hydrofacies Spatial Distribution, AGU meeting, December 14 – 18, San Francisco, CA.

13. Samani, S., **M. Ye**, A.S. Elshall, G. Tang, X. Niu, and A.A. Moghaddam (2015), Exploring Model Complexity for Column Experiments Using Model Selection Criteria, AGU meeting, December 14 – 18, San Francisco, CA.

14. Chen, Z., L. Shi, and **M. Ye** (2015), Global Sensitivity Analysis for Multiple Scenarios and Models of Nitrogen Processes, AGU meeting, December 14 – 18, San Francisco, CA.

15. Zhang, H., F. Zhang, **M. Ye**, and T. Che (2015), Air Temperature Estimation over the Third Pole Using MODIS LST, AGU meeting, December 14 – 18, San Francisco, CA.

16. Sayemuzzaman, M. and **M. Ye** (2015), Multivariate Statistical Analysis of Water Quality data in Indian River Lagoon, Florida, AGU meeting, December 14 – 18, San Francisco, CA.

17. Pacheco-Castro, R.B., X. Tao, **M. Ye**, and J. Zhao (2015), Model validation for karst flow using sandbox experiments, AGU meeting, December 14 – 18, San Francisco, CA.

18. Zeng, X., **M. Ye**, and J. Wu (2015), Evaluating two sparse grid surrogates for Bayesian uncertainty quantification, Annual Coneference of the World Environmental & Water Resources Congress, May 17-21, Austin, Texas.

19. Sayemuzzaman, M., **M. Ye**, Y. Zhu, R. Hicks, and L. Shi (2015), Simulation of Nitrogen Transport in Surficial Aquifer and Estimation of Nitrogen Load from Septic Systems in the Indian River Lagoon Area, Florida, Annual Conference of the World Environmental & Water Resources Congress, May 17-21, Austin, Texas.

20. **Ye, M.**, P. Liu, P. Beerli, D. Lu, and M.C. Hill (2014), Estimating model probabilities using thermodynamic Markov chain Monte Carlo methods, AGU meeting, December 15 – 19, San Francisco, CA.

21. Elshall, A., **M. Ye,** G.-Y. Niu, and G. Barron-Gafford (2014), Quantification of Model Uncertainty in Modeling Mechanisms of Soil Microbial Respiration Pulses to Simulate Birch Effect, AGU meeting, December 15 – 19, San Francisco, CA.

22. Castro, R.P., J.P. Avila, **M. Ye,** and A.C. Sansores (2014), Multivariate Statistical Analysis: a tool for groundwater quality assessment in the hidrogeologic region of the Ring of Cenotes, Yucatan, Mexico, AGU meeting, December 15 – 19, San Francisco, CA.

23. Hill, M.C., **M. Ye**, L. Foglia, and D. Lu (2014), Testing predictive skill of groundwater flow and transport simulations, AGU meeting, December 15 – 19, San Francisco, CA.

24. Tao, X., **M. Ye**, D. Wang, X. Wang, J. Zhao, and R.P. Castro (2014), Experimental investigation of catastrophic cover-collapse sinkhole formation, AGU meeting, December 15 – 19, San Francisco, CA.

25. **Ye, M.**, G. Zhang, D. Lu, and M. Gunzburger (2014), Using sparse grid methods for Bayesian uncertainty analysis in groundwater modeling, World Environmental & Water Resources Congress 2014, June 1 – 5, Portland, OR.

26. **Ye, M.**, L. Wang, P.Z. Lee, R.W. Hicks (2014), Uncertainty analysis for estimating nitrate loads from septic tanks to surface water bodies, World Environmental & Water Resources Congress 2014, June 1 – 5, Portland, OR.

27. **Ye, M** (2014), A Bayesian Framework for Uncertainty Quantification with Application to Groundwater Reactive Transport Modeling, SIAM Conference on Uncertainty Quantification, March 31 – April 3, Savannah, GA.

28. **Ye, M.**, X. Shi, G.P. Curtis, M. Kohler, and J. Wu (2013), How to make data a blessing to parametric uncertainty quantification and reduction? AGU meeting, December 9 – 13, San Francisco, CA.

29. Curtis, G.P., **M. Ye**, D. Lu, Matthias Kohler, and R. Kannappan (2013), Evaluation of Uranium Transport Prediction Uncertainty in Field Experiments, AGU meeting, December 9 – 13, San Francisco, CA.

30. Dai, H. and **M. Ye** (2013), Combined Estimation of Hydrogeologic Scenario, Model, and Parameter Uncertainty and Sensitivity with Application to Groundwater Reactive Transport Modeling, AGU meeting, December 9 – 13, San Francisco, CA.

31. Liu, P., **M. Ye**, D. Lu, Y. Tao, and M. Shang (2013), Effects of spatial correlation of model errors on calculation of model averaging weights, AGU meeting, December 9 – 13, San Francisco, CA

32. Gui, D., M. Ye, F. Zhang, and H. Zhang (2013), Uncertainty analysis for snow cover and runoff modeling in a high mountain catchment with scare data, AGU meeting, December 9 – 13, San Francisco, CA.

33. Hill, M.C., D. Kavetski, M.P. Clark, **M. Ye**, M. Arabi, D. Lu, L. Foglia, and S. Mehl (2013), What can decision makers achieve from computer simulations of environmental systems? AGU meeting, December 9 – 13, San Francisco, CA.

34. **Ye, M.** and R.W. Hicks (2013), ArcNLET: An ArcGIS-based software for estimation of nitrogen load from septic systems to surface water bodies, 8th IAHS International Groundwater Quality Conference (GQ13), Gainesville, FL.

35. Sun, H., **M. Ye**, E. Roeder, R.W. Hicks (2013), Characterization of spatial and seasonal variation of groundwater nitrogen in septic areas, 8th IAHS International Groundwater Quality Conference (GQ13), Gainesville, FL.

36. Potratz, N., **M. Ye**, and R.W. Hicks (2013), Clustering analysis of groundwater quality data in septic areas, 8th IAHS International Groundwater Quality Conference (GQ13), Gainesville, FL.

37. Zhang, G., D. Lu, **M. Ye**, M. Gunzburger, and C. Webster (2012), An Efficient Sparse-Grid-Based Bayesian Method for Uncertainty Analysis in Groundwater Reactive Transport Modeling, AGU meeting, December 3 – 7, San Francisco, CA.

38. **Ye, M.**, D. Lu, and S.P. Neuman (2012), Dependence of Bayesian model selection criteria and Fisher information matrix on sample size, Annual meeting of the Geological Society of America, November 3 – 7, 2012, Charlotte, NC.

39. Lu, D., **Ye, M.**, M.C. Hill, and G.P. Curtis (2012), Integration of Markov Chain Monte Carlo simulation into UCODE for Bayesian uncertainty analysis, Annual meeting of the Geological Society of America, November 3 – 7, 2012, Charlotte, NC.

40. Curtis, G.P., Lu, D., **Ye, M.**, and M. Kohler (2012), Calibrations and predictions of uranium transport in small scale field experiments, Annual meeting of the Geological Society of America, November 3 – 7, 2012, Charlotte, NC.

41. Dai, H. (student), M. Convertino. I. Linkov, **M. Ye**, and Z. Collier (2012), A Bayesian network approach for ecogeomorphological modeling facing uncertainty, Annual meeting of the Geological Society of America, November 3 – 7, 2012, Charlotte, NC.

42. Shi, X., G. Tang, **M. Ye**, W.-M. Wu, J. Parker, D. Watson, S.C. Brooks, F. Zhang, and J. Wu (2012), Uncertainty quantification of biogeochemical models for ethanol-stimulated uranium (VI) reduction in subsurface sediments, XIX International Conference of Computational Methods in Water Resources, June 17 -21, 2012, Urbana-Champaign, IL.

43. **Ye, M.**, D. Lu, S.P. Neuman, and L. Xue (2012), Multimodel Bayesian Analysis of Data-Worth: Theory and Applications, XIX International Conference of Computational Methods in Water Resources, June 17 -21, 2012, Urbana-Champaign, IL.

44. Curtis, G.P., **M. Ye**, M. Kohler, M. Hay, P.D. Meyer, S.B. Yabusaky, and J. Davis (2011), Evaluation of prediction uncertainty of uranium transport in tracer test experiments, AGU Fall Meeting, December 5-9, San Francisco, CA.

45. Dai, H. (student), A.W. Niedoroda, **M. Ye**, B. Saha, J.F. Donoghue, and S. Kish (2011), Modeling coastal zone reponse to sea-level rise using MoCCS: A model of complex coastal system, AGU Fall Meeting, December 5-9, San Francisco, CA.

46. Hill, M.C., D. Kavetski, M. Clark, **M. Ye**, M. Arabi, D. Lu, L. Foglia, and S. Mehl (2011), The "how" of environmental modeling: toward enhanced transparency and refutability, AGU Fall Meeting, December 5-9, San Francisco, CA.

47. Meyer, P.D., S.B. Yabusaky, G.P. Curtis, and **M. Ye** (2011), Sensitivity analysis and parameter estimation for a reactive transport model of uranium bioremesiation, AGU Fall Meeting, December 5-9, San Francisco, CA.

48. Shi, X., **M. Ye**, G.P. Curtis, D. Lu, P.D. Meyer, S.B. Yabusaky, J. Wu (2011), Assessment of parametric uncertainty in groundwater reactive transport modeling using Markov chain Monte Carlo techniques, AGU Fall Meeting, December 5-9, San Francisco, CA.

49. Xue, L., S.P. Neuman, **M. Ye**, and D. Lu (2011), Multimodel Bayesian optimization of data collection schemes, AGU Fall Meeting, December 5-9, San Francisco, CA.

50. **Ye, M.**, D. Lu. S.P. Neuman, and P.D. Meyer (2011), Effect of data correlation on model weights, AGU Fall Meeting, December 5-9, San Francisco, CA.

51. Zhang, G. (student), M. Ye, D. Lu, and M. Gunzburger (2011), Uncertainty analysis based on sparse grid interpolation and quasi-Monte Carlo sampling with application in groundwater modeling, AGU Fall Meeting, December 5-9, San Francisco, CA.

52. Lu, D. (student), **M. Ye**, G.P. Curtis, P.D. Meyer, and S.B. Yabusaky (2011), Effect of temporal residual correlation in model weights, AGU Fall Meeting, December 5-9, San Francisco, CA.

53. **Ye**, **M.**, X. Shi, and G.P. Curtis (2011), Identifying Multimodal, Non-Gaussian Parameter Distributions in Groundwater Reactive Transport Modeling, Cross-Pacific Conference on Environmental and Water Resources, September 3 – 5, Orlando, FL.

54. **Ye, M.**, L. Wang, and K. Pohlmann (2011), Impacts of Calibration Data on Estimation of Model Averaging Weights, MODFLOW and More 2011Conference, June 5 – 8, 2011, Golden, CO.

55. Lu, D. (*student*), M.C. Hill, and **M. Ye** (2011), Analysis of regression and Bayesian predictive uncertainty measure, MODFLOW and More 2011Conference, June 5 – 8, 2011, Golden, CO.

56. Wang, L., J.F. Rios, **M. Ye**, and P.Z. Lee (2011), Use of a Arc-GIS Based Software for Estimation of Nitrate Loads from Septic Tanks to St. Johns River in Jacksonville, FL., MODFLOW and More 2011 Conference, June 5 – 8, 2011, Golden, CO.

57. Rios J.F., **M. Ye**, L. Wang, and P.Z. Lee (2011), Development of a Arc-GIS Based Software for Estimation of Nitrate Loads from Septic Tanks to Surface Water Bodies, MODFLOW and More 2011 Conference June 5 – 8, 2011, Golden, CO.

58. **Ye**, **M.**, D. Lu, S.P. Neuman, and L. Xue, (2011), Multimodel Assessment of the Worth of Data Under Uncertainty, International Conference on Groundwater: Our Source of Security in an Uncertain Future, September 19 – 21, 2011, Pretoria, South Africa.

59. Niedoroda, A.W., H. Dai, M. Ye, B. Saha, S. Kish, and J.F. Donoghue (2011), Barrier Island Responses to Potential Future Rates of Sea-Level Rise, Coastal Sediment'11, May 2-6, 2011, Miami, Florida.

60. **Ye, M.**, Arc-NLET: Nitrate Load Estimation Toolkit, SHRUG annual meeting, March 29, 2011, Tallahassee, Florida.

61. Neuman, S.P., L. Xue, **M. Ye**, and D. Lu (2011), Multimodel Assessment of the Worth of Data Under Uncertainty, Waste Management Symposium, February 28 – March 3, 2011, Phoenix, Arizona.

62. **Ye, M.**, D. Lu, G.P. Curtis, P.D. Meyer, and S. Yabusaki (2010), Effect of Temporal Residual Correlation on Estimation of Model Averaging Weights, AGU Fall Meeting, December 13-17, San Francisco, California.

63. Lu, D. (student), M.C. Hill, and M. Ye (2010), A Controlled Experiment for Investigating Uncertainty Measures in Groundwater Flow Modeling, AGU Fall Meeting, December 13-17, San Francisco, California.

64. Miller, G.L. (student), D. Lu, **M. Ye**, G.P. Curtis, B.S. Mendes, and D. Draper (2010), Assessment of Parametric Uncertainty using Markov Chain Monte Carlo Methods for Surface Complexation Models in Groundwater Reactive Transport Modeling, AGU Fall Meeting, December 13-17, San Francisco, California.

65. Dai, H. (student), **M. Ye**, A.W. Niedoroda, S. Kish, J.F. Donoghue, B. Saha (2010), Uncertainty Assessment for Numerical Modeling of Dune and Backshore Evolution Under Sea-Level Rise Scenarios, AGU Fall Meeting, December 13-17, San Francisco, California.

66. Niedoroda, A.W., H. Dai, **M. Ye**, B. Saha, J.F. Donoghue, S. Kish (2010), Morphodynamic Modeling of Coastal Barrier Response to Sea-Level Rise Scenarios, AGU Fall Meeting, December 13-17, San Francisco, California.

67. Neuman, S.P., **M. Ye**, L. Xue, D. Lu (2010), Multimodel Bayesian Analysis of the Worth of Data, AGU Fall Meeting, December 13-17, San Francisco, California.

68. Curtis, G.P., **M. Ye**, M. Kohler, P.M. Fox, and J.A. Davis (2010), Evaluating Prediction Uncertainty of Uranium Transport in Small Scale Tracer Tests, AGU Fall Meeting, December 13-17, San Francisco, California.

69. Zhang, F., J. Parker, **M. Ye**, G. Tang, W. Wu, T. Mehlhorn, T.M. Gihring, C. Schadt, D.B. Watson, S.C. Brooks (2010), Simulation of In-Situ Uranium

Bioremediation with Slow-Release Organic Amendment Injection, AGU Fall Meeting, December 13-17, San Francisco, California.

70. Rios F., **M. Ye**, P. Lee, R. Fernandes, T. Zhao, and A. Chan-Hilton, Estimation of Hydrologic Environmental Impacts of Nitrate Contamination from Energy Biomass Resources Development, FESC Summit 2010, September 28-29, Orlando, Florida.

71. **Ye, M.**, D. Lu, G. Miller, G.P. Curtis, P.D. Meyer, and S.B. Yabusaki (2010), Assessment of predictive uncertainty in coupled groundwater reactive transport modeling, Goldschmidt 2010 Conference, June 13-18, Knoxville, Tennessee.

72. Rios, F. (student), **M. Ye**, P. Lee, R. Fernandes, T. Zhao (2010), Developing an ArcGIS Extension for Estimating Nitrate Fate and Transport, ESRI Southeast Regional User Group Conference, April 26-28, Charlotte, NC.

73. **Ye, M.** (2010), Groundwater reactive transport modeling under uncertainty, Joint Mathematics Meeting, January 13 – 16, 2010, San Francisco, California.

74. **Ye, M.** and D. Lu (2009), On Model Selection Criteria and Model Complexity, 2009 AGU annual meeting, San Francisco, California.

75. Neuman, S.P. and **M. Ye** (2009), Assessing and optimizing the worth of information under model, parameter and data uncertainties, 2009 AGU annual meeting, San Francisco, California.

76. Niedoroda, A.W., **M. Ye**, B. Saha, J.F. Donoghue, C.W. Reed (2009), Simulations of Sea Level Rise Effects on Complex Coastal Systems, 2009 AGU annual meeting, San Francisco, California.

77. Deng (Student), H., Z. Dai, A.V. Wolfsberg, **M. Ye**, Z. Lu (2009), Upscaling Retardation Factor of Porous Media with Multimodal Sorption Coefficient and Conductivity, 2009 AGU annual meeting, San Francisco, California.

78. Dai, Z., H. Deng, A.V. Wolfsberg, Z. Lu, **M. Ye**, P. Reimus (2009), Upscaling of Reactive Mass Transport in Fractured Rocks with Multimodal Reactive Mineral Facies, 2009 AGU annual meeting, San Francisco, California.

79. Donoghue, J.F., J.L. Coor, Y. Wang, O. Das, S. Kish, J. Elsner, X.B. Hu, A.W. Niedoroda, **M. Ye** (2009), Coastal Lake Record of Holocene Paleo-Storms from Northwest Florida, 2009 AGU annual meeting, San Francisco, California.

80. Coor, J.L., J.F. Donoghue, Y. Wang, O. Das, S. Kish, J. Elsner, X.B. Hu, A.W. Niedoroda, **M. Ye** (2009), Development of a Long-Term Storm History for the Northwest Florida Coast Using Multiple Proxies, 2009 AGU annual meeting, San Francisco, California.

81. Das, O., Y. Wang, J.F. Donoghue, J.L. Coor, S. Kish, J. Elsner, X.B. Hu, A.W. Niedoroda, **M. Ye**, Y. Xu (2009), Reconstruction of paleostorm history using geochemical proxies in sediment cores from Eastern Lake, Florida, 2009 AGU annual meeting, San Francisco, California.

82. **Ye, M.**, G.P. Curtis, P.D. Meyer, and S.B. Yabusaki (2009), Multimodel analysis and averaging using UCODE_2005 and MMA with an application of assessing

geochemical model uncertainty at the Naturita Site, 2009 ISCEMEM Annual meeting, October 13 – 15, Rockville, Maryland.

83. **Ye, M.** (2009), Groundwater model calibration and uncertainty quantification, 2009 SIAM Annual Meeting, July 6 – 10, Denver, Colorado.

84. Curtis, G.P, **M. Ye**, P.D. Meyer, S.B. Yabusaki, and D.R. Rodriguez (2009), Multiscale assessment of prediction uncertainty in multicomponent reactive transport models, DOE-ERSP 4th Annual PI Meeting, April 20 – 23, Lansdowne, Virginia.

85. Donoghue J.F., J.B. Elsner, B.X Hu, A.W. Niedoroda, Y. Wang, **M. Ye**, J. Coor, O. Das, S. Lewers, K. Scheitlin (2009), Effects of near-term sea-level rise on coastal infrastructure, SERDP-ESTCP Partners in Environmental Technology Technical Symposium & Workshop, December 1 – 3, 2009.

86. **Ye, M.** and R. Khaleel (2008), An evaluation of three methods for characterizing media heterogeneity, Annual Meeting of the American Geophysical Union, December 10 – 14, San Francisco, California.

87. Lu, D. (*student*) and **M. Ye** (2008), Effect of data clustering on Bayesian model probability, Annual Meeting of the American Geophysical Union, December 10 – 14, San Francisco, California.

88. Pan, F. (*student*), J. Zhu, **M. Ye,** and Z. Yu (2008), An estimation of correlation structure of hydraulic parameters using bayesian inference approach, Annual Meeting of the American Geophysical Union, December 10 – 14, San Francisco, California.

89. **Ye, M.** and D. Lu (*student*) (2008), Use of pattern recognition to evaluate alternative recharge models, 2008 Groundwater Summit, March 30 – April 3, Memphis, Tennessee.

90. **Ye, M.**, and D. Lu (*student*) (2008), Comparison of Laplace approximation and Monte Carlo methods for Bayesian model selection and multimodel averaging, Computational Methods in Water Resources, XVII International Conferences, July 6 – 10, San Francisco, California.

91. Pan, F. (*student*), J. Zhu, **M. Ye**, and Z. Yu, Effect of water retention parameter uncertainty on unsaturated flow in heterogeneous fractured rocks, Nevada Water Resources Association Annual Meeting, March 4 – 6, Mesquite, Nevada.

92. Pan, F. (*student*), J. Zhu, **M. Ye**, Z. Yu, Sensitivity analysis of contaminant transport uncertainty in unsaturated zone, Annual Meeting of the Geological Society of America, October 5-9, 2008, Houston, TX.

93. **Ye, M.**, K. Pohlmann, J. Chapman, and G. Pohll (2008), Assessing recharge and geological model uncertainty at the Climax Mine area of the Nevada Test Site, MODFLOW 2008 and More, May 19 – 21, Golden, Colorado.

94. **Ye, M.** and R. Khaleel (2008), A Monte Carlo Markov chain model for characterizing medium heterogeneity and sediment layering structure, Annual Meeting of the Geological Society of America, October 5-9, 2008, Houston, TX.

95.   Neuman, S.P., **M. Ye**, and P.D. Meyer (2008), On model selection criteria in multimodel analysis, 2008 Groundwater Summit, March 30 – April 3, Memphis, Tennessee.

96.   Meyer, P.D., T.J. Nicholson, **M. Ye**, S.P. Neuman, and M.L. Rockhold, (2008), Incorporating scenario uncertainty within a hydrogeologic uncertainty assessment methodology, 2008 Groundwater Summit, March 30 – April 3, Memphis, Tennessee.

97.   Hu, B.X., C. Huang, X. Li, and **M. Ye** (2008), Using data assimilation method to calibrate a heterogeneous conductivity field and improve solute transport prediction with an unknown contamination, Annual Meeting of the Geological Society of America, October 5-9, 2008, Houston, TX.

98.   Hu, B.X., C. Huang, X. Li, and **M. Ye** (2008), Using ensemble Kalman filter to simulate groundwater flow and solute transport in heterogeneous media with unknown contamination sources, Computational Methods in Water Resources, XVII International Conferences, July 6 – 10, San Francisco, California.

99.   **Ye, M.** and R. Khaleel (2007), A Markov chain model for characterizing vadose zone soil heterogeneity and layering structure, *AGU Fall Meeting*, Dec. 10 – 14, 2007, San Francisco, California.

100.   Meyer, P.D., **M. Ye**, and S.P. Neuman (2007), On model selection criteria in multimodel analysis, *AGU Fall Meeting*, Dec. 10 – 14, 2007, San Francisco, California.

101.   Deng, H. (*student*), **M. Ye**, M.G. Schaap, and R. Khaleel (2007), Uncertainty assessment of soil hydraulic parameter estimated from cokriging and artificial neural network, *AGU Fall Meeting*, Dec. 10 – 14, 2007, San Francisco, California.

102.   Wang, Z. and **M. Ye** (2007), Strategy of water resources planning under risk, *AGU Fall Meeting*, Dec. 10 – 14, 2007, San Francisco, California.

103.   Pan, F., J. Zhu, **M. Ye**, and Z. Yu (2007), Sensitivity analysis of hydraulic parameters on radionuclide transport uncertainty in the unsaturated zone of yucca mountain, *AGU Fall Meeting*, Dec. 10 – 14, 2007, San Francisco, California.

104.   **Ye, M.**, K. Pohlmann, J. Chapman, and G. Pohll (2006), Assessing recharge and geological model uncertainty at the climax mine area of the Nevada test site, AGU Fall Meeting, Dec. 11 – 15, 2006, San Francisco, California.

105.   Meyer, P.D., **M. Ye,** S.P. Neuman, and M.L. Rockhold (2006), Application of maximum likelihood bayesian model averaging to groundwater flow and transport at the hanford site 300 area, AGU Fall Meeting, Dec. 11 – 15, 2006, San Francisco, California.

106.   Pan, F., **M. Ye**, Y.S. Wu, and B. Hu (2006), Simulation of radionuclide transport in heterogeneous unsaturated zone of Yucca Mountain, *AGU Fall Meeting*, Dec. 11 – 15, 2006, San Francisco, California.

107. Pan, F., **M. Ye**, Y.S. Wu, and B. Hu (2006), Uncertainty analysis of radionuclide transport in the unsaturated fractured rock at Yucca Mountain, Nevada, *GSA Fall Meeting*, Oct. 22 – 25, 2006, Philadelphia, PA.

108. Pohlmann, K.F., J. Zhu, **M. Ye**, R.W. Carroll, J.B. Chapman, C.E. Russell, and D. Shafer, (2006), Evaluation of groundwater pathways and travel times from the Nevada Test Site to the potential Yucca Mountain repository, AGU Fall Meeting, Dec. 11 – 15, 2006, San Francisco, California.

109. Reeves. D.M., K.F. PohlmannJ. G.M. Pohll, J.B, Chapman, and **M. Ye** (2006), Incorporation of model and parameter uncertainty in predicting radionuclide fluxes from the Climax granite intrusive, Nevada Test Site, AGU Fall Meeting, Dec. 11 – 15, 2006, San Francisco, California.

110. **Ye, M.,** M.G. Schaap, R. Khaleel, and J. Zhu (2005), Characterizing soil hydraulic parameter heterogeneity using Cokriging and artificial neural network: A framework of integrating hard and soft data, *AGU Fall Meeting*, Dec. 5 – 9, 2005, San Francisco, California.

111. Pohlmann, K.F., **M. Ye**, G. Pohll, and J. Chapman (2005), Assessing recharge model uncertainty: Case study using the Death Valley Regional Flow System Model, *AGU Fall Meeting*, Dec. 5 – 9, 2005, San Francisco, California.

112. Pan, F., **M. Ye**, Y.S. Wu, B. Hu, C. Shirley, and Z. Yu (2005), Uncertainty assessment of radionuclide transport in the Yucca Mountain unsaturated zone: coping parametric and parameter estimation uncertainty, *AGU Fall Meeting*, Dec. 5 – 9, 2005, San Francisco, California.

113. Meyer, P.D., **M. Ye**, and S.P. Neuman (2005), Joint assessment of parameter and conceptual model uncertainty of alternative reactive transport models at the 300 Area of Hanford Site, *AGU Fall Meeting*, Dec. 5 – 9, 2005, San Francisco, California.

114. Meyer, P.D., **M. Ye**, S.P. Neuman, and Nicholson, T.J. (2005), Hydrologic scenario uncertainty in a comprehensive assessment of hydrogeologic uncertainty, *AGU Fall Meeting*, Dec. 5 – 9, 2005, San Francisco, California.

115. **Ye, M.**, P.D. Meyer, S.P. Neuman, and K. Pohlmann (2004), Estimating prior model probabilities using an entropy principle, AGU Fall Meeting, Dec. 13 – 17, 2004, San Francisco, California.

116. **Ye, M.**, S. P. Neuman, and P. D. Meyer (2003), Maximum likelihood Bayesian model averaging of spatial variability models in unsaturated fractured tuff, *AGU Fall Meeting*, Dec. 8 – 11, 2003, San Francisco, California.

117. **Ye, M.**, and S. P. Neuman (2002), Nonlocal and localized analyses of conditional mean transient flow in bounded, randomly nonuniform Domains, *AGU 2002 Fall meeting*, December 6 – 10, 2002, San Francisco, California.