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Prairie Research Institute
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EDUCATION

- 2002** Ph.D. in Geological Engineering
University of Wisconsin – Madison, Madison, Wisconsin, USA
Major: Hydrogeology; Minor: Uncertainty Analysis and Statistics
- 1996** M.S. in Civil and Environmental Engineering
University of Connecticut, Storrs, Connecticut, USA
- 1993** B.S. in Water Resources and Environmental Engineering
Tamkang University, New Taipei City, Taiwan

EMPLOYMENT

- Present** Director (since 2018)
Illinois Water Resource Center, Prairie Research Institute
University of Illinois at Urbana-Champaign
- Principal Research Scientist (since 2012 as Hydrogeologist)
Illinois State Geological Survey, Prairie Research Institute
University of Illinois at Urbana-Champaign
- Clinical Professor (since 2012 as Adjunct Associate Professor)
Department of Civil and Environmental Engineering
University of Illinois at Urbana-Champaign
- Research Professor (since 2012 as Adjunct Associate Professor)
Department of Natural Resources and Environmental Sciences
University of Illinois at Urbana-Champaign
- 2017 – 2019** Associate Director
Illinois-Indiana Sea Grant College Program
University of Illinois at Urbana-Champaign
- 2013 – 2016** Assistant Section Head, Hydrogeology and Geophysics Section
Illinois State Geological Survey, Prairie Research Institute
University of Illinois at Urbana-Champaign
- 2009 – 2012** Hydrogeologist
Illinois State Water Survey, Prairie Research Institute
University of Illinois at Urbana-Champaign
- Founding Director
ESRI-GIS Development Center, Prairie Research Institute
University of Illinois at Urbana-Champaign
- 2006 – 2008** Associate Hydrogeologist
Illinois State Water Survey, Illinois Department of Natural Resources
- 2002 – 2005** Assistant Hydrogeologist

Illinois State Water Survey, Illinois Department of Natural Resources

- 1999 – 2002** Hydrologic Technician (Student Position)
Wisconsin Geological and Natural History Survey and
U.S. Geological Survey, Water Resources Division, Wisconsin District Office
- 2000 – 2001** Teaching Assistant
Department of Geology and Geophysics, University of Wisconsin – Madison
- 1998 – 1999** Research Assistant
Department of Soil Science, University of Wisconsin – Madison
- 1997 – 1998** Research Assistant
Department of Civil and Environmental Engineering, University of Wisconsin – Madison
- 1995 – 1996** Graduate Assistant
Graduate and Research Information Systems, University of Connecticut
- 1994 – 1996** Research Assistant
Environmental Research Institute, University of Connecticut

HONORS

Fellow, 2018, Geological Society of America

Distinguished Alumni Award, 2013, Department of Water Resources and Environmental Engineering,
Tamkang University, Taipei, Taiwan

Faculty Fellow, 2006, National Center for Supercomputing Applications, Champaign, IL (Web Lecture
available at: http://gladiator.ncsa.uiuc.edu/vidcasts/ffp/ncsa_ff-lin-2007.04.05.m4v)

NAS Invited Student Presentation, 2002, Groundwater Fluxes Across Interfaces Workshop, National
Research Council, National Academy of Sciences, Egg Harbor, WI

Best Student Paper Award, 2001, Oral Presentation, the 46th Annual Midwest Groundwater
Conference, Madison, WI

MAJOR RESEARCH PROJECTS

Geothermal Heat Recovery Complex: Large-Scale, Deep Direct-Use System in a Low-Temperature
Sedimentary Basin, 2017 – 2020, Principal Investigator, awarded by the Office of Energy Efficiency and
Renewable Energy, U.S. Department of Energy. <https://www.isgs.illinois.edu/achievements/october/isgs-receives-720000-award-doe-geothermal-research>

Thermal Response Test Unit for Geothermal Pilot Project, 2017 – 2018, Advisor, Student Sustainability
Committee project awarded by the University of Illinois at Urbana-Champaign.

Development on Improving Geothermal Exchange Infrastructure, 2016-2017, Principal Investigator,
awarded by the University of Illinois at Urbana-Champaign and the Army Construction Engineering
Research Laboratory, U.S. Department of Defense.

Using Distributed Temperature Sensing to Measure Stream–Aquifer Exchange at the Ribeirão da Onça
Creek Watershed in the Guarani Aquifer System, 2016 – 2018, Principal Investigator, awarded by the
Lemann Institute for Brazilian Studies at the University of Illinois at Urbana-Champaign, and the São
Paulo Research Foundation, FAPESP [Grant# 2015/03806-1].

High Resolution Temperature Profiling and Thermal Analysis for Geothermal Energy, 2016 – 2018,
Principal Investigator, awarded by the University of Illinois at Urbana-Champaign.

MRI: Acquisition of a National CyberGIS Facility for Computing and Data-Intensive Geospatial Research and Education, 2014 – 2017, Senior Personnel, awarded by US National Science Foundation. http://www.nsf.gov/awardsearch/showAward?AWD_ID=1429699

Scientific Activities in Support of Water Supply Planning, Illinois, 2014 – 2016, Co-Principal Investigator, awarded by Illinois Department of Natural Resources.

Intensively Managed Landscapes-Critical Zone Observatory (IML-CZO), Established in 2013, Investigator, awarded by US National Science Foundation. <http://criticalzone.org/iml/about/>

Protecting drinking water by reducing uncertainties associated with the geologic carbon sequestration in deep saline aquifers, 2010 – 2013, Co-Principal Investigator, awarded by US Environmental Protection Agency – Science to Achieve Results (STAR) program. http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/9051/report/0

Groundwater Studies for Water Supply Planning in McHenry County, Illinois, 2010 – 2012, Co-Principal Investigator, awarded by McHenry County, Illinois.

Scientific Support for Updating Elgin’s Comprehensive Water Master Plan, 2010, Co-Principal Investigator, awarded by Engineering Enterprises, Inc.

Illinois water supply planning, 2007 – 2010, Co-Principal Investigator, awarded by the State of Illinois.

Balancing irrigation and instream water requirements under drought conditions: a study of the Kankakee River watershed, 2007 – 2009, Collaborator, awarded by the Illinois Water Resources Center.

Smart Pipe – Nanosensors for monitoring water quantity and quality in public water systems, 2006 – 2009, Principal Investigator, awarded by US Environmental Protection Agency – Midwest Technology Assistance Center.

The development of point-to-zone pattern learning (P2Z) for groundwater recharge and discharge estimation, 2006 – 2008, Principal Investigator, awarded by the National Center for Supercomputing Applications - Faculty Fellows Program 2006. [http://www.ncsa.illinois.edu/about/fellows_awardees/the_development_of_point_to_zone_pattern_learning_p2z_for_groundwater_recha](http://www.ncsa.illinois.edu/about/fellows_awardees/the_development_of_point_to_zone_pattern_learning_p2z_for_groundwater_recharge)

Antibiotic resistance genes and residues in water and soil in close proximity to swine production facilities, 2005 – 2009, Co-Principal Investigator, awarded by U.S. Department of Agriculture (National Research Initiative Competitive Grants).

Estimating shallow recharge and discharge in northeastern Illinois using GIS and pattern-recognition procedures, 2004 – 2007, Principal Investigator, awarded by U.S. Geological Survey and National Institutes for Water Resources (National Competitive Grants 104G). <http://water.usgs.gov/wrri/04grants/national/2004IL49G.html>

Spatial and temporal shallow recharge rates in Wisconsin, 2003 – 2006, Collaborator, awarded by U.S. Geological Survey internal fund.

Water-resources investigations for Kane County, Illinois, 2002 – 2008, Researcher, awarded by Kane County, Illinois and the State of Illinois.

SOFTWARE DEVELOPMENT

uWATER-PA – Ubiquitous WebGIS Analysis Toolkit for Extensive Resources: an ArcGIS Explorer plug-in package developed for initial assessment on complex groundwater pumping impacts (Details and download available at <https://www.isws.illinois.edu/iswsdocs/sware/uwaterpa/uWATER-PA-Manual.pdf>)

uWATER – The ubiquitous WebGIS Analysis Toolkit for Extensive Resources: an ArcGIS Explorer plug-in package developed for visualizing and analyzing decision support variables (Details and download available at <https://www.isws.illinois.edu/iswsdocs/sware/uwater/uWATER1.1-Manual.pdf>)

SP2Learn – Spatial Pattern to Learn: A software suite for geospatial modeling from ancillary field measurements using image processing and machine learning (Details and download available at http://isda.ncsa.illinois.edu/download/index.php?project=SP2Learn&category=documentation&version=Unknown&file=SP2Learn_v2_userGuide20090112.pdf)

PRO-GRADE – Pattern Recognition Organizer and Groundwater Recharge And Discharge Estimator for Geographic Information Systems: A software package includes two GIS plug-in tools for image and map pattern recognition and groundwater recharge and discharge estimation in 2D and steady state (Details and download available at <https://www.isws.illinois.edu/iswsdocs/sware/prograde/PRO-GRADE-guide-web.pdf>)

MEDIA INTERVIEW

A Natural Choice: Mathematica's Role in Natural Resource Studies by Wolfram Research, Inc.
<http://www.wolfram.com/mathematica/customer-stories/natural-resource-studies-with-mathematica.html>

ACADEMIC SERVICES

Adjunct and Affiliate Faculty

- Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign
- Department of Natural Resources and Environmental Sciences, University of Illinois at Urbana-Champaign
- Illinois Informatics Institute, University of Illinois at Urbana-Champaign
- Center for Nanoscale Science and Technology, University of Illinois at Urbana-Champaign
- Cyberinfrastructure and Geospatial Information Laboratory, University of Illinois at Urbana-Champaign

Dissertation Committee and Postdoctoral Mentorship

- Franklin H. Holcomb, Ph.D. candidate, since 2016, Department of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign
- Tianfang Xu, Ph.D. 2016, Department of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign
- Jihua Wang, Ph.D. 2013, Department of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign
- Diego M. Oviedo-Salcedo, Ph.D., 2012, Department of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign
- Yi-Chen Ethan Yang, Postdoctoral Research Associate, 2010-2011, Illinois State Water Survey, University of Illinois at Urbana-Champaign
- Jun Wan, Ph.D., 2011, Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign
- Yonas Demissie, Ph.D., 2008, Department of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign, now with Argonne National Laboratory

Instructor, 2012, Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign

- CEE457: Groundwater

Instructor, 2009 - 2012, ESRI-GIS Development Center / Prairie Research Institute, University of Illinois at Urbana-Champaign.

Instructor, 2004, Illinois State Water Survey, University of Illinois at Urbana-Champaign

- Professional Short Course: Groundwater Modeling with Groundwater Vistas Application.

Teaching Assistant, 2001, for Professor Jean M. Bahr, Department of Geology and Geophysics, University of Wisconsin – Madison

- Geology 729: Field Applications in Hydrogeology

Teaching Assistant, 2000, for Professor Mary P. Anderson, Department of Geology and Geophysics, University of Wisconsin – Madison

- Geology 724: Groundwater Flow Modeling

PROFESSIONAL SERVICES

Management Board, member, since 2019, Hydrogeology Division, Geological Society of America

Technical Chair, 2018, Hydrogeology Division, Geological Society of America

Chair, 2018, committee member since 2017, Energy Generation, Purchasing, and Distribution Sustainability Working Advisory Team, University of Illinois at Urbana-Champaign (<https://icap.sustainability.illinois.edu/node/1850>)

Executive Editor, since 2017, *Groundwater*, National Ground Water Association

Delegate, Since 2013, the Universities Council on Water Resources (UCOWR)

Representative, since 2011, Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI) established by U.S. National Science Foundation

Representative Member, since 2010, the University Consortium for Geographic Information Science (UCGIS) established by U.S. National Science Foundation

Advisory Committee Member, 2016-2018, Illinois Water Resources Center

Board Director, 2014-2018, Chinese American Water Resources Association

Technology Editor, 2014-2016, *Groundwater*, National Ground Water Association

Vice Chair, 2015-2016, Geological Society of America - North-Central Section

Vice Chair, 2016, the 50th Annual Meeting of Geological Society of America - North-Central Section Champaign, IL

Session Chair, Recent Advances in Hydrogeology I, 2015 Annual Meeting of Geological Society of America, November 1 – 4, 2015, Baltimore, MD

Associate Editor, 2011-2016, *Groundwater*, National Ground Water Association

Guest Editor, *The Journal of Stochastic Environmental Research and Risk Assessment, Special Issue: Evaluation of Multiple Conceptual Models and Modeling Scenarios*, Editors: Ming Ye, Philip D. Meyer, Yu-Feng F. Lin, Shlomo P. Neuman, 2010.

Organizer, GIS Fair 2009 and 2010, University of Illinois at Urbana-Champaign, Champaign, IL

Conference Manager, Conceptual, Spatial, and Numerical Modeling for Decision Support, 2009, University of Illinois at Urbana-Champaign, Champaign, IL

Session Convener, Uncertainty Analysis in Groundwater Modeling, American Geophysical Union Fall Meeting, December 15 – 19, 2008, San Francisco, CA

Organizer, Mathematica Workshop 2008, Campus Information Technologies and Educational Services, University of Illinois at Urbana-Champaign, Champaign, IL

Session Moderator, Evaluation of Multiple Conceptual Models and Modeling Scenarios, National Ground Water Association, 2008 Ground Water Summit, March 30 – April 3, 2008, Memphis, TN

Session Moderator, Ground Water Modeling: Past, Present, and Future—A Session in Memory of Thomas A. Prickett, National Ground Water Association, 2008 Ground Water Summit, March 30-April 3, 2008, Memphis, TN

Final Review Panelist, National Competitive Grants Program - 104(G): National Institutes for Water Resources - U.S. Geological Survey, 2006, Reston, VA

Judge, National Science Olympiad, 2005, Urbana, IL

Member, American Geophysical Union, Geological Society of America, International Association of Hydrological Sciences, National Ground Water Association, Illinois Groundwater Association, Illinois GIS Association

PROFESSIONAL LICENSE CERTIFICATION AND TRAINING

Professional Geoscientist, 2014, Louisiana Board of Professional Geoscientists

Graduate Faculty Mentoring Workshop, 2013, “Identifying Your Personal Mentoring Style and Adapting to Students’ Needs”, University of Illinois at Urbana-Champaign.

Kepner-Tregoe Project Management Workshop, 2013, University of Illinois at Urbana-Champaign.

Geographic Information Systems Professional (GISP), 2011, GIS Certification Institute, USA

Distributed Temperature Sensing (DTS) Workshop, 2011, USGS, Fort Lauderdale, FL

Advanced Mathematica Summer School, 2009, Wolfram Research, Champaign, IL

LINUX Cluster-Building Workshop, 2006, NCSA, Champaign, IL

Workshops for Teaching Excellence, 2006, University of Illinois at Urbana-Champaign, Urbana, IL

PEST: Model-independent parameter estimation, 2005, USGS, Middleton, WI

Introduction to Programming ArcObjects with VBA, 2004, ESRI, Naperville, IL

UCODE: A computer code for universal inverse modeling, 2000, USGS, Middleton, WI

GFLOW: Analytic element modeling, 2000, USGS, Middleton, WI

National License (Taiwan): Class-A Wastewater Treatment Manager, 1993, Taipei, Taiwan

PEER REVIEWED PUBLICATIONS (* Denotes student or postdoc author)

Stumpf, A., Damico, J., Okwen, R., Stark, T., Elrick, S., Nelson, W.J., Lu, Y., Holcomb, F.*, Tinjum, J., Yang, F., Frailey, S., and **Lin, Y-F**, 2018. Feasibility of a Deep Direct-Use Geothermal System at the University of Illinois Urbana-Champaign. *GRC Transactions*, 42: 227–248.

McDaniel A.*, J. Tinjum, D. Hart, **Y. F. Lin**, A.S. Stumpf, and L. Thomas*. 2018. Distributed Thermal Response Test to Analyze Thermal Properties in Heterogeneous Lithology, *Geothermics*. 76: 116-124. doi: 10.1016/j.geothermics.2018.07.003.

Wu, Q., Y. Zhao*, **Y. F. Lin**, H. Xu, and H. Zhang. 2018. Direct conservative domain in continuous Galerkin groundwater models, *Groundwater*. 56(3): 491-500. doi: 10.1111/gwat.12622.

Kumar P., V.V. L. Phong, T. A. N. Papanicolaou, R. L. Bruce, A. Anders, A. Stumpf, C. Wilson, A. Bettis, N. Blair, A. S. Ward, T. Filley, H. Lin, L. Keefer, D. A. Keefer, **Y. F. Lin**, M. Muste, T. V. Royer, E. Foufoula-Georgiou, and P. Belmont. 2018. Critical Transition in Critical Zone of Intensively Managed Landscapes. *Anthropocene*. 22: 10-19. doi: 10.1016/j.ancene.2018.04.002.

- Xu T.*, A. J. Valocchi, M. Ye, F. Liang and **Y.F., Lin**. 2017. Bayesian Calibration of Groundwater Models with Input Data Uncertainty. *Water Resources Research*. 53: 3224–3245. doi: 10.1002/2016WR019512.
- Wu, Q., Y. Zhao*, **Y. F. Lin**, and H. Xu. 2016. Locally Conservative Flow Fields in Continuous Galerkin Groundwater Models Using Prismatic Meshes. *Water Resources Research*. 52: 9182-9189. doi: 10.1002/2016WR018967.
- Dong, D., G. Lin*, **Y.F. Lin**, M. Zhao, and L. Li. 2016. Evaluating Induced Fractures between a Large Artificial Lake and an Aquifer-Coal Seam System: A Case Study in Tangshan Coal Mine, China. *Mine Water and the Environment*. 35(2): 253-260. doi: 10.1007/s10230-014-0319-z.
- Lin, Y.-F. F.** 2014. Hydrogeology: Objectives, Methods, Applications (Book Review), *Groundwater*. 52(6): 815-816. doi: 10.1111/gwat.12282.
- Wan, J.*, Y.E. Yang*, **Y.F. Lin** and J. Wang*. 2013. Groundwater Resource Planning to Preserve Streamflow - Where Environmental Amenity Meets Economic Welfare Loss. *Journal of Water Resources Planning and Management*. 139(4): 440–448
- Wan, J.*, Y.E. Yang*, and **Y.F. Lin**. 2013. The Effect of Groundwater Allocation on Economic Welfare Loss. *Groundwater*. 51(4): 603–612. DOI: 10.1111/j.1745-6584.2012.00998.x
- Meyer S.C., **Y.F. Lin**, and G.S. Roadcap. 2012. Improved Recharge and Discharge Estimation for a Three-Dimensional Flow System. *Groundwater*. 15(3): 457-463.
- Bajcsy P., **Y-F. Lin**, A. Yahja, and C-Y. Kim. 2011. A Framework for Accurate Geospatial Modeling Using Image Ranking and Machine Learning. *Journal of Hydroinformatics*, 13(3): 443–460. DOI:10.2166/hydro.2010.187.
- Yang Y.E.* and **Y.F. Lin**. 2011. A New GIScience Application for Visualized Natural Resources Management and Decision Support. *Transactions in GIS* 15(s1): 109-124.
- Ye M., P. D. Meyer, **Y-F. Lin**, S. P. Neuman. 2010. Quantification of Model Uncertainty in Environmental Modeling. *Stochastic Environmental Research and Risk Assessment* 24(6): 807–808.
- Zhou Q., J. T. Birkholzer, H. Leetaru, E. Mehnert, **Y-F. Lin**, and K. Zhang. 2010. Modeling Basin- and Plume-Scale Processes of CO₂ Storage for Full-Scale Deployment. *Groundwater* 48(4): 494-514.
- Chee-Sanford J. C., R. I. Mackie, S. Koike, I. J. Krapac, **Y-F. Lin**, A. C. Yannarell, S. Maxwell, and R. I. Aminov. 2009. Fate and Transport of Antibiotic Residues and Antibiotic Resistance Genes Following Land Application of Manure Waste. *Journal of Environmental Quality* 38: 1086–1108.
- Lin Y-F.**, J. Wang,* and A. J. Valocchi. 2008. PRO-GRADE: GIS Toolkits for Ground Water Recharge and Discharge Estimation. *Groundwater* 47(1): 122-128.
- Lin Y-F.**, J. Wang,* and A. J. Valocchi. 2008. A New GIS Approach for Estimating Shallow Groundwater Recharge and Discharge. *Transactions in GIS* 12(4): 459-474.
- Lin Y-F.** and M.P. Anderson. 2003. A Digital Procedure for Ground Water Recharge and Discharge Pattern Recognition and Rate Estimation. *Groundwater* 41(3): 306-315.
- Lin Y-F.** and M. P. Anderson. 2003. UCODE Calibration for Recharge/Discharge Rates Using a Digital Pattern Recognition Procedure. *Calibration and Reliability in Groundwater Modelling: A Few Steps Closer to Reality*, K. Kovar (ed.), International Association of Hydrological Sciences Redbook 277: 212-218.
- Lin Y-F.** 2002. *Development of a Digital Method for Estimating Groundwater Recharge and Discharge*, Ph.D. Dissertation, University of Wisconsin - Madison, 106 pp. (plus one CD-ROM)

Sawyer C. S. and **Y-F. Lin**. 1998. Mixed-Integer Chance-Constrained Models for Ground-Water Remediation. *Journal of Water Resources Planning and Management* 124(5): 185-194.

Lin Y-F. 1996. *Chance-Constrained Models for Groundwater Remediation*, M.S. Thesis, University of Connecticut, 89 pp.

TECHNICAL REPORTS

Lin, Y.F., S. Zhong, and A.J. Stumpf. 2016. *Procedure for Three-dimensional Printing of a Digital Hydrostratigraphic Model*. Illinois State Geological Survey, Circular 593, 9 p.
<http://isgs.illinois.edu/publications/c593>

Mehnert, E., Adams, N., Zohreh, A.-K., Benson, S.M., Berger, P.M., Butler, S.K., D'Alessio, M., Freiburg, J.T., Hackley, K.C., Krothe, N.C., Krothe, J., Kelly, W.R., **Lin, Y.F.**, Panno, S.V., Ray, C., Rice, R.J., Roy, W.R., Storsved, B.A., Strandli, C.W., and Yoksoulian, L.E., 2015, *Protecting Drinking Water by Reducing Uncertainties Associated with Geologic Carbon Sequestration in Deep Saline Aquifers*, EPA-STAR Project Report and Report Summary: EPA-G2008-STAR-H1 (A-24141), ISGS Contract Report.

Roadcap G.S., S.C. Meyer, W.R. Kelly, H.A. Wehrmann, and **Y.F. Lin**. 2013. *Groundwater Studies for Water Supply Planning in Kendall County, Illinois*. Illinois State Water Survey Contract Report 2013-05, Champaign, IL. <http://www.isws.illinois.edu/pubs/pubdetail.asp?CallNumber=ISWS+CR+2013-05>

Meyer, S.C., **Y-F Lin**, D.B. Abrams, G.S. Roadcap. 2013. *Groundwater Simulation Modeling and Potentiometric Surface Mapping, McHenry County, IL*. Illinois State Water Survey Contract Report 2013-06, Champaign, IL.
<http://www.isws.illinois.edu/pubs/pubdetail.asp?CallNumber=ISWS+CR+2013-06>

Meyer S.C., H.A. Wehrmann, H.V. Knapp, **Y.F. Lin**, F.E. Glatfelter, J.R. Angel, J.F. Thomason, and D.A. Injerd. 2012. *Northeastern Illinois Water Supply Planning Investigations: Opportunities and Challenges of Meeting Water Demand in Northeastern Illinois – Full Report*. Illinois State Water Survey Contract Report 2012-03, Champaign, IL. <http://www.isws.illinois.edu/pubdoc/CR/ISWSCR2012-03.pdf>

Yang Y.E. and **Y.F. Lin**. 2011. *uWATER-PA: Ubiquitous WebGIS Analysis Toolkit for Extensive Resources – Pumping Assessment, Version 1.0 User's Manual*. Illinois State Water Survey Miscellaneous Publication 194, Champaign, IL.

Yang Y.E. and **Y.F. Lin**. 2010. *uWATER: Ubiquitous WebGIS Analysis Toolkit for Extensive Resources, Version 1.0 User's Manual*. Illinois State Water Survey Miscellaneous Publication 192, Champaign, IL.

Lin Y-F and C. Liu. 2009. *Smart Pipe: Nanosensors for Monitoring Water Quantity and Quality in Public Water Systems*. Midwest Technology Assistance Center Technical Report 09-03. Illinois State Water Survey Contract Report 2009-11. Champaign, IL.
<http://www.isws.illinois.edu/pubdoc/CR/ISWSCR2009-11.pdf>

Meyer, S. C., Roadcap, G. S., **Lin, Y.-F.** and Walker D. D. 2009. *Kane County Water Resources Investigations: Simulation of Groundwater Flow in Kane County and Northeastern Illinois*. Illinois State Water Survey Contract Report 2009-07, Champaign, IL.
<http://www.isws.illinois.edu/docs/pubs/ISWSCR2009-07/>

Mackie R. I., S. Koike, I. Krapac, J. Chee-Sanford, S. Maxwell, **Y-F. Lin** and R. I. Aminov. 2006. *Fate and Transport of Antibiotic Residues and Antibiotic Resistance Genetic Determinants during Manure Storage, Treatment, and Land Application with Emphasis on the Environmental Persistence and Transferability of these Determinants*. National Pork Board.

Gotkowitz, B.B., K.K. Zeiler, C.P. Dunning, J. Thomas and **Y-F. Lin**. 2005. *Hydrogeology and Groundwater Flow Modeling of Sauk County, Wisconsin*. Wisconsin Geological and Natural History Survey Bulletin 102.

Dunning, C.P., J.C. Thomas and **Y-F. Lin**. 2003. *Simulation of the Shallow Ground-Water System in the Vicinity of Silver Lake, Washington County, Wisconsin, Using Analytic Elements*. U.S. Geological Survey, Water-Resources Investigations Report 02-4204.

Krohelski J. T., **Y-F. Lin**, W. J. Rose and R. J. Hunt. 2002. *Simulation of Fish, Mud and Crystal Lakes and the Shallow Ground-Water System of Northwestern Dane County, Wisconsin*. U.S. Geological Survey, Water-Resources Investigations Report 02-4014.

Hunt, R. J., **Y-F. Lin**, J. T. Krohelski and P. F. Juckem. 2000. *Simulation of the Shallow Hydrologic System in the Vicinity of Middle Genesee Lake, Wisconsin, Using Analytic Element and Parameter Estimation*. U.S. Geological Survey, Water-Resources Investigations Report 00-4136.

MAGAZINE AND CONFERENCE PUBLICATIONS

Y.F. Lin, A.J. Stumpf, S.M. Frailey, and F.H. Holcomb, 2019. *Feasibility of Deep Direct-Use Heating for District-Scale Energy Systems Over the Illinois Basin*, Invited Conference Abstract and Oral Presentation, Geological Society of America - 2019 Annual Meeting, September 22-25, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/webprogram/Paper337671.html>

Stumpf A.J., **Y.F. Lin**, M. Attalla, and X. Cai, 2019. *Geothermal Energy: An Integral Component on the Pathway to Carbon Neutrality at the University of Illinois at Urbana-Champaign*, Conference Abstract and Oral Presentation, Geological Society of America - 2019 Annual Meeting, September 22-25, Phoenix, AZ.

Liu, H., **Y.F. Lin**, A.J. Stumpf, A.J. Valocchi, J. Lin and S. Sargent, 2019. *Multiphysics Coupled Modeling for Heat Transfer in Heterogeneous Lithologies*, Conference Abstract and Poster Presentation, Geological Society of America - 2019 Annual Meeting, September 22-25, Phoenix, AZ.

Lin, Y.F., A. Stumpf, P. Kumar and S. Sargent, 2018. *Measuring Earth's Vital Sign—Temperature—in Four Dimensions*. Conference Abstract and Oral Presentation, Geological Society of America - 2018 Annual Meeting, November 4-7, 2018, Indianapolis, IN.

Liu, H, **Y.F. Lin**, A. Stumpf, S. Sargent and P. Kumar, 2018. *Heat tracer detection in upper Sangamon River: temperature measurements on groundwater and surface water interaction zone using fiber-optic distributed temperature sensing*. Conference Abstract, Geological Society of America - 2018 Annual Meeting, November 4-7, 2018, Indianapolis, IN.

Stumpf, A and **Y.F. Lin**, 2018. *Thermogeology Assessments of Geothermal Energy in the Shallow Heterogeneous Subsurface*. Conference Abstract and Oral Presentation, Geological Society of America - 2018 Annual Meeting, November 4-7, 2018, Indianapolis, IN.

Liu, H, **Y.F. Lin**, A. Stumpf, P. Kumar and S. Sargent, 2018. *Spatial and Temporal Pattern Monitoring on groundwater and surface water interactions using Fiber-optic Distributed Temperature Sensing*. Conference Abstract, Geological Society of America - North-Central Section Annual Meeting 2018, April 16-17, 2018, Ames, IA.

Lin, Y.F., 2018. *Geothermal Heat Recovery Complex (GeoHRC): Large-Scale, Deep Direct-Use System in a Low-Temperature Sedimentary Basin*, 2018 Great Lakes SediHeat Geothermal Workshop, Conference Abstract and Oral Presentation, February 18-20, 2018, Cleveland, OH.

Wendland, E., D. M. S. Rosa, G. A. A. Anache, C. Lowry and **Y.F., Lin**, 2017. *Identifying Stream/Aquifer Exchange by Temperature Gradient in a Guarani Aquifer System Outcrop Zone*.

Conference Abstract, American Geophysical Union Fall Meeting 2017, December 11-15, 2017, New Orleans, LA.

Lin Y-F., Y. Ge and A.S. Stumpf, 2017. *Groundwater and Global Energy Security*. Conference Abstract and Oral Presentation, National Ground Water Association, 2017 Ground Water Summit, December 4-7, 2017, Nashville, TN.

Y.F. Lin, 2017. *GeoHRC: Large-Scale, Deep Direct-Use System in a Low-Temperature Sedimentary Basin*. Conference Abstract and Oral Presentation, 2017 Geothermal Technologies Office Peer Review, November 13-15, Denver, Colorado.

Stumpf A. S. and **Lin, Y.F.**, 2017. *Thermophysical Characterization for Designing Ground-Source Heat Exchange Systems*, Geological Society of America - 2017 Annual Meeting, Conference Abstract and Oral Presentation, October 22-25, 2017, Seattle, WA.

Wendland, E., **Lin, Y.F.**, C. Lowry, D. M. S. Rosa and A. G. Miranda, 2017. *Monitoring Temperature as a Tracer at the Guarani Aquifer System Outcrop Zone*, Geological Society of America - 2017 Annual Meeting, Conference Abstract and Oral Presentation, October 22-25, 2017, Seattle, WA.

Y.F. Lin, Luo, Y, P. Kumar and A. Stumpf, 2016. *Characterizing vertical heat transport in the critical zone by using fiber-optic distributed temperature sensing*. Conference Abstract, Asia Oceania Geosciences Society 2016 Annual Conference, August 1, 2016, Beijing, China.

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