

The University of Kansas

Lawrence, KS 66045

Jie Han, Ph.D., PE, F.ASCE
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EDUCATION

Ph.D., Civil Engineering, the Georgia Institute of Technology, 1997
MS, Civil Engineering, the Georgia Institute of Technology, 1995
Certificate, Composites Engineering, the Georgia Institute of Technology, 1995
MS, Geotechnical Engineering, Tongji University, P.R. China, 1989
BS, Geotechnical Engineering, Tongji University, P.R. China, 1986

PROFESSIONAL REGISTRATION

Licensed P.E. in Civil Engineering in Georgia since 1998 (License No. 024539)

TEACHING EXPERIENCE

Roy A. Roberts (University) Distinguished Professor, the University of Kansas, August 2022 – present;
Glenn L. Parker Professor of Geotechnical Engineering, April 2017 – August 2022; Professor, August 2010 – April 2017; Associate Professor, August 2004 – August 2010 (tenured in August 2008),
Department of Civil, Environmental, and Architectural Engineering, THE UNIVERSITY OF KANSAS

Courses Taught

- CE484 Materials for Transportation Facilities (undergraduate course, Spring 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014)
- CE585 Foundation Engineering (undergraduate course, Spring 2005)
- CE788 Geotechnical Engineering Testing (graduate course, Fall 2004, Spring 2007, Fall 2008, Fall 2010, Fall 2012, Spring 2015, Fall 2016, Spring 2018, Fall 2019, Spring 2021, Fall 2022)
- CE889 Designing with Geosynthetics (graduate course, Spring 2005, Fall 2009, Spring 2012, Spring 2014, Spring 2016, Spring 2018, Spring 2020, Fall 2021)
- CE888 Ground Improvement (graduate course, Fall 2005, Spring 2008, Spring 2011, Fall 2014, Spring 2016, Fall 2017, Spring 2019, Fall 2020, Spring 2022)
- CE885 Advanced Foundation Engineering (graduate course, Spring 2006, Fall 2007, Spring 2010, Spring 2013, Spring 2015, Fall 2018, Spring 2020; Spring 2022)
- CE884 Principles of Pavement Design (graduate course, Fall 2006, Spring 2009, Fall 2011, Fall 2013, Fall 2015, Spring 2019, Spring 2021)

Advising

- 24 Ph.D. students (2004 – present), 21 graduated
- 21 MS students (2005 – present), 21 graduated
- 33 visiting professors/scholars and 16 visiting Ph.D. students (2004 – present)
- More than 200 undergraduate students (2004 – present)

Instructor, National Highway Institute (NHI), September 2019 – present

Courses Taught

- 132013 Geosynthetic Design and Construction Guidelines
- 132040 Geotechnical Aspects of Pavements (Denver, October 2019)

Assistant Professor, Department of Civil Engineering, WIDENER UNIVERSITY, August 2001 – August 2004 (promoted to Associate Professor)

Courses Taught

- Soil Mechanics (undergraduate course, Fall 2001, Spring & Fall 2002, Spring 2003, Fall 2003; Spring 2004)
- Foundation Engineering (undergraduate course, Spring 2002, Spring 2003, Spring 2004, Summer 2004)
- Geosynthetics (graduate course, Summer 2002)
- Performance Evaluation of Constructed Facilities (graduate course, Fall 2002)
- Material Engineering (undergraduate course, Summer 2003)
- Senior Project (Fall 2002, Spring 2003, Fall 2003, Spring 2004)
- Railway Systems Design for Operations, Short Course (May 21-23, 2003)
- Sophomore Undergraduate Research (Fall 2002)
- Junior Undergraduate Research (Fall 2002, Fall 2003, Spring 2004)

Advising

- 15 Undergraduate students (2001- 2004)
- 2 MS graduate student (2002 – 2004)

Instructor, GEORGIA INSTITUTE OF TECHNOLOGY, USA, 1994 - 1997

Courses Taught

- Soil Lab Testing (graduate course, Winter 1997)
- Construction Materials (undergraduate course, Fall and Winter 1994; Spring and Summer 1995)

Lecturer, TONGJI UNIVERSITY, CHINA, 1989 - 1993

Courses Taught

- Soil Improvement (undergraduate course, Fall 1989, Spring 1991)
- In-Situ Testing (undergraduate course, Summer 1993)
- Underpinning (undergraduate course, Spring 1992, Spring 1993)
- Geology Field Trip (undergraduate course, Summer 1990)

Advising

- 2 MS graduate students (1989-1993)
- 50 undergraduate students (1989-1991)

WORK / RESEARCH EXPERIENCE

Roy A. Roberts (University) Distinguished Professor, the University of Kansas, August 2022 – present; Glenn L. Parker Professor of Geotechnical Engineering, April 2017 – August 2022; Professor, August 2010 – April 2017; Associate Professor, August 2004 – August 2010 (tenured in August 2008), Department of Civil, Environmental, and Architectural Engineering, THE UNIVERSITY OF KANSAS

Research Topics

- Behavior of geosynthetic-reinforced soil-integrated bridge systems

- Internal reinforcement for bridge abutments
- Rehabilitation of corroded steel pipes in soil
- Reduction of soil moisture by wicking geotextile
- Lightweight fill
- Calibration of Mechanistic-Empirical Design Guide
- Load rating of box culverts
- Behavior of steel-reinforced HDPE plastic pipes
- Capacity of bridge pile foundations under scour conditions
- Pullout resistance of steel strips in backfill with different uniformity
- Behavior of geocell-reinforced bases
- Laterally loaded drilled shafts in MSE walls
- Properties of recycled asphalt pavements
- Micromechanical analyses of geotechnical problems
- LRFD analysis for drilled shafts based on O-cell tests
- Reinforcement-drainage geosynthetics in embankment/wall construction with marginal backfill
- Geosynthetic-reinforced pile-supported embankments
- Numerical and limit equilibrium methods for reinforced earth structures
- Tolerable strains of asphalt overlays
- Moisture sensitivity of HMA (Superpave) mixtures
- Geomechanical model for recovery of coalbed methane

Affiliated Faculty, Center for Global and International Studies, THE UNIVERSITY OF KANSAS, August 2009 - present

Courtesy Faculty, Environmental Studies, THE UNIVERSITY OF KANSAS, August 2005 - present

Professor, Center for East Asian Studies, THE UNIVERSITY OF KANSAS, August 2010 – present;
Associate Professor, October 2004 – August 2010

Assistant Professor, Department of Civil Engineering, WIDENER UNIVERSITY, August 2001 – August 2004 (promoted to Associate Professor)

Research Topics

- Geosynthetic-reinforced pile-supported embankments
- Analysis and design of multi-tier mechanically stabilized earth wall systems
- Geosynthetically reinforced embankments on deep mixed columns
- Design of geosynthetic reinforced earth walls in limited space
- Tensile stiffness effects on performance geosynthetic-reinforced slopes
- Consolidation characteristics of soil-cement column foundations
- Load transfer mechanisms in underpinned foundations using micropiles
- Design of geosynthetic-reinforced unpaved roads
- Influence of curing conditions on soil-cement strength
- Permeability of floor concrete
- Development of a geotechnical testing box

Visiting Associate Professor, Lowland Institute, SAGA UNIVERSITY, JAPAN, August 2002 – September 2002

Research Topics

- Embankments over deep mixed columns
- Influence of deep mixing on properties of surrounding soil

Design Engineer, Senior Engineer, Manager of Research & Technology Development, TENSAR EARTH TECHNOLOGIES, INC., April 1997 – August 2001

Responsibilities

- Management of research and technology development projects
- Development of design methodologies and software for geosynthetics related applications: reinforced foundations, geosynthetic reinforced/piled embankments, subgrade improvement and base reinforcement, surficial slope stability, and service state design methods of MSE walls
- Principal contact to governmental agencies (NSF, FHWA, State DOTs, etc.), professional organizations (ASCE, NCMA, NAGS, etc.), and university professors for research collaborations and technical support
- Technical support or training for design engineers, salespersons, and clients
- Technical presentations to graduate and undergraduate students at universities, engineers at governmental agencies including State DOTs, and consulting firms

Research Assistant, GEORGIA INSTITUTE OF TECHNOLOGY, September 1993 - March 1997

Research Topics

- A study of fiber reinforced polymeric piles and pile-sand interactions (NSF CMS 9457549)
- The influence of geomembrane surface roughness on interface strength
- Optimum design of Stone Matrix Asphalt Mixes (GDOT Research project No. 9217)
- Membrane penetration in triaxial tests

Lecturer, TONGJI UNIVERSITY, P. R. OF CHINA, March 1989 - September 1993

Research Topics

- Soil-structure interactions of underpinned foundations using micropiles
- Selection of soil improvement techniques in Shanghai
- Experimental and theoretical studies of composite grounds
- Soil improvement for soft clays using stone columns and deep soil mixing columns
- Quality control in the construction using the dynamic compaction method
- A feasibility study of subgrade improvement for an airfield
- Controlling of displacements induced by pile driving in the construction of a 38-story building
- The Shanghai soil improvement design and construction code
- Prevention grouting for protecting existing buildings during the excavation and sheetpiles pulled out
- Properties of cement-treated soils

RESEARCH INTERESTS

- Geosynthetics (walls, slopes, embankments, foundations, pavements, etc.)
- Ground improvement (stone columns, deep mixed columns, micropiles, etc.)
- Buried structures
- Soil-structure interactions
- Pile foundations
- Geomechanics
- Geomaterials
- Roadway engineering
- Geotechnical instrumentation
- Asphalt technology and pavement design
- Numerical analysis

- Load Resistance Factor Design (LRFD) in geotechnical engineering

TEACHING INTERESTS

- Basic and advanced soil mechanics
- Shallow and deep foundations
- Materials for transportation facilities
- Geosynthetics
- Ground improvement
- Earth retaining structures and slope stability
- In-situ testing and instrumentation
- Pavement design
- Buried structures

HONORS / AWARDS

- Roy A. Roberts (University) Distinguished Professor, the University of Kansas, August 2022 - present
- The 2021-2023 Robert M. Koerner Award Recipient and Lecturer, the Geosynthetic Materials Association
- Co-author, the 2020 Best Paper Award, Geosynthetics International (paper: Introduction to special issue on geosynthetic-reinforced pile-supported embankments: state of the art, *Geosynthetics International*, 2020, 27(2), 112-141 by Van Eekelen, S.J.M. and Han, J.)
- Co-author, the 2019 Best Paper Award, Geotextiles and Geomembranes (paper: A new generation of soil-geosynthetic interaction experimentation, *Geotextiles and Geomembranes*, 2019, 47(4):459-476 by A.M. Morsy, J.G. Zornberg, J. Han, D. Leshchinsky)
- Advisor for the first-place winner (Fengjuang Tao, Chen Chen, and Sarah Morton) of the ASCE Geo-Institute Student National GeoVideo Competition, Minneapolis, MN, February 24-28, 2020
- Advisor for the first-place winner (Tanya Nicole Walkenbach) of the ASCE Geo-Institute Student National GeoShirt Competition, Minneapolis, MN, February 24-28, 2020
- International Peer Review Expert for the International Peer Review of the Civil Engineering Program at Tianjin University, China, November 7th to 8th, 2019
- Principal Investigator for the Sweet 16 Winner of the High Value Research (HVR) projects (Project Title: Development of a Load Distribution Program for Design and Load Rating of Buried Culverts and Pipes) in 2019, voted and selected by the AASHTO (American Association of State Highway and Transportation Officials) Research Advisory Committee Region 3
- The 2019 Henty E. Gould Award for Distinguished Service in Academic Advising, the School of Engineering, the University of Kansas, May 2019
- The ASCE Kansas City Section 2018 Engineer of the Year Award, April 2019
- Advisor for the first-place winner (Tanya Nicole Walkenbach) of the ASCE Geo-Institute Student National GeoShirt Competition, Philadelphia, PA, March 24-27, 2019
- Advisor for the third-place winner (Hao Liu and Ashley Underwood) the ASCE Geo-Institute Student National GeoPrediction Competition, Philadelphia, PA, March 24-27, 2019
- Advisor for Ph.D. student (Hao Liu) receiving the Geosynthetic Institute (GSI) Fellowship award after international competition of research proposals, 2019
- Invited lecturer to deliver the 18th IGS UK Invitation Lecture on Geosynthetic-reinforced Retaining Walls: Recent US Research and Developments, London, UK, IGS UK Chapter and ICE British Geotechnical Association, October 17, 2018
- Council member, International Geosynthetics Society, 2018 – 2022
- Member of the EU Academy of Sciences (EUAS), 2018
- Co-author of the paper receiving the Best Paper Award for the GeoShanghai International

- Conference 2018, Shanghai, China, May 27-29, 2018
- The State of the Practice Lecture on Geosynthetic-Stabilized Roads: From Mechanisms/Mechanics to Design at the 21st Annual George F. Sowers Symposium, Atlanta, Georgia, May 9th 2018
- 2018 Bellows Scholar Award, School of Engineering, the University of Kansas
- Advisor for the second-place winner (Tingyu Wu, a visiting Ph.D. student) of the ASCE Geo-Institute Student National GeoPoster Competition, Orlando, FL, March 9 2018
- Advisor for Ph.D. candidate (Mustapha Rahmaninezhad) receiving the Geosynthetic Institute (GSI) Fellowship award after international competition of research proposals, 2018
- 2017 ASCE Martin S. Kapp Foundation Engineering Award for his extraordinary contributions to the development of design and analysis methods for stone columns, column supported embankments, geosynthetic reinforced earth structures, and pile foundations which have greatly promoted their applications
- Corresponding author of the paper “Effect of Aggregate Uniformity on Pullout Resistance of Steel Strip Reinforcement”, the Design and Construction Group Practice Ready Paper Award for 2016, US Transportation Research Board
- First author, Best Presentation Award, the ASCE GeoStructures Congress, Phoenix, Arizona, 2016
- Advisor for Ph.D. candidate (Jun Guo) receiving the Geosynthetic Institute (GSI) Fellowship award after international competition of research proposals, 2016
- Honorary Professor, Qingdao University of Technology, China, 2016-2019
- 2015 Bellows Scholar Award, School of Engineering, the University of Kansas
- Advisor for Ph.D. candidate (Yan Jiang) receiving the Geosynthetic Institute (GSI) Fellowship award after international competition of research proposals, 2015
- Advisor for the second-place winner (Shaymaa Kadhim and Rand Khalil) of the ASCE Geo-Institute Student National GeoPrediction Competition, San Antonio, TX, February 2015
- Advisor for the second-place winner (Jun Guo and Xiaohui Sun) of the ASCE Geo-Institute Student National GeoVideo Competition, San Antonio, TX, February 2015
- Co-author, the Fumio Tatsuoka Best Paper Award, Transportation Infrastructure Geotechnology, Springer, 2014 (Leshchinsky, D., Kang, B., Han, J., and Ling H. (2014). “Framework for limit state design of geosynthetic-reinforced walls and slopes.” Transportation Infrastructure Geotechnology, 1(1), 129-164)
- 2014 Associate Editor of the Year Award, ASCE Journal of Geotechnical and Geoenvironmental Engineering
- International Geosynthetic Society (IGS) Award, September 24, 2014, the most prestigious award of IGS for extensive body of work encompassing geocell research and the development of well received design methodologies for paved and unpaved roads
- Elected to ASCE Fellow, September 11, 2014
- Co-author, Best Paper Award, GeoShanghai International Conference 2014, May 27, 2014
- 2014 Miller Scholar Award, School of Engineering, the University of Kansas
- Honorary Professor, Tongji University, 2014-2018
- Changjiang Distinguished Guest Professor, the Ministry of Education of China, 2012-2014
- Advisor for the second-place winner (Jun Guo, Xiaohui Sun, Jennifer Penfield, and Lee Crippen) of the ASCE Geo-Institute Student National GeoWall competition, San Diego, CA, March 2013
- Lecturer of the Seventh Sun Jun Lecture, China, October 25, 2012
- 2012 Miller Scholar Award, School of Engineering, the University of Kansas
- Recipient, 2011 Shamsher Prakash Annual Prize for Excellence in the Practice of Geotechnical Engineering, cited for advancements in geosynthetic-reinforced earth structures and ground improvement
- 2011 Miller Scholar Award, School of Engineering, the University of Kansas
- Recognition Award for Establishing GeoShanghai International Conference, 2010 GeoShanghai Organizing Committee, June 3, 2010
- 2009 Bellows Scholar Award, School of Engineering, the University of Kansas

- Honorary Professor, Wenzhou University, China, 2009 - 2012
- Campus Life Enrichment Committee (CLEC) Lecture “Geosynthetic Reinforcement and Recent Developments”, invited, Georgia Southern University, Statesboro, GA, Nov. 21, 2008
- 2008 Miller Scholar Award, School of Engineering, the University of Kansas
- Co-author, Best Paper Award, Soil Mechanics Section, Transportation Research Board, 2008
- Guest Professor, Huazhong University of Science and Technology, China, 2008 - 2011
- 2007 Miller Professional Development Award for Distinguished Service to the Engineering Profession, the University of Kansas
- Graduate Recruiting Award, Department of Civil, Environmental, and Architectural Engineering, the University of Kansas, 2007
- Big 12 Faculty Fellowship, the University of Kansas, 2007
- 2006 Bellows Scholar Award, School of Engineering, the University of Kansas
- Recognition Honor for Outstanding Contributions to the Organization of GeoShanghai International Conference 2006, Department of Geotechnical Engineering, Tongji University, China, June 2006
- Honorary Professor, Southeast University, China, 2006 - 2009
- Hua Ying Fellow, Southeast University, China, 2005
- Widener Provost’s Faculty Development Option Award, awarded on March 3, 2003
- The Japan Society for the Promotion of Science (JSPS) Short-Term Invitation Fellowship for Research in Japan, awarded by the Japan Society for the Promotion of Science and recommended by U.S. National Science Foundation, 2002.
- Invited Top Name Speaker, “Geosynthetic-Reinforced and Pile Supported Embankments”, ASCE/Pa
- DOT Geotechnical Seminar, Hershey, PA, April 14-16, 1999
- “Whatever It Takes” - Software Development Award, Tensar Earth Technologies, Inc., 1998
- Distinguished Future Leader in Geosynthetics, presented by the North American Geosynthetic Society and the Industrial Fabrics Association International, 1997.
- Finalist Paper for the General Award Competition at the Conference of Geosynthetics’97
- Finalist Paper for the Student Paper Award Competition at the Conference of Geosynthetics’97
- Co-author of the 2nd Prize Best Book “Soil Improvement and Underpinning”, awarded by Ministry of Construction, the People’s Republic of China, December 1996
- Outstanding Young Faculty Award in Tongji University, 1992
- Outstanding Young Faculty Award in Shanghai, 1992

CONFERENCE COMMITTEES

- Member of the Scientific Committee and Advisor of conference, 4th International Conference on Transportation Infrastructure and Sustainable Development (TISDIC 2023), Da Nang City, Vietnam, 25th to 27th, August 2023
- Chair, Geosynthetics Conference, Kansas City, Missouri, USA, February 5-8, 2023
- International Promotion Committee, the 12th International Conference on Geosynthetics, Roma, Italy, September 18-22, 2022
- Scientific Committee, EuroGeo7 European Conference on Geosynthetics, Warsaw, 19-22 September 2022
- Committee member, the 65th Annual Kansas Asphalt Paving Conference, Lawrence, Kansas, USA, December 2, 2021
- Chair, the 53rd Annual Kansas Geotechnical Conference, Lawrence, Kansas, USA, November 10, 2021
- International Advisory Committee, Deep Mixing 2021, online (planned for Gdansk, Portland), July 5-16, 2021
- Chair, Geosynthetics Conference, online, February 21-24, 2021
- Chair, the 52nd Annual Kansas Geotechnical Conference, Lawrence, Kansas, USA, November 12-13,

2020

- Chair, the 51st Annual Kansas Geotechnical Conference, Lawrence, Kansas, USA, November 14, 2019
- International Advisory Committee, International Conference on Transportation Infrastructure and Materials, Jinan, China, July 2-4, 2019
- Organizing Committee, the 9th International Association of Chinese Infrastructure Professionals (IACIP) Workshop, Washington, DC, January 13, 2019
- Chair, the 50th Annual Kansas Geotechnical Conference, Lawrence, November 10, 2018
- Scientific Committee, the 8th International Symposium on Environmental Vibration (ISEV) and Transportation Geodynamics, Changsha, China, October 27-28, 2018
- Conference Steering Committee, GeoShanghai International Conference 2018, May 27-30, 2018
- Chair, Workshop on Best Practices for Pavement Design Using Geosynthetics, the Transportation Research Board (TRB) 97th Annual Meeting, Washington DC, January 7, 2018
- Technical Advisory Committee, Grouting 2017, Honolulu, Hawaii USA, July 9-12, 2017
- Co-chair, Executive Committee, International Conference on Transportation Infrastructure and Materials, Qingdao, China, June 9-12, 2017
- Co-chair, International Workshop on Geosynthetic-reinforced Pile-supported Embankments, Shanghai, China, June 15-16, 2017
- Conference Advisor, the Geotechnical Frontiers Conference, organized by the ASCE Geo-Institute and the Industrial Fabrics Association International, Orlando, Florida, March 12-15, 2017
- Member, Planning Committee, 59th Annual Asphalt Paving Conference, Lawrence, Kansas, USA, 4 December 1, 2016
- Conference Chair, the 48th Geotechnical Engineering Conference, Lawrence, Kansas, 10 November, 2016
- Member, Scientific Committee, the 7th International Symposium on Environmental Vibration and Transportation Geodynamics, Hangzhou, China, October 28-30, 2016
- Member, International Scientific Committee, the 3rd International Conference on Transportation Geotechnics, Guimarães, Portugal, 4–7 September 2016
- Member, Executive Committee, 2016 International Conference on Transportation Infrastructure and Materials, Xian, China, July 16-18, 2016
- Member, International Advisory Committee, International Conference on Soft Ground Engineering (ICSGE2015), Singapore, December 3 to 4, 2015
- Member of Planning Committee, 58th Annual Asphalt Paving Conference, Lawrence, Kansas, 2 December, 2015
- Conference Chair, the 47th Geotechnical Engineering Conference, Lawrence, Kansas, 12 November, 2015
- Member, Organizing and Technical Committees, International Symposium on Systematic Approaches to Environmental Sustainability in Transportation, Fairbanks, Alaska, USA, August 2-5, 2015
- Member, International Advisory Committee, Deep Mixing 2015 - An International Symposium on Deep Mixing, San Francisco, USA, June 3 to 5, 2015
- Member, Planning Committee, 57th Annual Asphalt Paving Conference, Lawrence, Kansas, 4 December, 2014
- Conference Chair, the 46th Geotechnical Engineering Conference, Lawrence, Kansas, 13 November, 2014
- Member, Academic Committee, International Conference on Advances in Civil Engineering for Sustainable Development, 27-29 August 2014, at Suranaree University of Technology, Nakhon Ratchasima, Thailand
- Member of Steering Committee, Organizing Committee, and Technical Committee, GeoShanghai International Conference 2014, Shanghai, May 26 to 28, 2014
- Member of Planning Committee, 56th Annual Asphalt Paving Conference, Lawrence, Kansas, 5 December, 2013

- Conference Chair, the 45th Geotechnical Engineering Conference, Lawrence, Kansas, 14 November, 2013
- Co-organizer, Organizing Committee, International Symposium on Design and Practice of Geosynthetic-Reinforced Soil Structures (Bologna 2013), 14-16 October, 2013
- Member, Organizing Committee, the 1st International Symposium on Transportation Soil Engineering in Cold Regions, Xining, China, 10-11 October, 2013
- Session co-chair, Design and analysis of reinforced slopes, GeoCongress 2013, San Diego, CA, March 3 to 6, 2013
- Conference Chair, the 44th Geotechnical Engineering Conference, Lawrence, Kansas, 8 November, 2012
- Session co-chair, Sustainable Geotechniques, International Conference for Sustainable Design, Engineering, & Construction 2012, Fort Worth, TX, November 7 to 9, 2012
- Member, International Advisory Committee, International Conference on Ground Improvement and Ground Control, Wollongong, Australia, 30 October to 2 November 2012
- Member, Academic Committee, International Symposium on Geotechnical Engineering for High-speed Transportation Infrastructure, Hangzhou, 26 to 28 October 2012
- Member, International Advisory Committee, International Symposium on Coastal Engineering Geology (IS-Shanghai 2012), 20-21 September 2012
- Member, Scientific and Organizing Committees, the 2nd International Conference on Railway Engineering, 20 to 21 July 2012
- Member, Technical Committee, ICTPA 25th Annual Conference & The 9th Asia Pacific Transportation Development Conference, Chongqing, China, 29 June to 2 July, 2012
- Member, Technical Advisory Committee, the 4th International Conference on Grouting and Deep Mixing, New Orleans, Louisiana, USA, 15-18 February, 2012
- Conference Chair, the 43rd Geotechnical Engineering Conference, Lawrence, Kansas, 17 November, 2011
- Member, Technical Committee, the 24th ICTPA Annual Conference & NACGEA International Symposium on Geo-Trans, Los Angeles, USA, 27 to 29 May 2011
- Member, International Advisory Committee, the 3rd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation 2011 (GEDMAR 2011), Semarang, Central Java, Indonesia, 17-20 May, 2011
- Technical Chair and Proceedings Editor, ASCE Geo-Institute Annual Conference – GeoFrontiers 2011, Dallas, Texas, USA, March 13 to 16, 2011
- Conference Chair, the 42nd Geotechnical Engineering Conference, Lawrence, Kansas, November 17, 2010
- Member, International Academic Committee, International Symposium on Geomechanics and Geotechnics: From Micro to Macro, Tongji University, China, October 10 to 12, 2010
- Member, Organizing and Technical Committees, the Second GeoShanghai International Conference, Shanghai, China, June 3 to 5, 2010
- Chair, Planning Committee, 41st Kansas University Geotechnical Engineering Conference, Lawrence, Kansas, November 20, 2009
- Member of Technical Organizing Committee, GeoHunan International Conference on Challenges and Recent Advances in Pavement Technologies and Transportation Geotechnics, Hunan, China, August 3-6, 2009
- Chair of Session “New Technologies”, International Symposium on Deep Mixing & Admixture Stabilization, Okinawa, Japan, May 19-21, 2009
- Co-Chair and Editor-in-Chief of proceedings, the US-China Workshop on Ground Improvement Technologies, Orlando, Florida, March 14, 2009
- Member of International Advisory Committee, International Symposium on Lowland Technology, Busan, Korea, September 24 to 26, 2008
- Session Chair for Keynote Lectures, the 4th Asian Regional Conference on Geosynthetics,

- Shanghai, June 17 to 20, 2008
- Member of International Advisory Committee, Session Chair for Keynote Lectures, Invited Speaker, the 2nd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (GEDMAR08), Nanjing, China, May 28 to June 2, 2008
- Session Chair, *GeoCongress 2008: Geosustainability and Geohazard Mitigation*, ASCE, New Orleans, March 9 to 12, 2008
- Session Co-chair, the 5th International Symposium on Earth Reinforcement (IS Kyushu'07), Fukuoka, Japan, November 14-16, 2007
- Member of Technical Committee, the 1st International Symposium on Geotechnical Safety and Risk, Shanghai, China, October 18-19, 2007
- Member, International Advisory Committee, International Workshop on Constitutive Modelling – Development, Implementation, Evaluation, and Application, Hong Kong, China, January 12 to 13, 2007
- Session Co-Chair, the 8th International Geosynthetics Conference, 18-22 September, 2006, Yokohama, Japan
- Member of International Advisory Committee and Invited Lecture/Session Chair, International Symposium on Lowland Technology, Saga, Japan, September 14 to 16, 2006
- Member of Organizing Committee and Co-Chair of Technical Committee, Secretary General, GeoShanghai International Conference, Shanghai, China, June 6-8, 2006
- Member of Advisory Committee, 50th Annual Asphalt Paving Conference, 2006
- Member of Organizing Committee, the 2nd World Forum of Chinese Scholars in Geotechnical Engineering, Hohai University, Nanjing, P.R. China, August 20-21, 2005
- Moderator, the 49th Annual Kansas Asphalt Paving Conference, Nov. 3, 2005
- Member of Organizing Committee and Session Chair, the 1st World Forum of Chinese Scholars in Geotechnical Engineering, Tongji University, Shanghai, P.R. China, August 21-23, 2003
- Chair of Sessions “Use of Wastes in Construction” and “Landfill Covers and Liners”, the 18th International Conference on Solid Waste Technology and Management, Philadelphia, USA, March 23-26, 2003
- Chair of Session “Advances in Land Disposal and Remediation”, the Seventeenth International Conference on Solid Waste Technology and Management, Philadelphia, October 21-24, 2001
- Member, Local Organizing Committee, International Conference on Site Characterization, Atlanta, March 1998
- Soft Soil Session Chair, First Young Asian Geotechnical Engineers Conference, AIT, Bangkok, Thailand, January 7 – January 11, 1991

PROFESSIONAL COMMITTEES

- Treasurer, International Geosynthetics Society, 2022-2026
- Governor, Board of Governors, ASCE Geo-Institute, 2020 – and Treasurer, 2021-2022
- Board Member, International Geosynthetics Society - North America Chapter, 2019-2020
- Council Member, International Geosynthetics Society, 2018-2022
- Member of System Performance of Geotechnical Structures Committee, International Society of Soil Mechanics and Geotechnical Engineering, 2017 –
- Corresponding Member of Ground Improvement Committee, International Society of Soil Mechanics and Geotechnical Engineering, 2017 –
- Committee Member, Kansas City Geo-Institute Chapter, 2017 -
- Panelist for the Environmental Sustainability Panel, National Science Foundation, March, 2015
- Member of the Transportation Earthworks Committee and Research Coordinator, Transportation Research Board, 2015 – 2020; Chair, 2020 -
- Member of the Culverts and Hydraulic Structures Committee, Transportation Research Board, 2015

- Member of Public Relations Committee, International Society of Soil Mechanics and Geotechnical Engineering, 2012 - 2017
- Vice President, October 2010 – 2015; President, 2016; Past President, 2017 - , International Association of Chinese Infrastructure Professionals
- Advisory Committee Member, North American Geotechnical Engineers Association, 2010 –
- Member, NCHRP Project Panel E24-31, AASHTO LRFD Design-Construction Specifications of Shallow Foundations for Highway and Bridge Structures, 2006 - 2009
- Panel member, NSF CMS (Civil and Mechanical Systems) Major Research Instrumentation (MRI) Review Panel, 2006
- Member, TRB A2K07 Committee on Geosynthetics, 2003 – 2012
- Member, ASCE Geo-Institute Geosynthetic Committee, 2004 – (secretary, 2016 - 2017)
- Member, ASCE Geo-Institute Soil Improvement Committee, 2004 – (vice chair, 2016 - 2017; chair, 2017 - 2021)
- Member, Advisory Board/Editorial Panel, International Journal of Geomechanics, ASCE, 2000-
- Executive Member, Segmental Retaining Wall (SRW) Standards Committee, the National Concrete Masonry Association (NCMA), 2001 – 2004
- Member, Advisory Board, Center for Geotechnical Composite Systems, Virginia Tech, 2001
- Member, Soil Improvement Committee, the Chinese Society of Soil Mechanics and Foundation Eng., 1990-1993

EDITORIAL BOARDS

- Editorial Board Member, International Journal of Geosynthetics and Ground Engineering, December 2021 -
- Associate Editor, Geotextiles and Geomembranes, November 2021 -
- Specialty Chief Editor, Geotechnical Engineering Section, Frontiers in Built Environment, April 2021 -
- Handling Editor, Transportation Research Record: Journal of the Transportation Research Board, 2019 –
- Guest Editor for a Special Issue on Recent Advances in Geomaterial Evaluation and Applications in Civil Infrastructure Projects in ASCE Journal of Materials in Civil Engineering, 2018-2019
- Guest Editor for a Special Issue on Geosynthetics for Transportation and Environmental Applications, Geotextiles and Geomembranes, Elsevier, 2018-2019
- Guest Editor for a Special Issue on Sustainable Transportation Materials in ASCE Journal of Materials in Civil Engineering, 2017-2018
- Guest Editor for a Special Issue on Geosynthetic-Reinforced Pile-Supported Embankments, Geosynthetics International, 2017-2019
- Guest Editor for a Special Issue on Ground Improvement with Geosynthetics – the Sustainability Triple Bottom Line, Ground Improvement, ICE, 2017-2018
- Guest Editor for a Special Issue on Geosynthetics for Transportation Applications, Geotextiles and Geomembranes, Elsevier, 2014-2015
- Associate Editor, the Editorial Board of Journal of Materials in Civil Engineering, ASCE, 2014 -
- Editorial Board Member, Geotechnical Research, Institution of Civil Engineers (ICE), 2013 -
- Editorial Board Member, Ground Improvement, Institution of Civil Engineers (ICE), 2013 -
- Editorial Board Member, Transportation Infrastructure Geotechnology, Springer, 2013 -
- Editorial Board Member, Transportation Geotechnics, Elsevier, 2013 -
- Editorial Panel Member, Geosynthetics International, Institution of Civil Engineers (ICE), 2013 -
- Editorial Board Member, Journal of GeoEngineering, Taiwan Geotechnical Society, 2012 -
- Co-Editor, Geotechnical Engineering Journal, Southeast Asia Geotechnical Society, 2010
- Editorial Board Member, Frontiers of Structural and Civil Engineering, Springer, 2009 –
- Member, the 10th Editorial Board of Chinese Journal of Geotechnical Engineering, 2008 –

- Member, Editorial Board, Geomechanics and Geoengineering: An International Journal, 2005 –
- Member, Editorial Board, International Journal of Geomechanics, ASCE, 2002 -
- Associate Editor/Member, the Editorial Board of Journal of Geotechnical and Geoenvironmental Engineering, ASCE, 2002 –
- Member, Editorial Board of Chinese Journal of Soil Improvement, 1990-1993

SELECTED GRANTS (totally 90 grants with a total budget of 9.2 million US dollars)

- State of the Practice of Design and Installation of Stone Columns and Rigid Inclusions When Used as a Deep Foundation Equivalent, PI, funded by ADSC, 2022-2022
- Experimental Study of Lightweight Cellular Fill for MSE Walls and Buried Pipes, PI, funded by CEMATRIX and MixOnSite, 2022-2024
- A study of geosynthetic interlayers for asphalt overlays to reduce reflective cracking, PI, funded by Kansas Department of Transportation, 2021-2023
- Development of a geotechnical asset management system, Co-PI, funded by Kansas Department of Transportation, 2021-2023
- Pullout resistance of reinforcement in lightweight cellular concrete fill, PI, funded by Kansas Department of Transportation, 2020-2022
- Experimental Study of Lightweight Cellular Fill for MSE Walls, PI, funded by CEMATRIX and MixOnSite, 2020-2022
- MSE Wall Survey of Corrosion Progress - Joint Project with KSU, co-PI, funded by Kansas Department of Transportation, 2020-2022
- Evaluation of Lightweight Cellular Concrete Fill as Backfill, co-PI, funded by Kansas Department of Transportation, 2020-2022
- Development of Design Method for H2Ri Wicking Fabric in Pavement Structures: Phase II, PI, funded by Tencate, 2019-2021
- Experimental Evaluation of Performance of A GeoPave System, PI, funded by Presto, 2019-2020
- Experimental Evaluation of Performance of Concrete-filled Geocell over Subgrade under Static Loading, PI, funded by Presto, 2019-2020
- Internal Reinforcement of Backfill behind Bridge Abutments to Mitigate Approach Slab Distresses, PI, funded by Kansas Department of Transportation and Terracon Consultants, Inc., 2018-2021
- Field monitoring of Wicking Geotextile for Moisture Reduction in Pavements, PI, funded by Kansas Department of Transportation and Terracon Consultants, Inc., 2018-2021
- Evaluation of Cement Modified Soil with Microcracking, PI, funded by Kansas Department of Transportation and Terracon Consultants, Inc., 2017-2019
- Investigation of Variations in Corrosion Potential in Mechanically Stabilized Earth Backfill due to Migration of Fines, co-PI, funded by Kansas Department of Transportation, 2017-2018
- Grouting Effects on Performance of Lined, Corroded Steel Pipes, PI, funded by Kansas Department of Transportation, 2016-2019
- Large Box Study on Granular Base Options for Portland Cement Concrete Pavements, PI, funded by Kansas Department of Transportation, 2016-2018
- Use of Lime Kiln Dust for Treated Subgrades, PI, funded by Kansas Department of Transportation, 2016-2017
- Geoweb Reinforcement of Ballasted Railway Prisms PI, funded by the Presto Geosystems, 2016-2017
- Development of a Load Distribution Program for Design and Load Rating of Buried Culverts and Pipes, PI, funded by Kansas Department of Transportation, 2015-2017
- Practical Design Guidelines for Replacement of Deficient Bridges with Low-Water Stream Crossings in the Rural Midwest, Co-PI, funded by Kansas Department of Transportation, 2015-2016
- Defining the Boundary Conditions for Composite Behavior of Geosynthetic Reinforced Soil (GRS) Structures, Co-PI, funded by National Cooperative Highway Research Program (NCHRP), 2014-

2018

- Testing Aggregate Backfill for Corrosion Potential, Co-PI, funded by Kansas Department of Transportation, 2014-2016
- Experimental Evaluation of Performance of A New GeoTerra System, PI, funded by the Presto Geosystems
- Field monitoring of MSE walls to investigate secondary reinforcement effects, PI, funded by Kansas Department of Transportation, 2013-2015
- Establishing a design procedure for buried steel-reinforced HDPE plastic pipes – A field study (Phase II), PI, funded by Kansas Department of Transportation, 2013-2015
- Pullout resistance of MSE wall strip reinforcement in uniform aggregate, PI, funded by Kansas Department of Transportation, 2013-2015
- Development of Design Method for H2Ri Wicking Fabric in Pavement Structures, PI, funded by Tencate, 2013-2017
- Experimental Evaluation of Performance of GeoTerra Systems, PI, funded by the Presto Geosystems
- Pavement Deterioration Due to Horizontal Fracturing and Wind Farm Development in Kansas, Co-PI, funded by Kansas Department of Transportation, 2013-2014
- Calibrating Mechanistic-empirical Pavement Design Guide for Kansas, PI, funded by Kansas Department of Transportation, 2012-2014
- Resilient Behavior of TriAX Geogrid-reinforced Working Platforms over Weak Subgrade, PI, funded by Tensar International, 2012-2013
- Development of Resistance Factors for Piles from PDA Data, Co-PI, funded by Kansas Department of Transportation, 2012-2013
- Vertical Reinforcement Spacing for MSEW and RSS Structures, PI, funded by Maccaferri through the Collin Group, 2012 to 2015
- Protection of Underground Pipes and Utility Lines using Geosynthetics, PI, funded by the University of Kansas, 2011-2012
- Improved Load Rating Factors for Low-fill Box Structures, PI, funded by Kansas Department of Transportation, 2011-2012
- Onsite use of Recycled Asphalt Pavement Materials with Geocells to Reconstruct Damaged Pavements by Heavy Trucks, PI, funded by Mid-America Transportation Research Center, 2010-2011
- Establishing a Design Procedure for Buried Steel-Reinforced HDPE Plastic Pipes, PI, funded by Kansas Department of Transportation, 2010-2012
- Geotechnical Solutions for Soil Improvement, Rapid Embankment Construction, and Stabilization of the Pavement Working Platform, funded by Strategic Highway Research Program (SHRP 2 Project R02), Phase II, Co-PI, 2008-2011
- Experimental and Micromechanical Studies on Soil Arching under Static Loading, PI, funded by KU GRF, 2009 to 2010
- Capacity of Scour Damaged Bridges (Part II), Co-PI, funded by Kansas Department of Transportation, 2009-2010
- Substituting Geosynthetics For Shotcrete Facing on Soil Nailed Walls, Co-PI, funded by Kansas Department of Transportation, 2009 to 2010
- Experimental Study of Innovative Geogrid Products for Subgrade Improvement, PI, funded by Tensar International, 2009
- Numerical Analyses of Rammed Pier Systems, PI, funded by Geopier Foundations, 2008-2009
- Development of a Mechanistic Response Model for Geocell-reinforced Aggregate Bases, PI, funded by Geosynthetics Research Institute, 2008-2009
- Slope Reinforcement using Helical Anchors, Co-PI, funded by Earth Contact Products, 2008
- Feasibility Study for Reducing Flowability of Vacuum Tower Bottoms using Aggregate, PI, funded by Frontier El Dorado Refining Company, Kansas, 2008
- Laboratory Study of Characteristics of Recycled Asphalt Pavements (RAP) in Kansas, PI, funded

- by Kansas Department of Transportation, 2008-2010
- Lateral Load Capacity of Drilled Shaft Short Rock Sockets, Co-PI, funded by Kansas Department of Transportation, 2008-2009
- Tolerable Strains for HMA Overlays over Concrete Pavements, PI, funded by Kansas Department of Transportation, 2007-2009
- Evaluation of Data for MSE Walls with Drilled Shafts, Co-PI, funded by Kansas Department of Transportation, 2007-2009
- Capacity of Pile-Founded Bridges Under Scoured Conditions, Co-PI, funded by Kansas Department of Transportation, 2007-2009
- Evaluation of Performance of Geocell-Reinforced Bases, PI, Kansas Department of Transportation and Kansas University Transportation Research Institute, 2007-2008
- REU Supplement: U.S.-Japan Cooperative Science: Use of Reinforcement-Drainage Geosynthetics in Embankment/Wall Construction with Marginal Backfill, PI, funded by National Science Foundation, Award No. 0442159, 2006-2007
- Development of Recommended Skin Friction Design Values Design Values for Drilled Shafts in Intermediate Geomaterials based on O-cell Tests, PI, funded by Kansas Department of Transportation, 2006 – 2008
- Development of a Rapid Test to Determine Moisture Sensitivity of HMA (SuperPave) Mixtures, PI, funded by Kansas Department of Transportation, 2006 – 2008
- Development of Design Guidelines for Laterally Loaded Drilled Shafts in MSE Walls, Co-PI, funded by Kansas Department of Transportation, 2006 – 2008
- U.S.-Japan Cooperative Science: Use of Reinforcement-Drainage Geosynthetics in Embankment/Wall Construction with Marginal Backfill, PI, funded by National Science Foundation, Award No.: 0355430, 2004 – 2007
- Numerical Analysis of Column-Supported Embankments, PI, funded by the Collin Group, 2005-2007
- Investigation of Geosynthetic-Soil Confinement using Asphalt Pavement Analyzer, PI, funded by Tensar Earth Technologies, Inc., 2006-2008
- Mechanistic Analysis of Geocell-Reinforced Pavement Foundations, PI, funded by KU Transportation Research Institute, 2006-2008
- Numerical Study of Geosynthetic-Aggregate Interaction under Wheel Loading, PI, funded by KU Transportation Research Institute, 2006-2008
- Development of A Predictive Geomechanical Model for Recovery of Coalbed Methane, PI, funded by KU Energy Research Center, 2005-2006
- Experimental and Numerical Studies of Reinforcement-Drainage Geosynthetics in Embankment/Wall Construction with Marginal Backfill, PI, funded by KU General Research Fund, 2005-2006
- Geosynthetic-Reinforced Pile Supported Embankments, Co-PI, funded by FHWA, 2003-2004.
- Laboratory Study on Consolidation Characteristics of Deep Soil Mixing Foundations, PI, the Provost's Grant, Widener University, 2004-2005
- Widener Faculty Development Option Award, PI, Fall, 2003
- Acquisition of A Load Actuator System for Enhancing Civil Engineering Research and Research Training in An Undergraduate Institute (MRI), PI, funded by National Science Foundation, Award No. CMS-0216149, 2002-2004
- Development of Design Charts for Geosynthetically Reinforced Embankments on Deep Mixed Columns, Principal Investigator, funded by the FHWA National Deep Mixing Program, 2002-2004
- Analyses and Design of Multi-Tier Mechanically Stabilized Wall Systems, Co-PI, funded by Delaware Transportation Institute, 2002-2003
- Testing of Additives for Waterproofing Concrete, Co-PI, funded by Concure Products, 2002.
- Widener University Provost Grant, PI, 2002 – 2003
- Widener University Faculty Development Option Grant, PI, 2002

SUPERVISED STUDENTS AND VISITING SCHOLARS

Ph.D. Students

1. Jie Huang, August 2004 to December 2007, dissertation “Coupled Mechanical and Hydraulic Modeling of Geosynthetic-reinforced Column-supported Embankments”, currently Associate Professor at the University of Texas at San Antonio, USA
2. Anil Bhandari, August 2007 to May 2010, with honor, dissertation “Micromechanical Analysis of Geosynthetic-Soil Interaction under Cyclic Loading”, currently Senior Geotechnical Engineer at Bechtel Corporation, USA
3. Xiaoming Yang, August 2006 to August 2010, with honor, dissertation “Numerical Analyses of Geocell-reinforced Granular Soils under Static and Repeated Loads”, currently Assistant Professor at Georgia Southern University, USA
4. Sanat Pokharel, August 2006 to October 2010, dissertation “Experimental Study on Geocell-reinforced Bases under Static and Dynamic Loading”, currently Principal Engineer for Stratum Logics in Edmonton, Alberta, Canada
5. Cheng Lin, May 2008 to May 2012, with honor, dissertation “Evaluation of Lateral Behavior of Pile-supported Bridges under Scoured Conditions”, currently Assistant Professor at the University of Victoria, Canada
6. Jitendra K. Thakur, January 2011 to May 2013, dissertation “Geocell-reinforced Unpaved and Paved Roads with Recycled Asphalt Pavement (RAP) Bases: Experimental Study and Damage Model Development”, Currently Senior Associate / Geotechnical Department Manager at Terracon, USA
7. Deep Khatri, January 2012 to May 2014, dissertation “Laboratory and Field Performance of Buried Steel-Reinforced High Density Polyethylene (SRHDPE) Pipes in a Ditch Condition under a Shallow Cover”, currently Senior Geotechnical Engineer at United Consulting Group, Ltd., USA
8. Xiaohui Sun, August 2011 to May 2015, with honor, dissertation “Resilient Behavior and Permanent Deformations of Triaxial Geogrid Stabilized Bases over Weak Subgrade”, currently Assistant Professor at Shenzhen University, China
9. Ryan Corey, January 2009 to August 2015, dissertation “Protection of Underground Pipelines using Geosynthetics – An Numerical Study”, currently Vice President at RTE Technologies, USA
10. Fei Wang, January 2014 to May 2016, with honor, dissertation “Analyzing Field Performance of Steel-Reinforced High Density Polyethylene (SRHDPE) Pipes during Installation and Under Traffic Loading”, currently Assistant Professor at Tarleton State University, USA
11. Yan Jiang, August 2013 to May 2016, dissertation “Evaluating the Performance of Hybrid Geosynthetic-Reinforced Retaining Walls”, currently Project Geotechnical Engineer at Terracon, USA
12. Shaymaa Kadhim, August 2012 to May 2016, co-advised with Prof. Robert L. Parsons, dissertation “Stability Analysis of Geotextile Encased Sand Column”, currently Lecturer at the University of Technology- Baghdad, Iraq
13. Jun Guo, January 2015 to August 2017 (defended on August 24), dissertation “Evaluation and Design of Wicking Geotextile for Pavement Applications”, currently Assistant Professor at Shenzhen University, China
14. Jamal Ismail Kakrasul, August 2013 to January 2018 (defended on January 16), dissertation “Geosynthetic-Reinforced Retaining Walls with Limited Fill Space under Static Footing Loading”, currently Lecturer at Soran University, Iraq
15. Madan Neupane, January 2015 to May 2018 (defended on May 10), dissertation “Load Distribution of Geosynthetic Stabilized Layers over Weak Subgrade”, currently Geotechnical Engineer at CDM Smith, USA
16. S. Mustapha Rahmaninezhad, August 2016 to May 2019 (defended on May 15th), with honor,

- dissertation “Geosynthetic-Reinforced Retaining Walls with Flexible Facing Subjected to Footing Loading”, currently Geotechnical Engineer at Terracon, USA
17. Mahdi Al-Naddaf, August 2017 to June 2019 (defended on June 10th), with honor, dissertation “Investigation of Soil Arching under Different Modes of Soil Movement and Surface Loading”, currently Lecturer and Associate Chair in Department of Civil Engineering at the University of Kerbala, Iraq
 18. Saif Mohammed Jawad, January 2014 to November 2019 (defended on November 15th) with honors, dissertation “Evaluating Behavior of Laterally Loaded Piles within MSE Walls under Static and Cyclic Loading by Model Tests”, currently Lecturer at the University of Baghdad, Iraq
 19. George A. Tannoury, January 2014 to December 2019 (defended on December 3rd), dissertation “Evaluations of Cement-Modified Soil (CMS) with Microcracking and Its Effects on Flexible Pavement Performance”, currently Principal / Office Manager at Terracon, USA
 20. Tanya Walkenbach, August 2016 to May 2020 (defended on March 24th), dissertation “Evaluation of recycled aggregate base courses stabilized by geosynthetics”, currently Project Engineer at Golder Associates Inc., USA
 21. Hao Liu, August 2018 to December 2021 (defended on December 7th, with honor), dissertation “Mitigation of Seasonal Temperature Change-Induced Problems for Integral Bridge Abutments”
 22. Md. Wasif Zaman, January 2021 to December 2023 (expected)
 23. Yuqiu Ye, August 2021 to August 2024 (expected)
 24. Turki Alsharari, August 2021 to August 2024 (expected)

M.S. Students

1. Yuze Zhang, August 2005 to August 2007, thesis “Investigation of Geosynthetic-soil Confinement Using Asphalt Pavement Analyzer”, currently Project Geotechnical Engineer / Project Manager · American Geotechnical & Environmental Services, Inc., USA
2. Harihar Shiwakoti, August 2006 to December 2007, thesis “Development of A Rapid Test to Determine Moisture Sensitivity of HMA (SuperPave) Mixtures”, currently Engineer Senior Supervisor Pavement at Virginia Department of Transportation, USA
3. Ryan Corey, August 2006 to December 2008, currently Vice President at RTE Technologies, USA
4. Ashwani Gautam, August 2007 to May 2009, thesis “Tolerable Strains for HMA Overlays over Concrete Pavements”
5. Yu Qian, August 2008 to December 2009, thesis “Experimental Study on Triangular Aperture Geogrid- reinforced Bases over Weak Subgrade under Cyclic Loading”, currently Assistant Professor at the University of South Carolina, USA
6. Subhash Thakur, August 2008 May 2010, thesis “Laboratory Evaluation of Physical Characteristics of Recycled Asphalt Pavement (RAP) in Kansas”, Currently Senior Research Scientist at Vertex Pharmaceuticals, USA
7. Jitendra Thakur, August 2009 to January 2011, thesis “Experimental Study of Geocell-reinforced Recycled Asphalt Pavement (RAP) Bases under Static and Cyclic Loads”, Currently Senior Associate / Geotechnical Department Manager at Terracon, USA
8. Bhagaban Acharya, August 2010 to December 2011, thesis “Experimental Study of Geocell-reinforced Flexible Pavements with Recycled Asphalt Pavement (RAP) Bases under Cyclic Loads”, currently Senior Geotechnical Engineer at ATC Williams, Australia
9. Deep Khatri, August 2010 to May 2012, thesis “Experimental Evaluation of the Behavior of Steel-Reinforced High Density Polyethylene (SRHDPE) Pipes”, currently Senior Geotechnical Engineer at United Consulting Group, Ltd., USA
10. Raju Acharya, August 2011 to December 2012, thesis “Improved Load Distribution for Load Rating of Low-fill Box Structures”, currently Geotechnical Engineer at ETS, Inc., USA
11. Omar Ismael (Omar K. Al-Kubaisi), August 2012 to May 2014, thesis “Evaluating the Behavior of Laterally Loaded Piles under a Scoured Condition by Model Tests”, currently Postgraduate Researcher,

The University of Sydney

12. Patrick Schaub, August 2010 to May 2014, project “Cranberry Bend River Mitigation Project”, Geotechnical Engineer at US Army Corps of Engineers, USA
13. Jun Guo, August 2012 to December 2014, thesis “Experimental Studies on Geocells and Mat Systems for Stabilization of Unpaved Shoulders and Temporary Roads”, currently Assistant Professor at Shenzhen University, China
14. Mehari Weldu, August 2014 to December 2015, thesis “Pullout Resistance of MSE Wall Steel Strip Reinforcement in Uniform Aggregate”, Civil Engineer, Maccaferri, Inc., USA
15. Ghaith Abdulrasool, August 2014 to December 2016, thesis “Effect of Column Stiffness on Consolidation Behavior of Stone Column-Treated Clay”, currently Geotechnical Engineer, Design Division, State Company for Oil Projects, Iraqi Ministry of Oil, Baghdad, Iraq
16. Wessam Mohammed, January 2014 to December 2016, thesis “Factors Influencing Performance of A Laterally Loaded Pile with An MSE Wall System”, currently Sci-Tek, USA
17. Mahdi Al-Naddaf, January 2015 to May 2017 (defended on March 10, 2017), thesis “Investigation of Soil Arching Stability Under Static and Cyclic Surface Loading Using Trapdoor Model Tests”, currently Lecturer and Associate Chair in Department of Civil Engineering at the University of Kerbala, Iraq
18. Hao Yuan, September 2015 to August 2017 (defended on July 25, 2017), thesis “Effectiveness of Wicking Geotextile in Mitigating Freeze-thaw Problems of Aggregate Bases with Fines”, currently Chang’an University
19. Zexia Li, January 2017 to August 2018 (defended on August 31, 2018), thesis “Performance Evaluation of Virgin and Recycled Aggregate Bases Stabilized with Geotextiles”, currently Reinforced Earth, Inc., USA
20. Md Rejwanur “Rahi” Rahman, August 2019 to December 2020 (defended on November 19, 2020), thesis “Experimental Evaluation of Performance of Concrete-Infilled Geocell Slabs over Subgrade under Static Loading”
21. Yuqiu Ye, August 2020 to August 2021 (defended on August 17, 2021), thesis “Experimental Study on Lightweight Cellular Concrete Backfill and Its Interaction with Reinforcement”

Visiting Scholars

1. Dr. Sadik Oztoprak, Istanbul University, Turkey, July 2006 to March 2007
2. Dr. Jungjo Yoo, KGI, South Korea, August 2006 to July 2007
3. Dr. Jianfeng Chen, Tongji University, China, August 2007 to February 2008
4. Dr. Fayun Liang, Tongji University, China, October 2007 to October 2008
5. Lei Chen, Ph.D. student, Southeast University, China, September 2007 to August 2008
6. Fei Wang, Ph.D. student, Southeast University, China, September 2007 to August 2008
7. Yong Li, Ph.D. student, Shandong University, China, October 2007 to October 2008
8. Yanli Dong, Ph.D. student, Taiyuan University of Technology, China, August 2008 to March 2010
9. Prof. Xianzhi Huang, Engineering College of Shanxi University, China, February 2009 to February 2010
10. Dr. Fen Li, Wuhan University of Technology, China, August 2009 to August 2010
11. Yan Jiang, Ph.D. student, Tianjin University, China, October 2009 to October 2010
12. Dr. Shanhong Liu, Chongqing Jiaotong University, China, February 2010 to February 2011
13. Dr. Gang Jiang, Nanjing University of Technology, China, March 2010 to March 2011
14. Dr. Chengzhi Xiao, Hebei University of Technology, China, August 2010 to August 2011
15. Prof. Wei Shi, Qingdao Technological University, China, September 2010 to March 2011
16. Prof. Songyu Liu, Southeast University, China, December 2010 to January 2011
17. Dr. Walid El Kamash, Jazan University, Kingdom of Saudi Arabia, June to July 2011
18. Zhen Zhang, Ph.D. student, Tongji University, China, August 2011 to September 2013
19. Dr. Jingshan Jiang, Jiangsu Transportation Research Institute, China, October 2011 to February 2013

20. Dr. Xiaoming Liu, Hunan University, China, August 2012 to August 2013
21. Dr. Zhigang Cao, Zhejiang University, China, September 2012 to September 2013
22. Weihua Li, Deputy General Manager, Heibei Research Institute of Construction & Geotechnical Investigation Co., LTD, China, November 2012 to November 2013
23. Hongguang Jiang, Ph.D. student, Zhejiang University, China, December 2012 to December 2013
24. Dr. Huayang Lei, Tianjin University, China, February 2013 to February 2014
25. Prof. Wuyu Zhang, Qinghai University, China, August 2013 to February 2014
26. Dr. Chunyong Luo, Shanghai Jiaotong University, China, August 2013 to August 2014
27. Dr. Hongguang Zhang, Chang'An University, China, February 2014 to March 2015
28. Mustapha Rahmaninezhad, Iran University of Science and Technology, September 2013 to August 2015
29. Meixiang Gu, Hunan University, China, August 2014 to August 2016
30. Dr. Junli Gao, Shanghai University, China, August 2014 to August 2015
31. Dan Chang, Beijing Jiaotong University, China, September 2014 to September 2015
32. Dr. Hongbo Zhang, Shandong University, China, November 2014 to November 2015
33. Dr. Fulin Li, China University of Mining and Technology, China, February 2015 to February 2016
34. Gampanart Sukmak, Suranaree University of Technology, Thailand, April 2015 to August 2015
35. Yanxia Ma, Qinghai University, China, August 2015 to August 2016
36. Lijun Chang, Qinghai University, China, August 2015 to August 2016
37. Dr. Haifeng Huo, Civil Aviation University of China, Tianjin, China, September 2015 to June 2016
38. Dr. Walid El Kamash, Suez Canal University, Egypt, October 31 2015 to January 31 2016
39. Prof. Wuyu Zhang, Qinghai University, China, January 26, 2016 to July 25, 2016
40. Panpan Shen, Tongji University, China, February 12, 2016 to February 2018
41. Dr. Ping Hu, Jinan University, China, May 2016 to May 2017
42. Prof. Xiuguang Song, Shandong University, China, October 2016 to October 2017
43. Dr. Rui Rui, Wuhan University of Technology, China, September 2017 to November 2017
44. Tingyu Wu, Zhejiang University, China, September 2017 to September 2018
45. Dr. Yuan Cheng, Zhengzhou University, China, September 2018 to September 2019
46. Yuqiu Ye, Ph.D. student, Wuhan University of Technology, China, November 2019 to August 2020
47. Fengjuan Tao, Ph.D. student, Tongji University, China, September 2018 to December 2020
48. Chen Chen, Ph.D. student, Central South University, China, October 2019 to December 2020
49. Yuxiao Meng, Ph.D. student, Wuhan University, China, October 2019 to December 2020

PUBLICATIONS (Google Citations: 13081 and H-index: 56; ORCID: 0000-0003-3137-733X)

Peer-Reviewed Journal Papers

1. Giroud, J.P., Han, J., Tutumluer, E., and Dobie, M. (2022). "The use of geosynthetics in roads." *Geosynthetics International*, in press.
2. Cui, F., Xiao, C., Han, J., Gao, S., and Tian, W. (2022). "Performance of laboratory geogrid-reinforced retaining walls under freeze-thaw cycles." *Geosynthetics International*, 29(1), February, 81-98.
3. Mohammed, W. and Han, J.* (2022). "Laterally-loaded pile-MSE wall system performance under different design configurations." *Geosynthetics International*, 29(2), 116-136.
4. Ye, Y., Han, J.*, Liu, H., Rachford, S.M., Parsons, R.L., Dolton, B., and O'Reilly, M. (2022). "Pullout resistance of geogrid and steel reinforcement embedded in lightweight cellular concrete backfill." *Geotextiles and Geomembranes*, 50(3), 432-443.
5. Meng, X., Han, J.*, Jiang, Q., and Liu, R. (2022). "Experimental investigation of geogrid-reinforced sand cushions for rock sheds against rockfall impact." *Transportation Geotechnics*, 33, March, 100717.
6. Liu, H., Han, J.*, Jawad, S., and Parsons, R.L. (2022). "Effects of traffic loading on seasonal

- temperature change-induced problems for integral bridges and mitigation with geosynthetic reinforcement.” *ASCE International Journal of Geomechanics*, 22(6): 04022082-1 to 13.
7. Liu, H., Parsons, R.L., Han, J., Ye, Y., and O’Reilly, M. (2022). “Field pullout tests of steel strips in lightweight cellular concrete backfill.” Technical note, *ASCE Journal of Geotechnical and Geoenvironmental Engineering*, 148(5): 06022004-1 to 6.
 8. Liu, H., Han, J.*, and Parsons, R.L. (2022). “Settlement and horizontal earth pressure behind model integral bridge abutment induced by simulated seasonal temperature change.” *ASCE Journal of Geotechnical and Geoenvironmental Engineering*, 148(6): 04022043-1 to 13.
 9. Jiang, Y., Han, J.*, and Lei, H. (2022). “Simplified method for consolidation degree of deep mixed column foundations.” *International Journal of Geomechanics*, 22(8): 04022114-1 to 8.
 10. Jawad, S. and Han, J. (2022). “Closure of Numerical analysis of laterally-loaded single piles within mechanically-stabilized earth walls.” *ASCE International Journal of Geomechanics*, in press.
 11. Liu, H., Han, J., and Parsons, R.L. (2022). “Numerical analysis of geosynthetics to mitigate seasonal temperature change-induced problems for integral bridge abutment.” *Acta Geotechnica*, <https://doi.org/10.1007/s11440-022-01614-5>.
 12. Zaman, M.W., Han, J.*, and Zhang, X. (2022). “Evaluating wettability of geotextiles with contact angles.” *Geotextiles and Geomembranes*, 50, 825-833.
 13. Sun, X., Chen, Z., Han, J., Fei, J., Hong, C., Zhang, W., and Peng, Y. (2022). “Theoretical analysis on reduction of load-induced excess pore water pressures in roads with geogrids.” *International Journal of Geomechanics*, ASCE, 22(10), [https://doi.org/10.1061/\(ASCE\)GM.1943-5622.0002518](https://doi.org/10.1061/(ASCE)GM.1943-5622.0002518).
 14. Gao, S., Xiao, C., Han, J., and Wang, Z. (2022). “Lateral displacements of geosynthetic-reinforced soil walls in a tiered configuration.” *ASCE Journal of Geotechnical and Geoenvironmental Engineering*, 148(9): 04022066-1 to 20.
 15. Liu, H., Han, J., and Parsons, R.L. (2022). “Effects of seasonal temperature change-induced abutment movements on backfill surface settlements behind integral bridge abutments – Numerical analysis.” *Computers and Geotechnics*, 149, 104884-1 to 19.
 16. You, Z., Han, J., and Wang, H. (2022). “Advances and innovations in pavement technologies and geomechanics.” *ASCE International Journal of Geomechanics*, 22(10).
 17. Kakrasul, J.I., Parsons, R.L., and Han, J. (2022). “Use of lime kiln dust to improve properties of pavement subgrades.” *International Journal of Geosynthetics and Ground Engineering*, 8, 49.
 18. Kadhim, S., Parsons, R.L., and Han, J. (2022). “Vertical stability of geotextile-encased sand columns without and with surrounding soil.” *Geosynthetics International*, 29(4), 426-441.
 19. Liu, H., Han, J., and Parsons, R.L. (2022). “Integral bridge abutments in response to seasonal temperature changes: State of knowledge and recent advances.” *Frontiers in Built Environment*, published 15 August, <https://doi.org/10.3389/fbuil.2022.916782>.
 20. Liu, H., Han, J., Al-Naddaf, M., Parsons, R.L., and Kakrasul, J.I. (2022). “Field monitoring of wicking geotextile to reduce soil moisture under a concrete pavement subjected to precipitations and temperature variations.” *Geotextiles and Geomembranes*, 50(5), 1004-1019.
 21. Liu, H., Han, J.*, and Parsons, R.L. (2022). “Geosynthetic reinforcement of backfill behind integral abutments to mitigate approach slab distresses.” *Engineering Structures*, 269, 114772-1 to 12.
 22. Zhang, Z., Tao, F.-J., Han, J., Ye, G.-B., Chen, B.-N., and Xu, C. (2021). “Arching development in transparent soil during multiple trapdoor movement and surface footing loading.” *International Journal of Geomechanics*, ASCE, 21(3): 04020262.
 23. Zhang, Z., Tao, F.-J., Han, J., Ye, G.-B., Chen, B.-N., and Liu, L. (2021). “Influence of surface footing loading on soil arching above multiple buried structures in transparent sand.” *Canadian Journal of Civil Engineering*, 48(2), 124-133, <https://doi.org/10.1139/cjce-2019-0352>.
 24. Jawad, S. and Han, J. (2021). “Numerical analysis of laterally-loaded single piles within mechanically-stabilized earth walls.” *ASCE International Journal of Geomechanics*, 21(5), 0402103-1 to 14.
 25. Sun, X., Guo, J., Han, J., and Guo, K. (2021). “Stress analysis of geosynthetic access mat systems over weak subgrade.” *Computers and Geotechnics*, 134, 104071-1 to 9.

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Peer-Reviewed or Invited Conference Papers

1. Zaman, M.W. and Han, J. (2023). “Investigation of moisture reduction in sandy soils using geotextiles.” Submitted for possible publication in Geosynthetics 2023.
2. Ye, Y., Han, J., and Rui, R. (2023). “Feasibility evaluation of lightweight aggregate to improve performance of load transfer platforms in geosynthetic-reinforced embankments.” Submitted for possible publication in Geosynthetics 2023.
3. Jawad, S. and Han, J. (2023). “Recent advances in laterally-loaded piles within mechanically-stabilized earth walls.” Submitted for possible publication at the International Conference on Geosynthetics, Roma.
4. Liu, H., Parsons, R.L., and Han, J. (2023). “Evaluation of lightweight cellular concrete over aggregates as backfill material for mechanically stabilized earth walls: Numerical Analysis.” Submitted for possible publication at GeoCongress 2023.
5. Zaman, M.W. and Han, J. (2023). “Sand-woven geotextile interface shear strengths in different shearing directions.” Submitted for possible publication at GeoCongress 2023.
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1. Han, J. (2022). "Resilient Roads: Chemical and Geosynthetic Methods for Roadway Stabilization." *GeoStrata*, April/May, 58-65.

2. Han, J. (2021). "Geosynthetic-reinforced column-supported embankments: Improving practice with better theory." *Geosynthetics*, August.
3. Han, J. and Giroud, J.P. (2016). "Field evaluation of the performance of unpaved roads incorporating geosynthetics - Implementation." *Geosynthetics*, June/July, 25-33.
4. Han, J. and Giroud, J.P. (2016). "Field evaluation of the performance of unpaved roads incorporating geosynthetics - Planning." *Geosynthetics*, April/May, 27-41.
5. Giroud, J.P. and Han, J. (2016). "Mechanisms governing the performance of unpaved roads incorporating geosynthetics." *Geosynthetics*, February/March, 23-33.
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2. Han, J., Puppala, A.J., Shen, S.L., Oztoprak, S., and Huang, J. (editors) (2014). *Ground Improvement and Geosynthetics*, ASCE Geotechnical Special Publication.
3. Ling, H.I., Gottardi, G., Cazzuffi, D., Han, J., and Tatsuoka, F. (editors) (2013). *Design and Practice of Geosynthetic-Reinforced Soil Structures*. Honoring Research Achievement of Professor Dov Leshchinsky, 14-16 October, 2013, Bologna, Italy.
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5. Puppala, A., Huang, J., Han, J., and Hoyos, L.R. (editors) (2010). *Ground Improvement and Geosynthetics*, ASCE Geotechnical Special Publication No. 207, 380p.
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6. Guo, J., Han, J., and Zhang, X. (2018). Evaluation and Design of Wicking Geotextile for Pavement Applications. Final Report, submitted to Tencate Geosynthetics Americas.
7. Han, J., Rahmaninezhad, S.M., Parsons, R.L., and Wang, F. (2018). Software for Load Distribution on Low-Fill Box Culverts: User's Manual, Report Number: K-TRAN: KU-16-5.
8. Schrock, S.D., Udaipurwala, M., Han, J., and Parsons, R.L. (2017). Pavement Deterioration Due to Horizontal Hydraulic Fracturing and Wind Farm Development in Kansas. Report No. KS-16-18.
9. Han, J. and Neupane, M. (2017). Experimental Study on Geocell Stabilization of Ballasted Railway. Final Report, submitted to the Presto Geosystems.
10. Han, J., Neupane, M., and Parsons, R.L. (2017). Static Load Testing on Tensar Mechanically Stabilized Layers. Final Report, submitted to Tensar International Limited.
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12. Han, J., Corey, R., Khatri, R.K., and Parsons, R.L. (2016). Geosynthetic Reinforcement to Protect Underground Pipes against Damage from Construction and Traffic. Final Report, the Mid-America Transportation Research Center.
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- Pavement Design Guide for Kansas. Final Report, Report Number: KS-14-17, Publication Date: April 2015.
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 26. Pokharel, S., Parsons, R.L., Pierson, M., Han, J., and Willems, I. (2011). Use of Flexible Facing for Soil Nail Walls. Final Report No. KU-10-06.
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 33. Han, J. and Huang, J. (2005). Development of Design Charts for Geosynthetically Reinforced Embankments on Deep Mixed Columns. Final Report, submitted to FHWA and the National Deep Mixing Program, May, 197p.
 34. Collin, J.G., Han, J., and Huang, J. (2005). Numerical Analysis of Column-Supported Embankments. Final Report, submitted to FHWA, July.
 35. Han, J. and Sheth, A. (2003). Development of design Charts for Geosynthetically Reinforced Embankments on Deep Mixed Columns – Interim Report II: Two-Dimensional Analyses and Results, submitted to the National Deep Mixing Program, November, 100p.
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 38. Han, J. (2003). Development of design Charts for Geosynthetically Reinforced Embankments on Deep Mixed Columns – Interim Report I: Literature Review, submitted to the National Deep Mixing Program, January, 234p.
 39. Han, J. (2001). A New Design Method for Geosynthetic-Reinforced Unpaved Roads, Tensar

- Earth Technologies, Inc., Internal Report, March.
40. Han, J. (1999). Design Guidelines for Mesa Retaining Wall Systems, Tensar Earth Technologies, Inc.
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 42. Han, J., Ye, G. B. (1995). "Design of foundations on double soil layer systems." Funded by the Shanghai Building and Construction Research Foundation, Final Report, in Chinese.
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 44. Ye, S. L. and Han, J. (1989). "Experimental and theoretical studies of stone columns in soft soils." Funded by the Shanghai Building and Construction Research Foundation, Final Report, in Chinese.

Developed Software

1. Design Software for Geosynthetic Reinforced Foundations - DIMENSIONTM.
2. Design Software for Subgrade Improvement and Base Reinforcement – SPECTRAPAVETM.
3. Design Software for Surficial Slope Stability – SSS.

Thesis and Dissertation

1. An Experimental and Analytical Study of Fiber Reinforced Polymer Piles in Sand and Pile-Sand Interactions, Ph.D. Dissertation, the Georgia Institute of Technology, USA, 1997.
2. Experimental and Theoretical Studies of Stone Columns in Soft Clays, MS Thesis, Tongji University, China, 1989.

KEYNOTE AND INVITED LECTURES

Keynote Lectures

1. Experimentally and Mechanistically Quantifying Benefits of Geosynthetics in Improved Road Performance, EuroGeo7, Warsaw, Poland, September 5 to 7, 2022
2. Mitigating Freeze-thaw Problems in Pavements with Wicking Geotextile, 5th International Symposium on Transportation Soil Engineering in Cold Regions (TRANSOILCOLD2021), Zhuhai, China, December 10th to 12th, 2021
3. Geosynthetic-Reinforced Column-Supported Embankments –Bridging Theory with Practice, the 3rd R.M. Koerner Lecture, the GeoNashville 2021 Conference, Nashville, TN, November 4, 2021
4. Recent Advances in the Use of Geosynthetics to Enhance Sustainability of Roadways, GEOWEEK2021, GeoPUCP, October 27, 2021
5. Geosynthetic-Reinforced Column-Supported Embankments –Bridging Theory with Practice, the 3rd R.M. Koerner Lecture, the 46th Deep Foundation Institute Annual Conference, Las Vegas, NV, October 14, 2021
6. State of the Practice of Rigid Inclusions, the 16th Chinese Conference on Ground Improvement, May 9, 2021
7. Geosynthetic-Reinforced Column-Supported Embankments –Bridging Theory with Practice, the 3rd R.M. Koerner Lecture, Geosynthetics 2021 Conference, February 23, 2021
8. Limit Equilibrium Analysis and Design of Geosynthetic-reinforced Fill Walls under Special Conditions, Indian Geotechnical Conference 2020, virtual presentation, December 19, 2020
9. Recent Advances in Design of Geosynthetic-Stabilized Unpaved and Paved Roads, the 4th Pan American Conference on Geosynthetics, GeoAmericas 2020, Virtual Conference, October 22-29, 2020

10. Ground Improvement Overview and Recent Developments, International Symposium on Geotechnical Challenges of Mega Projects, Civil Engineering Department of University of Kerbala, Iraqi Scientific Society of Soil Mechanics and Foundation Engineering, and Technical Committee (TC-305) of ISSMGE, August 23-24, 2020
11. Improving Geotechnical Practice and Sustainability through Innovations, the 3rd International Conference on Transportation Infrastructure and Sustainable Development (TISDIC 2019), Da Nang, Vietnam, August 31st, 2019
12. Improving Geotechnical Practice and Sustainability through Innovations, the 13th Chinese Conference on Soil Mechanics and Geotechnical Engineering, Tianjin, China, July 20, 2019
13. Behavior and Design of Laterally-Loaded Piles in Mechanically-Stabilized Earth Walls, the Chinese Conference on Soils and Foundations, Xining, China, July 11, 2019
14. Progressive Soil Arching Development under Different Ground Movement and Surface Loading, Southeast Symposium of Recent Developments in Geotechnics, Nanjing, China, July 8, 2019
15. Rehabilitation of Corroded Steel Pipes under Roadways by Sliplining, International Conference on Transportation Infrastructure and Materials, Jinan, China, July 3, 2019
16. ASCE China Scan Tour - The State of Ground Improvement in China, Kansas City Geotechnical Seminar, Kansas City, January 25, 2019
17. Recent Developments in Geosynthetic-reinforced Column-supported Embankments, Kansas City Geotechnical Seminar, Kansas City, January 25, 2019
18. Sustainable Technologies for Replacing and Rehabilitating Corroded Steel Drainage Pipes in Ground, the 9th International Conference on Pipelines and Trenchless Technology, Ningbo, China, October 24 to 27, 2018.
19. Recent Advances in Ground Improvement Technologies in the US, the 15th Chinese Conference on Ground Improvement, Wuhan, China, October 19 to 21, 2018
20. Geosynthetic-reinforced Retaining Walls: Recent US Research and Developments, the 18th IGS UK Invitation Lecture at the Institution of Civil Engineers, London, UK, October 17, 2018
21. Steel-reinforced HDPE Plastic Pipes in Roadways, the 3rd International Conference on Transportation Infrastructure and Materials: Smart and Sustainable Transportation Infrastructure, Tianjin, China, June 1-4, 2018
22. Recent developments of ground improvement in the US, the Second China-US Workshop on Ground Improvement Technologies, Shanghai, China, May 27th, 2018
23. Geosynthetic-Stabilized Roads: Mechanics to Design, the State of the Practice Lecture at the 21st Annual George F. Sowers Symposium, Atlanta, Georgia, May 9th, 2018
24. Wicking Geotextile to Mitigate Freeze-Thaw Potential of Base Courses in Cold Regions, the Second Geo-Institute-Kazakhstan Geotechnical Society Joint Workshop on TC305 "Geotechnical Infrastructure for Megacities and New Capitals", Orlando, FL, USA, March 7th, 2018
25. Improving Roadway Performance by Wicking Geotextile to Reduce Soil Moisture, 66th Annual Geotechnical Engineering Conference, organized by the Minnesota Geotechnical Society, University of Minnesota, February 23, 2018
26. Behavior of Laterally Loaded Piles in Mechanically Stabilized Earth Walls, the Geo-Omaha Conference 2018, 35th Annual Geotechnical Conference, organized by ASCE Nebraska Section - Geotechnical Group, Omaha, NE, February 9, 2018
27. Dynamic Soil Arching in Column-Supported Embankments, the 3rd International Conference on Ground Improvement and Ground Control, Hangzhou, China, October 27-29, 2017
28. Geosynthetic-Reinforced Pile-Supported Embankments: Load Transfer Mechanisms, 2017 GeoMEast International Congress & Exhibition, Sharm El-Sheik, Egypt, July 15-20, 2017
29. Field Tests and Numerical Analysis of Geosynthetic-Reinforced Retaining Walls with Secondary Reinforcement, the 6th Chinese Conference on Geosynthetic Reinforcement, Shanghai, China, June 15-18, 2017
30. Historical Development of Geosynthetic-Reinforced Pile-Supported Embankments and Recent Research on Dynamic Soil Arching, International Workshop on Geosynthetic-reinforced Pile-

- supported Embankments, Shanghai, China, June 15-16, 2017
31. Recent Advances in Geocell-Stabilized Base Courses for Unpaved and Paved Roads, International Conference on Geotechniques for Infrastructure Projects, Thiruvananthapuram, India, February 27 to 28, 2017
 32. Recent Advances in Geosynthetic Stabilization of Roads: Terminologies, Products, and Mechanisms, the 6th Asian Regional Conference on Geosynthetics, November 8-11, New Delhi, India.
 33. Mechanisms to Field Evaluation of Unpaved Roads Stabilized by Geosynthetics, Tensar International Meeting, Lima, Peru, July 19 – 24, 2016
 34. Recent Advances in Geosynthetic-Reinforced Retaining Walls for Highway Applications, Transportation Research Congress, Beijing, China, June 7, 2016
 35. Invited Tour Lecture - Geosynthetic-reinforced Earth Structures and Stabilized Roads: Principles and Applications, Xi'an December 9, Chongqing, December 11, Fuzhou, December 15, Shanghai, China, December 16, 2015
 36. Recent Advances in the Use of Geosynthetics to Enhance Sustainability of Roadways, the Chinese National Civil Engineering Forum for Graduate Students - NCEF 2015, December 12, 2015
 37. Invited Tour Lecture - Understanding and Harnessing the Stabilisation Effect of Geogrids in Pavement Designs, Auckland, New Zealand, September 21, Melbourne, September 22, Sydney, September 23, and Brisbane, Australia, September 24, 2015
 38. Recent Advances and Issues in Geosynthetic-Reinforced Roads, the 5th Chinese Conference on Geosynthetic Reinforcement, Chengdu, China, May 22-25, 2015
 39. Behavior of Laterally Loaded Piles in Mechanically-Stabilized Earth (MSE) Walls, Geotechnical Group, Los Angeles Section – ASCE, November 19, 2014
 40. Recent Advances in the Use of Geosynthetics to Enhance Sustainability of Roadways, International Conference on Advances in Civil Engineering for Sustainable Development, Nakhon Ratchasima, Thailand, 27-29 August, 2014
 41. Use of Geosynthetics for Performance Enhancement of Earth Structures in Cold Regions, the 1st International Symposium on Transportation Soil Engineering in Cold Regions, Xining, China, 10-11 October, 2013
 42. Recent Advances in Column Technologies to Improve Soft Foundations, International Conference on Ground Improvement and Ground Control, Wollongong, Australia, 30 October to 2 November 2012
 43. Geosynthetic Reinforcement for Railway and Highway Construction. International Symposium on Geotechnical Engineering for High-speed Transportation Infrastructure, Hangzhou, China, 26 to 28 October, 2012
 44. Performance of Laterally-loaded Piles in an MSE Wall, Sun Jun Lecture, Shanghai, China, October 25, 2012
 45. Giroud-Han Design Method – Development and Calibration, Tensar International Meeting, Cancun, Mexico, August 20 to 25, 2012
 46. Recent Research on Triaxial Geogrid Reinforced-Unpaved Roads and Construction Platforms, Tensar International Meeting, Cancun, Mexico, August 20 to 25, 2012
 47. Geocell-reinforced RAP Pavements - A New and Sustainable Solution, International Symposium on Safe, Energy-efficient, and Environmentally Friendly Transportation Infrastructure, Inner Mongolian, China, July 20-22, 2012
 48. Geocell-reinforced RAP Pavements - A New and Sustainable Solution, 55th Kansas Asphalt Paving Conference, Lawrence, Kansas, December 1, 2011
 49. Geosynthetic Reinforcement for Roadway Systems, PAVCO Geosynthetics Congress and Lecture Series, October 26 (at Medellin, Colombia), 27 (at Bogota), and 28 (at Cali), 2011
 50. Exploring Geocell Technology for Roadway Base Reinforcement, International Symposium on Pavement and Geotechnical Engineering for Transportation, Nanchang, China, June 5, 2011
 51. Design of Geosynthetic-reinforced Earth Retaining Structures and Roadways, International Workshop on Practical Solutions to Geotechnical Problems in Pavement Engineering, Shanghai,

- China, June 2 to 4, 2011
52. Reinforcement Innovations for Structural Pavement Design, the 1st PRS International Conference on Geocell Reinforcement, Herzliya, Israel, March 15, 2010
 53. Geosynthetic Reinforcement Technologies and Recent Developments, the Tenth Chinese Symposium on Ground Improvement, Nanjing, China, November 3, 2008
 54. US Education in Geotechnical Engineering, invited, the Second Chinese Education Symposium on Soil Mechanics, Nanjing, China, November 2, 2008
 55. Geosynthetic-Reinforced Column-Supported Embankments, International Geotechnical Engineering Seminar, Tianjing University, China, June 5, 2008
 56. Issues Related to Design of Geosynthetics-reinforced Unpaved Roads, the Tensar International Meeting, Lima, Peru, October 19, 2006
 57. Latest Research on Geogrid Confinement for Pavement Applications, the Tensar International Meeting, Lima, Peru, October 19, 2006
 58. Design Issues in Geosynthetic-Reinforced Column-Supported Embankments, Spring Seminar of the Seattle ASCE Geotechnical Group, May 20, 2006
 59. Recent Development of Geosynthetic-Reinforced Column-Supported Embankments, the 23rd Annual Geotechnical Seminar – Geo-Omaha 2006, February 17, 2006
 60. Design of Geosynthetic-reinforced Roads, Tensar International Conference, Cancun, Mexico, October 14, 2003
 61. Design of Geosynthetic-reinforced Pile-supported Embankments, Tensar International Conference, Cancun, Mexico, October 14, 2003
 62. Geosynthetics-reinforced Pile-supported Embankments, the 1st World Forum of Chinese Scholars in Geotechnical Engineering, Tongji University, August 22, 2003
 63. Design and Construction of Embankments on Geosynthetic Reinforced Platforms Supported by Piles, ASCE/Pa DOT Geotechnical Seminar, Hershey, PA, April 14-16, 1999
 64. Stone Column Technologies, the 3rd Chinese Soil Improvement Conference, Qengwangdao, P.R. China, 1992
 65. Underpinning, co-author, the 3rd Chinese Soil Improvement Conference, Qengwangdao, P.R. China, 1992

Invited Lectures/Presentations

1. Geosynthetic-Reinforced Column-Supported Embankments –Bridging Theory with Practice, the 3rd R.M. Koerner Lecture, Virtual Presentation, Hohai University, China, September 15, 2022
2. Designing with Geosynthetics for Improvement of Roads, Indonesian Chapter of International Geosynthetics Society, Webinar, July 28, 2022
3. Use of Geocells to Improve Performance of Railway Track Beds, Industrial Fabrics Association International and Geosynthetic Materials Association, Webinar, March 1st, 2022
4. Designing with Geosynthetics for Unpaved Roads, Australasian Chapter of International Geosynthetics Society, Webinar, Virtual, January 18th, 2022
5. Design of Geosynthetic-Reinforced Column-Supported Embankments on Soft Soils: A Unified Approach, International Symposium of Soft Ground and Smart Geotechnology, organized by the Hong Kong Polytechnic University, Virtual, January 7th, 2022
6. Use of Wicking Geotextile to Mitigate Moisture-Related Pavement Problems, 65th Annual Asphalt Paving Conference, the University of Kansas, December 2nd, 2021
7. Designing with Geosynthetics for Unpaved Roads, International Geosynthetics Society North American Chapter, Webinar, Virtual, August 19th, 2021
8. Geosynthetics for Roadway Applications, International Geosynthetics Society South African Chapter, Webinar, Virtual, July 7th, 2021
9. Geosynthetics for Soil Reinforcement Applications, IGS Geosynthetics Education Training Program, hosted by the IGS South African Chapter, Virtual, July 5-6, 2021

10. Geosynthetic-Reinforced Column-Supported Embankments: A Unified Approach, Southwest Geotechnical Engineering Conference, Virtual, June 22-24, 2021
11. State of the Practice of Rigid Inclusions, presented at the ASCE Soil Improvement Committee, March 20, 2021
12. Mechanical Stabilization of Non-geologic Aggregates, the 100th Annual Meeting of Transportation Research Board, Virtual Meeting, January 27, 2021
13. Transportation Earthworks: A Perspective at the TRB Centennial, the 100th Annual Meeting of Transportation Research Board, Virtual Meeting, January 26, 2021
14. Interactions between Geosynthetic-Reinforced Fill Walls and Laterally-Loaded Piles, Virtual Presentation, International Geosynthetics Society Iran Chapter, Virtual Presentation, December 21, 2020
15. Behavior of Laterally-Loaded Piles under Scoured Conditions, ISSMGE TC213 Workshop on Scour and Erosion, Virtual Presentation, December 16, 2020
16. Recent Advances in Research of Geosynthetic-Reinforced Retaining Walls, International Virtual Forum on Civil Engineering Teaching and Research, Hubei University of Technology, China, November 27, 2020
17. Geosynthetics for Soil Reinforcement Applications, IGS Geosynthetics Education Training Program, hosted by the IGS Chinese Taipei Chapter, Virtual, November 21, 2020
18. Unified Limit Equilibrium Design of Geosynthetic-Reinforced Fill Walls and Slopes, the 10th Chinese Geosynthetics Conference - the International Forum, Chengdu, China, September 26, 2020
19. Recent Advances in Geosynthetic-Reinforced Column-Supported Embankments, International Webinar on Recent Advances in Geotechnical Engineering Research & Practice, Indian Institute of Technology (IIT) Patna, July 01 to 10, 2020.
20. Educational Series: Pavement/Transportation Applications, the Geosynthetics 2020 Conference: Case Histories, North Charleston, SC, March 8-10, 2020
21. What should we do with badly corroded drainage steel pipes under roadways? Guest Lecture, Kansas Contractors Association 97th Annual Convention, Kansas City, January 22-24, 2020
22. ASCE China Scan Tour - The State of Ground Improvement in China, the University of South Carolina, September 13, 2019
23. Progressive Soil Arching Development under Different Ground Movement and Surface Loading, Hong Kong University, September 9th, 2019
24. Recent Advances in Column Technologies to Improve Soft Soils, Hong Kong Polytech University, China, September 6th, 2019
25. Improving Roadway Performance by Wicking Geotextile to Reduce Soil Moisture, Thuy Loi University, Hanoi, Vietnam, September 4th, 2019
26. Recent Advances in Column Technologies to Improve Soft Soils, Hydraulic Construction Institute, Hanoi, Vietnam, September 4th, 2019
27. Behavior and Design of Laterally Loaded Piles in Mechanically Stabilized Earth (MSE) Walls, National University of Civil Engineering, Hanoi, Vietnam, September 3rd, 2019
28. Behavior and Design of Laterally-Loaded Piles in Mechanically-Stabilized Earth Walls, Zhejiang University Ningbao College, July 15, 2019
29. General Guides to Publish Well-written Technical Papers, webinar, International Association of Transportation Infrastructure Professional, March 22, 2019
30. Software for Load Distribution on Low-Fill Box Culverts, Kansas Department of Transportation Research Council Meeting, Topeka, Kansas, February 15, 2019
31. Recent Advances in Column Technologies to Improve Soft Soils, Bechtel, Houston, February 13, 2019
32. Educational Series: Pavement/Transportation Applications, the Geosynthetics 2019 Conference, Houston, Texas, February 10-13, 2019
33. Software for Load Distribution on Low-Fill Box Culverts, the Culverts, Buried Bridges, and Hydraulic Structures Committee, the 98th Annual Transportation Research Board Meeting,

- Washington DC, January 13–17, 2019
34. Recent Developments of Geosynthetic-reinforced Column-supported Embankments, Zhejiang University Ningbo Institute of Technology, Ningbo, China, December 29, 2018
 35. Soil Arching under Different Modes of Ground Movement and Surface Loading, Shenzhen University, China, December 27, 2018
 36. Recent Developments in Geosynthetic-Stabilized Roads: Introduction and Mechanisms, Webinar, the International Geosynthetics Society - North America and Geosynthetic Materials Association, December 6, 2018
 37. ASCE China Scan Tour - The State of Ground Improvement in China, the 50th Kansas Geotechnical Engineering Conference, November 13, 2018
 38. Advanced Geosynthetic Products and Applications, Jinguangshan University, June 13, 2018
 39. Behavior of Laterally Loaded Piles in Mechanically Stabilized Earth (MSE) Walls, Huadong Jiaotong University, June 12, 2018
 40. Geosynthetic-Stabilized Roads: From Mechanisms to Applications, Wuhan University, June 10, 2018
 41. Behavior of Laterally Loaded Piles in Mechanically Stabilized Earth (MSE) Walls, Hubei University of Technology, June 9, 2018
 42. Soil Arching under Surface Loading, Tongji University, China, May 31, 2018
 43. Behavior of Laterally Loaded Piles in Mechanically Stabilized Earth (MSE) Walls, School of Civil and Environmental Engineering, the Georgia Institute of Technology, May 8, 2018
 44. Geosynthetic Reinforcement and Stabilization: Research and Applications, Zhejiang University of Technology, China. March 22, 2018
 45. Geosynthetic-reinforced Earth Structures and Stabilized Roads: Principles and Applications, Huadong Engineering Corporation Limited, Hangzhou, China, March 22, 2018
 46. Geosynthetic-reinforced Earth Structures and Stabilized Roads: Principles and Applications, Anhui Transport Consulting & Design Institute Co., Ltd., Hefei, China, March 20, 2018
 47. Design of Geocells for Roadway Applications, Workshop on Best Practices for Pavement Design Using Geosynthetics, the Transportation Research Board (TRB) 97th Annual Meeting, Washington DC, January 7–11, 2018
 48. Behavior of Laterally Loaded Piles in Mechanically Stabilized Earth (MSE) Walls, the Egyptian Geotechnical Society, Cairo, Egypt, July 20, 2017
 49. Recent Advances in Column Technologies to Improve Soft Soils, the Egyptian Geotechnical Society, Cairo, Egypt, July 20, 2017
 50. Geosynthetic Stabilization of Paved and Unpaved Roads, 2017 GeoMEast International Congress & Exhibition, Sharm El-Sheik, Egypt, July 15 to 20, 2017
 51. Recent Advances in Column Technologies to Improve Soft Soils, Suez Canal University, Egypt, July 13, 2017
 52. Behavior of Laterally Loaded Piles in Mechanically Stabilized Earth (MSE) Walls, Zhejiang University of Technology, China, June 29, 2017
 53. Geosynthetic-Reinforced Pile-Supported Embankments under Dynamic Loading, Hunan University, China, May 23, 2017
 54. Recent Advances in Column Technologies to Improve Soft Soils, GEOSS Evening Seminar, the Geotechnical Society of Singapore (GEOSS) jointly with the NTU-JTC I3C & Centre for Soft Ground Engineering, National University of Singapore, April 6, 2017
 55. New Geotechnical Testing and Instrumentation Techniques, Professional Development Series, the University of Kansas, March 27, 2017
 56. Soil Arching Behavior under Dynamic Surface Loading, the 7th International Symposium on Environmental Vibration and Transportation Geodynamics, Hangzhou, China, October 28-30, 2016
 57. Soil Arching in Earth Structures, 2016 International Conference on Transportation Infrastructure and Materials, Xian, China, July 16-18, 2016
 58. Path to Success, Shanghai Jiaotong University, Shanghai, China, July 12, 2016

59. Geosynthetic-reinforced Earth Structures and Stabilized Roads: Principles and Applications, Beijing Municipal Design Institute, Beijing, China, July 6, 2016
60. Behavior of Laterally Loaded Piles in An MSE Wall, Shandong University, Jinan, Shandong, China, June 27, 2016
61. Recent Developments of Geosynthetic-reinforced Column-supported Embankments, Zhejiang University of Technology, Hangzhou, China, June 24, 2016
62. Exploratory Study on Wicking Geotextile for Soil Moisture Reduction, Zhejiang University, Zhejiang, China, June 23, 2016
63. Geosynthetic-reinforced Earth Structures and Stabilized Roads: Principles and Applications, Zhejiang Transportation Planning and Design Institute, Hangzhou, China, June 21, 2016
64. Recent Developments of Geosynthetic-reinforced Column-supported Embankments, Ningbo University, Ningbo, China, June 20, 2016
65. Field Instrumentation and Evaluation of Geosynthetic-reinforced Retaining Walls with Secondary Reinforcement, Hohai University, Nanjing, China, June 17, 2016
66. Exploratory Study on Wicking Geotextile for Soil Moisture Reduction, Nanjing University, Nanjing, China, June 16, 2016
67. Geosynthetic Reinforcement: Research and Applications, Nanjing Institute of Technology, Nanjing, China, June 15, 2016
68. Path to Success, Southeast University, Nanjing, China, June 15, 2016
69. Ground Improvement Technologies and Applications, Qinghai University, Xining, China, June 13, 2016
70. Behavior of Laterally Loaded Piles in an MSE Wall, Suranaree University of Technology, Thailand, December 21, 2015
71. Geosynthetic Reinforcement for Roadway Systems, Yunnan Transportation Planning and Design Institute, December 17, 2015
72. Behavior of Laterally Loaded Piles in an MSE Wall, Xi'an University of Science and Technology, China, December 10, 2015
73. Recent Developments of Geosynthetic-reinforced Column-supported Embankments, Shanghai University, December 8, 2015
74. Engineering Mechanics and Practice in Design of Geosynthetic-Reinforced Roads, 2015 ASCE Engineering Mechanics Institute Conference, Stanford University, CA, June 16 – 19, 2015
75. Use of Geosynthetics for Accelerated Construction, KU CEAE Professional Development Series, February 9, 2015
76. Exploratory Study on Wicking Fabrics for Soil Moisture Reduction, Tongji University, Department of Geotechnical Engineering, China, December 30, 2014
77. Experimental Evaluation of Behavior of Steel-reinforced HDPE Pipes, Shanghai Jiaotong University, Shanghai, China, December 29, 2014
78. Behavior of Laterally Loaded Piles in an MSE Wall, Tongji University, Department of Railway Engineering, Shanghai, China, December 25, 2014
79. Exploratory Study on Wicking Fabrics for Soil Moisture Reduction, Southeast University, China, December 22, 2014
80. Behavior of Laterally Loaded Piles in Mechanically-Stabilized Earth (MSE) Walls, the ASCE Geo-Institute Los Angeles Section Geotechnical Group seminar, November 19, 2014
81. Geogrid Protection of A Steel Reinforced HDPE Pipe Subjected to A Penetration Load, the 10th International Conference on Geosynthetics, Berlin, Germany, September 22, 2014
82. Repetitive Static Plate Load Tests on Triaxial Geogrid-Stabilized Base Course over Weak Subgrade, the 10th International Conference on Geosynthetics, Berlin, Germany, September 22, 2014
83. Evaluation of lateral behavior of pile-supported bridges under scoured conditions, Hohai University, China, June 26, 2014
84. Geosynthetic reinforcement - Research and Applications, North University of China, China, June 19, 2014

85. Evaluation of Lateral Behavior of Pile-supported Bridges under Scoured Conditions, Tianjin University, China, June 16, 2014
86. Recent Developments of Geosynthetic-reinforced Column-supported Embankments, Hebei University of Technology, China, June 16, 2014
87. Behavior of Laterally Loaded Piles in An MSE Wall, Southwest University, China, June 10, 2014
88. Recent Developments of Geosynthetic-reinforced Column-supported Embankments, Hebei Institute of Construction and Geotechnical Investigation, China, June 4, 2014
89. Geosynthetic Reinforcement - Research and Applications, Yunnan University, China, May 30, 2014
90. A Few Thoughts on Education, Research, and Collaboration, GeoShanghai International Conference, Shanghai, May 28, 2014
91. Ground Improvement Research for Railway Applications, Track Substructure Workshop, U.S. Department of Transportation Federal Railroad Administration Transportation Technology Center, Pueblo, Colorado, March 31, 2014
92. FCE Public Lecture “Recent Developments of Geosynthetic-Reinforced Column-Supported Embankments over Soft Soils”, the Hong Kong Polytechnic University, March 21, 2014
93. Evaluation of Lateral Behavior of Pile-supported Bridges under Scoured Conditions, Hong Kong University of Science and Technology, March 20, 2014
94. Mechanistic-Empirical Pavement Design Guide (MEPDG) Calibration in Kansas – Preliminary Results, 57th Annual Asphalt Paving Conference, Lawrence, Kansas, December 5, 2013
95. A Summary of Research on Geocell-Reinforced Base Courses, International Symposium on Design and Practice of Geosynthetic-Reinforced Soil Structures, October 14-16, 2013, Bologna, Italy
96. Geosynthetic Reinforcement – Research and Applications, Qinghai University, China, October 9, 2013
97. Recent developments of geosynthetic-reinforced column-supported embankments, the University of Illinois at Chicago, June 19, 2013
98. Recent developments of geosynthetic-reinforced column-supported embankments, Hebei Institute of Geotechnical Engineering, Shijiazhuang, China, May 31, 2013
99. Behavior of laterally loaded piles in an MSE wall, Beijing Jiaotong University, Beijing, China, May 29, 2013
100. Evaluation of lateral behavior of pile-supported bridges under scoured conditions, Huanan University of Technology, Guangzhou, China, May 27, 2013
101. Geocell-reinforced RAP pavements – a new and sustainable solution, Huanan University of Technology, Guangzhou, China, May 27, 2013
102. Column-supported Embankments on Soft Soils: Load Transfer, Consolidation, and Stability, Hohai University, China, May 18, 2013
103. Structural Response of a Low-Fill Box Culvert under Static and Traffic Loading, 2013, Transportation Research Board Annual Meeting, DC, January 14, 2013
104. Geosynthetic Reinforced Roadway Testing Under Cyclic Loading, Workshop “Deploying Soil and Rock Instrumentation to Solve Real Problems”, 2013 Transportation Research Board Annual Meeting, DC, January 13, 2013
105. Recent Advances of Column Technologies to Improve Soft Foundations, ASCE Kansas City Geotechnical Committee, January 11, 2013
106. Flexible pavements on geocell-reinforced RAP aggregate bases - a new and sustainable solution, Oklahoma Transportation Third Annual Summer Symposium, August 6, 2012
107. Laterally loaded piles in an MSE wall, Oklahoma Transportation Third Annual Summer Symposium, August 6, 2012
108. Evaluation of lateral behavior of pile-supported bridges under scoured conditions, Oklahoma Transportation Third Annual Summer Symposium, August 6, 2012
109. Evaluation of lateral behavior of pile-supported bridges under scoured conditions, Zhejiang University, China, July 26, 2012
110. Behavior of laterally loaded piles in an MSE wall, Central South University, China, July 17, 2012

111. Recent developments of geosynthetic-reinforced column-supported embankments Hunan University, China, July 16, 2012
112. Evaluation of lateral behavior of pile-supported bridges under scoured conditions, Wuhan University of Technology, July 13, 2012
113. Design of MSE walls under special conditions, Wuhan University, China, July 13, 2012
114. Evaluation of lateral behavior of pile-supported bridges under scoured conditions, Huazhong University of Technology, China, July 12, 2012
115. Exploring geocell technology for roadway base reinforcement, Huazhong University of Technology, China, July 12, 2012
116. Evaluation of lateral behavior of pile-supported bridges under scoured conditions, China University of GeoScience, China, July 11, 2012
117. Evaluation of lateral behavior of pile-supported bridges under scoured conditions, Southeast University, China, July 9, 2012
118. Evaluation of lateral behavior of pile-supported bridges under scoured conditions, Shanghai Jiaotong University, China, July 6, 2012
119. Stability Analyses of Reinforced Earth Structures, ASCE Kansas City Geotechnical Committee, October 6, 2011
120. Exploring Geocell Technology for Roadway Base Reinforcement, Wenzhou University, June 24, 2011
121. Geosynthetic-reinforced MSE Walls to Support Laterally Loaded Piles, Tongji University, June 21, 2011
122. Stability Analyses of Reinforced Earth Structures, Southeast University, China, June 18, 2011
123. Exploring Geocell Technology for Roadway Base Reinforcement, Nanjing University of Technology, China, June 17, 2011
124. Laterally Loaded Piles in a Mechanically Stabilized Earth Wall, Dalian University of Science and Technology, June 15, 2011
125. Recent Development of Column-supported Embankments, Dalian University of Science and Technology, June 15, 2011
126. Geosynthetic Reinforced – Research and Applications, Qingdao Technological University, China, June 13, 2011
127. Design of Geosynthetics-Reinforced Earth Walls under Special Conditions, Shanghai Jiaotong University, China, June 4, 2011
128. Geocell for Base Reinforcement, the University of Nebraska, Dec. 17, 2010
129. Geocell-reinforced Recycled Asphalt Pavements – A Sustainable Solution, the University of Delaware and the Technion Institute Symposium, Haifa, Israel, Nov. 10, 2010
130. Recent Advances in Column Technologies to Improve Soft Soils, the Institution of Engineers, Malaysia, July 22, 2010
131. Recent Developments of Geosynthetic-reinforced Column-supported Embankments, Wollongong University, Australia, July 19, 2010
132. Geosynthetics and Ground Improvement, Griffith University, Australia, July 13 to 15, 2010
133. Geosynthetic-reinforced Earth Walls to Support Laterally Loaded Piles, Wenzhou University, China, June 17, 2010
134. Micromechanical Analysis of Geosynthetic-soil Interaction under Cyclic Loading, Hohai University, China, June 13, 2010
135. Exploring Geocell Technology for Roadway Base Reinforcement, Southeast University, China, June 11, 2010
136. Geosynthetic-reinforced Earth Walls to Support Laterally Loaded Piles, Taiyuan University of Technology, China, June 8, 2010
137. Consolidation settlement of stone column-reinforced foundations in soft soils, Symposium on New Techniques for Design and Construction on Soft Clays, Brazil, May 22, 2010
138. Exploring Geocell Technology for Roadway Base Reinforcement, the University of Illinois at

- Urbana-Champaign, March 18, 2010
139. Geosynthetic Reinforcement Technologies and Recent Developments, the Institution of Engineers, Malaysia, July 21, 2009
 140. Ground Improvement Technologies, Southeast University, China, July 16-18, 2009
 141. Geosynthetic Reinforcement Technologies and Recent Developments, Wenzhou University, China, May 26, 2009
 142. Campus Life Enrichment Committee (CLEC) Lecture “Geosynthetic Reinforcement and Recent Developments”, Georgia Southern University, Statesboro, GA, Nov. 21, 2008
 143. Behavior of Laterally Load Shafts Constructed Within an MSE Block Wall, Wuhan University, China, June 30, 2008
 144. Behavior of Laterally Load Shafts Constructed Within an MSE Block Wall, Department of Road and Bridges at Huazhong University of Science & Technology, China, June 26, 2008
 145. Behavior Experimental and Numerical Evaluation of Geocell-Reinforced Bases, Department of Geotechnical Engineering at Tongji University, China, June 24, 2008
 146. Behavior Experimental and Numerical Evaluation of Geocell-Reinforced Bases, Department of Civil Engineering at Shanghai University, China, June 12, 2008
 147. Behavior of Laterally Load Shafts Constructed Within an MSE Block Wall, Department of Geotechnical Engineering at Zhejiang University, China, June 10, 2008.
 148. Technical Paper Writing in English – Reviewer’s Point of View, Tianjing University, China, June 6, 2008
 149. Behavior of Laterally Load Shafts Constructed Within an MSE Block Wall, Department of Geotechnical Engineering at Tongji University, China, June 3, 2008
 150. Geosynthetic Reinforcement for Riverside Slope Stability of Levees due to Rapid Drawdown, the 2nd International Conference on Geotechnical Engineering for Disaster Mitigation & Rehabilitation (GEDMAR08), Nanjing, China, May 30 to June 2, 2008
 151. Behavior of Laterally Load Shafts Constructed Within an MSE Block Wall, Institute of Geotechnical Engineering at Southeast University, China, May 29, 2008
 152. Insitu testing technologies – state of the art, presented to undergraduate class in geotechnical engineering at Tongji University, China, May 27, 2008
 153. Design and Evaluation of Geosynthetic-Reinforced Roads, Geotechnical Distinguished Seminar Series, Department of Civil, Construction, and Environmental Engineering, Iowa State University, October 12, 2007
 154. U.S. LRFD Design in Geotechnical Engineering, Tongji University, Shanghai, China, June 5, 2007
 155. Research on Geocell-Reinforced Foundations, Southeast University, Nanjing, China, May 29, 2007
 156. Coupled Mechanical and Hydraulic Modeling of Geosynthetic-Reinforced Column Supported embankments, Shanghai Jiaotong University, Shanghai, China, May 23, 2007
 157. Development of China into a Modern Country – Another Great Leap Forward? KU Center for East Asian Studies, May 2, 2007
 158. LRFD Design for Deep Foundations, KU Professional Series, March 12, 2007
 159. China: the World’s Largest Construction Site, KU Center for East Asian Studies, March 6, 2007
 160. Geotechnical Options for Lowering Petroleum Costs, the 50th Annual Kansas Asphalt Paving Conference, Lawrence, KS, December, 7, 2006
 161. Stresses and deformations induced by widening of existing embankments, the International Symposium of Lowland Technology, Saga University, Japan, September 14-16, 2006
 162. Stability Analysis of Reinforced Earth Structures, the University of Missouri – Rolla, November 8, 2005
 163. Stability Analysis of Reinforced Earth Structures using Numerical Methods, Saga University, Japan, September 8, 2005
 164. Geosynthetic Reinforcement and Applications, Tongji University, China, July 28, 2005
 165. Design of Geosynthetic-reinforced Roadways and Embankments, School of Transportation

- Engineering, Tongji University, China, July 26, 2005
166. Design of Pile-supported Embankments, Zhejiang University, China, July 21, 2005
 167. Technical Paper Writing for Geotechnical Publications – Reviewer’s Point of View, Southeast University, China, July 14, 2005
 168. Geotechnical education in U.S, Southeast University, China, July 14, 2005
 169. Design of Geosynthetic-reinforced Roadways, Southeast University, China, July 13, 2005
 170. Stability Analysis of Reinforced Earth Structures, Southeast University, China, July 13, 2005
 171. Designing Geosynthetics for Highway Applications, Southeast University, China, July 12, 2005
 172. Stability Analyses of Reinforced Earth Structures using Numerical Methods, Geotechnical & Geoenvironmental Engineering Seminar, the University of Missouri – Columbia, October 15, 2004
 173. Geosynthetic-Reinforced Pile-Supported Embankments, Kansas City – ASCE/AEG/UMKC-Geotechnical Group, October 7, 2004
 174. Geosynthetic-soil particle interaction, Micro-Geomechanics Workshop at Cambridge University in Cambridge, England, March 20 to 23, 2005, sponsored by the U.S. National Science Foundation (NSF)/ U.K. Engineering and Physical Sciences Research Council (EPSRC)
 175. Geosynthetics-Reinforced Pile-Supported Embankments, Department of Civil and Environmental Engineering, University of Delaware, November 10, 2003
 176. Geosynthetic-reinforced Pile-supported Embankments, Department of Civil, Architectural, and Environmental Engineering, Drexel University, October 28, 2003
 177. Geotechnical Research at Widener University, the 4th USUCGER Workshop, Atlanta, GA, October 3, 2003, supported by NSF
 178. Design of Geosynthetic-reinforced Pile-supported Embankments, Panama Geotechnical Community, Fall, 2002
 179. Geosynthetic-Reinforced and Pile-Supported Foundation Systems”, Department of Civil Engineering, Saga University, Japan, September 3, 2002
 180. Geosynthetic-Reinforced Pile-Supported Foundation Systems, NSF Geotechnical Composite System Workshop, Virginia Tech, July 28 and 29, 2002, supported by NSF
 181. Design of Geosynthetic Reinforced Slopes and Walls, School of Civil and Environmental Engineering, the Georgia Institute of Technology, February & March 2001
 182. Geogrid-Reinforced and Pile-Supported Earth Structures on Weak Foundation Soils, the Bridge Department at NCDOT, November 2000
 183. An Experimental and Analytical Study of The Behavior of Fiber Reinforced Polymer Piles, Department of Civil and Environmental Engineering, Louisiana State University, May 2000
 184. Numerical Study of Geosynthetic Reinforced and Pile Supported Fill Platforms over Soft Soil, Department of Civil and Environmental Engineering, Louisiana State University, February 2000
 185. Lecture “Analysis of Geosynthetic Reinforced and Pile Supported Fill Platforms over Soft Soil”, invited, presented to the faculty and students at Department of Civil and Environmental Engineering, University of Utah, January 2000
 186. Design of Mechanically Stabilized Retaining Walls, School of Civil and Environmental Engineering, the Georgia Institute of Technology, October 1999
 187. Geosynthetic Reinforced and Piled Embankments over Soft Soil, Department of Civil and Environmental Engineering, University of Texas at Arlington, May 1999
 188. The Use of Geosynthetics in Civil Engineering, School of Civil and Environmental Engineering, the Georgia Institute of Technology, November 1998
 189. Geogrid Reinforced Soil Foundations, Froehling & Roberston 21st Annual Technical Seminar, January 1998
 190. An Experimental and Analytical Study of Fiber Reinforced Polymer Piles in Sand and Pile-Sand Interactions, Department of Civil and Environmental Engineering, University of Delaware, March 1997

Short Courses

1. Ground Improvement Techniques, Jie Han, the University of Cape Town, June 21-23, 2021
2. Ground Modification Methods and Their Recent Developments, Vern Schaefer and Jie Han, IFCEE 2021, Dallas, TX, May 11, 2021
3. Ground Improvement Techniques, Jie Han, the University of Cape Town, June 22-24, 2020
4. Improving Roadway Performance with Geosynthetics, Jie Han, Geosynthetics Conference: Case Histories, North Charleston, SC, March 8, 2020
5. Ground Modification Methods and Their Recent Developments, Vern Schaefer and Jie Han, ASCE GeoCongress 2020, Minneapolis, MN, February 25, 2020
6. Design of Column-supported Embankments, Mounir Bouassida and Jie Han, the 17th African Regional Conference on Soil Mechanics and Geotechnical Engineering, Cape Town, South Africa, October 7, 2019
7. Design of Geosynthetic-Reinforced Retaining Walls and Slopes under Special Conditions, Jie Han and Dov Leshchinsky, the Geosynthetics 2019 Conference, Houston, Texas, February 10, 2019
8. Geosynthetic-stabilized Roads: From Mechanisms to Applications, Jie Han, J.P. Giroud, Erol Tutumluer, and Michael Dobie, the 11th International Conference on Geosynthetics, Seoul, Korea, September 16, 2018
9. Geosynthetic-Reinforced Earth Structures and Stabilized Roads: Principles and Applications, Tensar International, Jinchuan, China, June 7, 2018
10. Geosynthetic-Reinforced Earth Structures and Stabilized Roads: Principles and Applications, Tensar International, Lanzhou, China, June 6, 2018
11. Geosynthetic-Reinforced Earth Structures and Stabilized Roads: Principles and Applications, Tensar International, Hefei, China, June 28, 2017
12. Ground Improvement and Land Reclamation, Jie Han and Jian Chu, Selangor, April 10-11, Penang, Malaysia, April 12-13, 2017
13. Ground Improvement and Foundation Design, Jie Han, Nanyang Technological University, Singapore, April 5, 2017
14. Design of Geosynthetic-reinforced Foundations for Load Support, Jie Han, the Geotechnical Frontiers, Orlando, Florida, March 12, 2017
15. Recent Developments in Ground Improvement - Tools Every Geotechnical Engineer Should Have, James G. Collin and Jie Han, the ASCE Geo-Structures Congress, Phoenix, Arizona, February 14, 2016
16. Design of Geosynthetic-reinforced Unpaved and Paved Roads, J.P. Giroud and Jie Han, Portland, Oregon, February 14, 2015
17. Mechanisms and Design of Unpaved Roads, J.P. Giroud and Jie Han, Berlin, Germany, September 22, 2014
18. Design of Geosynthetic-reinforced Unpaved and Paved Roads, J.P. Giroud and Jie Han, Long Beach, California, April 5, 2013
19. Geosynthetics for Stream Crossings and Channel Stabilization, Jie Han, A pre-conference session to the 2012 joint APWA/KCHA Spring conference, Newton, May 9, 2012
20. Recent Trends in Ground Improvement, James G. Collin, Ryan Berg, and Jie Han, the GeoFrontiers 2011, Dallas, Texas, March 13, 2011
21. Principles and Practice of Ground Improvement, Jie Han, the Association of Geotechnical Societies in Southeast Asia, Malaysia, July 22-23, 2010
22. Design of Geosynthetic-Reinforced Earth Structures, Jie Han, the Association of Geotechnical Societies in Southeast Asia, Malaysia, July 20 to 21, 2009
23. Geosynthetics Reinforcement in Embankment Foundations and Roads, Jie Han, Monash University, Australia, October 10, 2008
24. Geotextile Applications, Jie Han, Griffith University, Australia, September 29 to October 3, 2008.

PAPER/PROPOSAL/AWARD REVIEWER

- Transportation Geotechnics
- Ground Improvement
- Research Proposal Review for National Science Foundation
- Research Proposal Review for Czech Science Foundation
- Changjiang Scholars Review for Ministry of Education of P.R. China
- Research Proposal Review for NCHRP
- Research Project Review for Federal Highway Administration
- Research Proposal Review for Research Grant Council (RGC) of Hong Kong
- Research proposal review for the United Arab Emirates University
- Acta Geotechnica
- Journal of Engineering Mechanics, ASCE
- Journal of Geotechnical and Geoenvironmental Engineering, ASCE
- Geotechnique
- Geotechnique Letters
- Canadian Geotechnical Journal
- Transportation Research Board, Annual Meeting
- ASTM Geotechnical Testing Journal
- Geosynthetic International Journal
- International Journal of Geomechanics
- Geomechanics and Geoengineering: An International Journal
- Soils and Foundations
- Geotextiles and Geomembranes
- Computers and Geotechnics
- Environmental Geology
- Journal of Materials in Civil Engineering, ASCE
- Journal of Bridge Engineering, ASCE
- International Journal of Pavement Engineering
- Construction and Building Materials Journal
- Ocean Engineering
- Lowland Technology International Journal
- Journal of Zhejiang University Science
- ASCE Geotechnical Frontiers, Orlando, Florida, 2017
- ASCE GeoCongress, San Diego, CA, 2012
- ASCE GeoFrontiers, Dallas, TX, 2011
- ASCE GeoCongress, Oakland, CA, 2010
- International Foundation Congress & Equipment Expo 2009, 2014, 2018
- ASCE Geo-Institute Conference: GeoCongress 2008
- GeoAmericas International Conference, Cancun, Mexico, March 2008
- ISGSR2007 First International Symposium on Geotechnical Safety and Risk, Shanghai, China, October, 2007
- ASCE Geo-Institute Conference: Geo-Denver 2007
- The 5th International Symposium on Earth Reinforcement, Fukuoka, Japan, 14-16th November, 2007
- The 8th International Geosynthetic Conference, 2006
- GeoShanghai International Conference, Shanghai, China, 2006, 2010, 2014
- ASCE GeoFrontiers, Austin, Texas, 2005
- ASCE Geo-Trans Conference, Los Angeles, 2004
- ASCE GeoSupport Conference, Orlando, 2004
- ASCE Geo-Institute Conference: Geo-Denver, Denver 2000
- ASCE Geo-Institute Conf. on Performance Verification of Constructed Geotechnical Facilities, 2000

- ASCE Geo-Institute Specialty Conference on Underground Facilities, 1999
- The Sixth International Geosynthetic Conference, 1998

INTERNATIONAL M.S. AND PH.D. THESIS EXAMINER

- Ph.D., Delft University of Technology, Netherland
- M.S., National University of Singapore
- Ph.D., Nanyang Technological University, Singapore
- Ph.D., University of New South Wales, Australia
- Ph.D., Indian Institute of Technology - Madras, India
- Ph.D., Indian Institute of Science, Bangalore, India
- Ph.D., Indian Institute of Technology – New Delhi, India
- Ph.D., Indian Institute of Technology – Kanpur, India
- Ph.D., Suranaree University of Technology, Thailand
- Ph.D., The Hong Kong Polytechnic University, China
- Ph.D., Hunan University, China
- Ph.D., Oregon State University, USA
- Ph.D., Missouri University of Science and Technology, USA
- Ph.D., University of Newcastle, Australia