

# Curriculum Vitae

**Manoochehr Zoghi, Ph.D., M.B.A., P.E.**

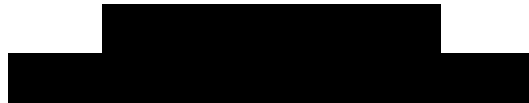
Dean & Professor

College of Engineering, Technology & Computer Science

Purdue University Fort Wayne

2101 E. Coliseum Blvd.

Fort Wayne, IN 46805



1 December 2021

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## PROFESSIONAL PROFILE

An accomplished educator and researcher with wide-ranging experience in academic administration. Demonstrated effectiveness in leading and supporting a strong administrative team. Expertise in strategic planning and execution. Deeply committed to providing educational access and affordability to help first-generation, high-financial need, and other underrepresented minority students to realize their full potential and flourish academically. Enthusiastic supporter of growth and professional development opportunities for faculty and staff. Commitment to promoting diversity and creating a culture of inclusive excellence within and across all missions of the institution. Dedicated to shared governance – ethical, accessible, transparent, and consultative leadership with absolute integrity. Proven track record of effectively managing fiscal and personnel resources of a higher education institution. Demonstrated ability and success in ‘friend-raising’ and fundraising to meet institutional goals. Experience with digital learning, entrepreneurship education, and high-impact practices that both foster academic rigor and student success. Demonstrated ability to inspire all stakeholders including students, faculty, staff, alums, industry, and the community to work toward shared common goals. Extensive knowledge of assessment practices and accreditation standards. Significant experience with outreach, recruitment management, retention, enrollment strategies, and student life. Experience with development and prioritization of campus infrastructural planning, renewal, and maintenance in support of student success.

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## EDUCATION & LICENSURE

- Ph.D.** (1988) Civil Engineering, College of Engineering and Applied Science, University of Cincinnati  
Dissertation: Stability of Colluvial Slopes During Earthquakes
- M.B.A.** (2017) San Francisco Institute of Architecture (Fully Online)  
Concentration: Green/Sustainability
- M.E.** (1981) Civil Engineering, J.B. Speed School, University of Louisville  
Thesis: An Investigation of Hooked Bar Anchorages
- B.S.** (1979) Civil Engineering, J.B. Speed School, University of Louisville
- P.E.** Licensed Professional Engineer, Commonwealth of Virginia, Number: 0402040664
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## LEADERSHIP & MANAGEMENT DEVELOPMENT TRAINING

- ◆ American Council on Education (ACE) Fellow - Class of 2020-23 (Extended Due to COVID).
- ◆ Academic Leadership Academy - Center for the Study of Higher Ed, Penn State, 2019-20 Cohort.
- ◆ Becoming a Provost Academy - American Academic Leadership Institute (AALI), 2018-19 Cohort.
- ◆ Innovation and Entrepreneurship Professional Certificate (Eight Courses) - Stanford University, School of Engineering & Graduate School of Business, Class of 2018-19.
- ◆ Management Development Program - Harvard University, Graduate School of Education, 2016.
- ◆ Executive Leadership Program - Berkeley Executive Education, Haas School of Business, 2014.
- ◆ Coleman Fellow for Entrepreneurship, Coleman Foundation, 2010-16.

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## WORK HISTORY

- ◆ Dean and Professor, College of Engineering, Technology, and Computer Science, Purdue University, Fort Wayne, July 1, 2016 – Present.
- ◆ Graduate Faculty, Purdue University, 2016 – Present.
- ◆ Associate Dean and Professor, Lyles College of Engineering, California State University, Fresno, August 15, 2010 – August 15, 2014.
- ◆ Founding Chair and Professor, Department of Construction Management, California State University, Fresno, July 17, 2009 – June 30, 2016.
- ◆ Interim Chair and Professor, Department of Mechanical Engineering, California State University, Fresno, July 1, 2011– June 30, 2012.
- ◆ Industry Fellow, Lyles College of Engineering, California State University, Fresno.
- ◆ Founding Chair and Professor, Department of Civil & Environmental Engineering, Idaho State University, July 1, 2007 – July 17, 2009.
- ◆ Director of Graduate Programs, Department of Civil & Environmental Engineering & Engineering Mechanics, University of Dayton, OH, 1996 – 04.
- ◆ Founding Director, University Graduate Guidance Center, Associated with the Honors/Scholars Programs, University of Dayton, 1997 – 01 (1/4 Time Allotted).
- ◆ Associate Professor of Civil Engineering, Department of Civil & Environmental Engineering & Engineering Mechanics, University of Dayton, OH, 1992 – 07.
- ◆ Visiting Professor, International Center for Geohazards (ICG) - Consortium of Norwegian Geotechnical Institute (NGI), University of Oslo, and Norwegian University of Science and Technology (NTNU), Summer 2003.
- ◆ Visiting Researcher/Scholar, International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, Iran, Fall 1994 (During Sabbatical Leave).
- ◆ Assistant Professor of Civil Engineering, University of Dayton, OH, 1986 – 92.
- ◆ Structural Engineer - LJB, Inc. & CON/SPAN Bridge Systems, Dayton, OH, 1983 – 86.

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## ADMINISTRATIVE LEADERSHIP EXPERIENCE

### **PURDUE UNIVERSITY FORT WAYNE (JULY 2016 TO PRESENT)**

Part of the internationally respected land-grant Purdue University system, Purdue Fort Wayne is a public, comprehensive, metropolitan university with more than 8,300 students (approximately 52% are first generation). The university, accredited by the Higher Learning Commission, offers over 200 academic programs of study via five colleges/schools and a division of continuing education.

#### Select Contributions at the Campus Level:

- ◆ Member of the PFW process group and architecture to improve student success.
- ◆ Member of the leadership team for the university strategic plan. The first comprehensive, all-university effort strategic planning process involving all levels and areas of campus, launched in fall 2018. In the process of implementing the top strategic priorities, identified in fall 2019.
- ◆ Co-chair of the diversity, equity, and inclusion planning team. Our team has led the development of the first ever DEI plan for the campus, visited several aspiring universities to identify best practices, and has laid the groundwork as we continue to create a culture of inclusive excellence at all levels.
- ◆ Co-chair of the HLC reaccreditation steering committee. Oversight of the preparation for the HLC team's campus visit during the realignment process in 2018, transitioning from IPFW to PFW/IUFW. Prepared for a highly successful full reaccreditation visit in spring 2021.
- ◆ Member of the student affairs strategy steering committee - We have led the campus in preparing the

first ever comprehensive strategic plan for the student affairs division.

- ◆ Intimately involved in fundraising and philanthropic efforts in conjunction with the office of development. Preparing for the first ever major capital campaign.
- ◆ Internationalization of campus - Working closely with the International Office and Dean of the Doermer School of Business. MOUs with universities in Morocco and Spain. Collaborations at all levels of university (both teaching and research) as well as K-12 and after school academy.
- ◆ Co-founder of the IDEASpace (Innovation, Design-thinking, Entrepreneurship, Active-learning, Space-maker). Spearheaded and launched the faculty fellows for entrepreneurship program to enrich entrepreneurial-minded, experiential learning education on campus.
- ◆ Launched the first-ever highly successful living-learning community at student housing.
- ◆ Purdue Fort Wayne's representative for the elevate northeast Indiana discovery.
- ◆ Member of the steering committee of the Japan-Northeast Indiana summit.
- ◆ Representing the university at various Northeast Indiana Regional Partnership initiatives – relating to economic development by attracting new businesses/entrepreneurs, and workforce development.
- ◆ Leading the Industry 4.0 (aka IIoT) initiative in collaboration with Ivy Tech community college, Whitley County Economic Development Corporation (EDC), and myriad industry partners.
- ◆ Established close partnership with regional industry and community-based organizations as part of Purdue Fort Wayne's Metropolitan University mission.
- ◆ Engaged in the university's massive realignment process transitioning from IPFW to two separate campuses of IU Fort Wayne and Purdue Fort Wayne. Leadership team member for the new Purdue Fort Wayne branding, the new Center for Career Services, and university budget/resource allocations.
- ◆ Serving on the leadership team for enrollment management, student success, retention, graduation initiatives, and myriad other activities. Member of the university academic senate.
- ◆ Overseeing the ROTC on campus. Promoting outreach and recruitment, establish policy advocacy, and enhance student veteran success.

### **Dean, College of Engineering, Technology & Computer Science (ETCS)**

The largest college on campus, ETCS has a total of 130 full- and part-time faculty and staff in support of more than 1,600 undergraduate and graduate students. It comprises departments of civil and mechanical engineering, electrical and computer engineering, computer science, organizational leadership, school of polytechnic, and three centers of research excellence. College of ETCS offers a combination of 35 undergraduate, graduate, minor, and certificate programs. As the Chief Executive Officer and Chief Academic Officer, I am responsible for all aspects of the college, including the budget (approx. \$10 million), personnel and reappointments, tenure and promotion, outreach and enrollment management, recruitment and retention, curricula and program development, advising and mentoring initiatives, marketing and public relations, advocacy, fundraising and philanthropy, and other related leadership and administrative duties of a diverse college at a public institution.

### **Select Accomplishments:**

- ◆ Strategic planning and execution. Led the college to launch the first-ever comprehensive and ambitious strategic plan in accordance with the collective system design (CSD) methodology.
- ◆ School of Polytechnic. Founded the school of polytechnic in our college during university's realignment process in 2018, with a focus on innovative teaching methods, hands-on experiences, and industry partnerships. In close collaboration with its director and local architects, prepared conceptual drawings and renderings for a proposed 60,000 SF building to house the new school of polytechnic.
- ◆ Fundraising and external relations. Acquired myriad donations, gifts, endowments for student scholarships, in collaboration with the director of development. Work closely with the philanthropic taskforce of our IAB and the VC for development in naming opportunities for the school of polytechnic

(\$10 million) – toward the overall cost of the building (~\$65 million), and additional \$5 million towards renovation of the existing engineering building.

- ◆ Enrollment management and student success. Launched the highly successful student life-cycle flow model in partnership with K-12, Ivy Tech community college, and industry to ensure pre-college preparedness and post-college career readiness. Established several evidence-based, high-impact practices to enhance retention and timely graduation. Work closely with the admissions office, enrollment management team on campus, and SPARK451 consultants (enrollment strategy, marketing and technology firm) to diversify and expand ETCS recruitment efforts. Established dual-degree agreements between University of St. Francis (sciences) and PFW (engineering/technology).
- ◆ Innovation, entrepreneurship, and technology transfer. Oversight of three centers of research excellence and myriad projects through the Purdue Technical Assistance Program (TAP) and Indiana Manufacturing Competitiveness Center (IN-MaC), with the mission to advance economic prosperity and to foster a stronger, more competitive manufacturing ecosystem for Indiana and beyond. Implemented the industry/corporate fellows program initiative, industry-academe collaborative innovation projects, Industry 4.0 summit, and entrepreneur-in-residence program.
- ◆ Accreditation. All ETCS programs that were slated for the ABET accreditation, received full six-year re-accreditation recently.
- ◆ New programs. Approval of several 4+1 accelerated B.S.-M.S. dual degree programs. Development of a new joint M.S. degree in engineering management between ETCS and Doermer School of Business' MBA program (pending). Development of a new joint M.S. degree in sustainability in collaboration with the College of Arts and Sciences (pending). Certificate programs in biomechanical engineering and advanced manufacturing. Joint on-line courses between our Systems Engineering Center and School of Technology, Purdue Polytechnic Institute, West Lafayette. MOU between ETCS and School of Technology, Polytechnic Institute to offer Ph.D. in technology to students at PFW.
- ◆ National ranking. Under my leadership, our engineering programs' national ranking has enhanced from being in the top 20% (57) to top 10% (33) within the last five years – among the 400 undergraduate engineering programs according to the U.S. News and World Report survey of colleges whose highest engineering degree offered is a bachelor's or master's.

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#### **CALIFORNIA STATE UNIVERSITY, FRESNO (JULY 2009 – JULY 2016)**

California State University, Fresno (aka Fresno State), a Hispanic-Serving Institution (HSI), is a public comprehensive university and part of the 23 campuses within the CSU system with an enrolment of more than 24,000 students. Fresno State is recognized for providing transformational education that ripples out to improve the quality of life across Central Valley and beyond. During my tenure at Fresno State, I championed the CSU's well-known Graduation Initiative. Also, I was an active member of the Smittcamp Honors Council, served on the WASC's steering reaccreditation committee, provost leadership team, academic affairs budget advisory task force, community-based research working group, and brand-marketing and communications council. I served on the advisory board of Dinuba Unified School District, and launched (along with the dean) the Pathways to Engineering and Construction Management Careers initiative, co-sponsored by James Irvine Foundation and Lyles Challenge Grant. I was also intimately engaged in community service projects, integrated service learning in multiple courses, and received the president's award of excellence in service for our Eco-Village project in collaboration with the world-renowned architect, Mr. Art Dyson, to address the housing needs of homeless community in Fresno. As a Coleman fellow for entrepreneurship, I collaborated closely with other Coleman fellows on campus via Lyles Center for Innovation and Entrepreneurship to promote entrepreneurial education and grow startup opportunities in Central Valley. I led several multidisciplinary teams of faculty in developing new undergraduate and graduate programs and implemented the Grand Challenges Scholars Program.

**Associate Dean, Lyles College of Engineering**

With nearly 1500 combined undergraduate and graduate student enrollment, Lyles College of Engineering (LCOE) comprises six fully accredited programs – five ABET accredited engineering programs and an ACCE accredited construction management program. As the sole associate dean, I supported and assisted the dean in carrying out the college's mission, and served as the operations administrator of the LCOE with a primary focus on academic programs, research and student services. In addition, I served as a member of the LCOE Executive Committee, ad-hoc member of the LCOE Consultative Body, as well as all standing committees of the Consultative Body.

**Select Accomplishments:**

- ◆ Participated in and provided leadership in long-range planning for the LCOE, in collaboration with the dean, faculty, staff, students, campus leadership and external constituents.
- ◆ Assisted the dean with administration of LCOE budget (~\$4 million annually) and with other resource issues such as equipment, major and minor capital outlay justification and coordination, procurement, the development and allocation of other non-level B budgeting received by LCOE and maintenance of a plan for LCOE facility needs. In addition, we received a \$10 million Lyles Gift and up to \$5 million challenge grant. I was intimately involved in allocation of the challenge grant and fund raising as well.
- ◆ Provided oversight and management of the new full-time tenure-track faculty, part-time faculty, and teaching associates' hiring and evaluation processes. Coordinated all the faculty searches in LCOE during my tenure as the associate dean, working closely with the search committee chairs and EEOs. We were very successful in recruiting highly qualified and diverse group of new faculty.
- ◆ Managed both undergraduate and graduate enrollment across all LCOE programs.
- ◆ Managed scholarships selection, distribution and reporting. In addition, I oversaw the LCOE Husband-Boeing Honors Program, the VIP (Valley Industry Partnership) Internship program, Pathways student services division, and the MESA program (Mathematics, Engineering, Science Achievement).
- ◆ Represented LCOE on the university's Smittcamp Family Honors council.
- ◆ Coordinated instructionally-related activities (IRA) proposal screening for LCOE, in collaboration with faculty advisors and department chairs, and managed all IRA projects and related expenditures (varied between \$100 K to \$250 K annually).
- ◆ Coordinated college-wide assessment activities, department program review processes in relation to ABET, ACCE, and WASC. Assisted with development and draft of self-study reports and online surveys, data analyses, and other related activities.
- ◆ Oversaw the recruiting and outreach with local high schools, and coordinated articulations with regional community colleges, in partnership with LCOE outreach director and campus outreach office. I served on the advisory board of the Dinuba School District. In addition, we received \$800 K grant from James Irvine Foundation (a total of \$1.6 million including the Lyles match) in support of our Pathways to Engineering and Construction Management Careers initiative to facilitate a closer partnership with local school districts, community colleges and industry. This served as a venue for an enhanced articulation process between Fresno State and affiliated community colleges.
- ◆ Facilitated discussions regarding the SB 1440: the student transfer achievement reform act and the cap of 120 credit hours for graduation in engineering in LCOE, in collaboration with other CSU campuses.
- ◆ Coordinated all LCOE's campus visit days and open houses for local high schools.
- ◆ Represented the college at the California Engineering Liaison Council (CAELC), a consortium of community colleges, CSUs and UCs, and hosted the annual event twice at Fresno State.

**Interim Chair, Department of Mechanical Engineering**

In addition to my duties as the associate dean and chair of the construction management department, I served as the interim chair of the ME department during 2011-12. The ME program had the largest enrollment among the six LCOE programs with over 400 undergraduate and graduate students. My accomplishments included:

- ◆ Conducted a SWOT (Strengths, Weaknesses, Opportunities, and Threats) analysis to identify short-term and long-range goals. Facilitated development of a shared vision and a strategic plan for the department and worked closely with all constituents to execute them.
- ◆ Assembled two separate subcommittees to revamp both undergraduate and graduate curricula based on MIT's CDIO (Conceive, Design, Implement, and Operate) initiative.
- ◆ Led the ME program through a highly successful ABET reaccreditation visit.
- ◆ Facilitated budget planning – open and transparent to the department faculty and staff.
- ◆ Established and maintained strong relationships between the department and constituents outside the university, including alumni, prospective students, industrial partners (industry advisory council), donors, and the community.
- ◆ Recruited two new tenure track faculty.

### **Founding Chair, Department of Construction Management**

The CM program had only one full-time faculty and several adjunct faculty at the time I joined Fresno State. Under my leadership, the CM program grew to comprise five full-time, tenured/tenure track faculty, and transitioned into a formal department status. Following is a partial list of my accomplishments as the founding chair of the CM department:

- ◆ Assembled a dedicated team of industry advisory board and developed a strategic plan.
- ◆ Designed and built the first ever outdoor lab to accommodate lab courses and to provide hands-on experiential learning opportunities for students.
- ◆ Made internship mandatory and solicited extramural funding (\$60 K) to develop best practices and to hire an HR company to administer this initiative.
- ◆ Solicited funding from the CSU Chancellor's Office and successfully recruited a CSU STEM VISTA member to assist with special needs of CM.
- ◆ Established a distinctive leadership/entrepreneurship development program as an integral part of the CM student education, a flagship of the Lyles College of Engineering. My grant proposal entitled: "*Granite-Boitano Future Leaders in Construction Management*," received a total of \$200 K to provide scholarships to student leaders/entrepreneurs.
- ◆ Developed a robust assessment process via kaizen principles (with participation of faculty) and prepared the self-evaluation report. Consequently, received a six-year reaccreditation from ACCE (American Council for Construction Education).
- ◆ Implemented several award-winning service-learning programs (including our well-known "*eco-village*" project) throughout the curriculum and received numerous internal and external grants to strengthen partnership with CBOs (Community-Based Organizations).
- ◆ Received a highly competitive HELP Grant (\$100 K) from NAHB, by preparing and submitting a comprehensive grant proposal and presenting it to the NAHB Board in Washington, D.C., to develop a residential program within CM.

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### **IDAHO STATE UNIVERSITY (JULY 2007 – JULY 2009)**

Idaho State University is a Carnegie-classified doctoral research institution. It offers more than 250 academic programs and is the state's designated lead institution in health professions. During my tenure at ISU, the institution was going through the transition of elevating to the Carnegie doctoral classification. I played a key role in promoting greater research and scholarly activities, acquired extramural research grants, contributed to the development of several interdisciplinary master's degree programs and a joint Ph.D. program between engineering and sciences. The duration was cut short due to family health emergency –had to move to California to provide care for our elderly parents.

### **Founding Chair, Department of Civil & Environmental Engineering**

During my tenure at ISU, we made significant strides, some of which are listed below:

- ◆ Established the departmental status and received a full reaccreditation from ABET.
- ◆ Developed an aggressive vision and strategic plan with constituents, including industry partners, alumni, faculty, and students.
- ◆ Prepared and submitted multiple research proposals and served as the PI and co-PI of several major research contracts. During my tenure as the founding chair, the research/scholarly activities within the CEE Dept. increased significantly and the extramural funding tripled.
- ◆ In collaboration with the College of Engineering's director of development and office of the university advancement, I pursued aggressive fundraising and was very successful in launching several new initiatives.
- ◆ Administered all departmental duties including course scheduling, faculty workload, budget planning (~ \$1.0 million), undergraduate and graduate (several M.S. degree programs and a joint interdisciplinary Ph.D. degree program with the college of sciences) recruiting, curricular revisions/innovations, and a sustainable assessment plan.

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### **UNIVERSITY OF DAYTON (AUGUST 1986 – JULY 2007)**

University of Dayton is a top-tier national Catholic research university with a mission of service and leadership in community. UD's best-kept secret is the University of Dayton Research Institute (UDRI) – with more than 600 full-time employees, it is ranked #1 in the nation for sponsored R&D in materials engineering (~\$100 million/yr). During my tenure at UD, I collaborated with UDRI researchers on a number of interdisciplinary research projects as the PI or co-PI. For example, my bridge repair and rehabilitation project using post-tensioned CFRP laminates, sponsored through the Federal Highway Administration's Innovative Bridge Research and Construction (IBRC), was an academe-industry-government partnership involving structural engineers, county engineers, material scientists, and computer scientists, a collaboration between the U.S. and Switzerland. It was the first application of its type in the U.S. in which we received the International Concrete Repair Institute's Award of Excellence in transportation category. In addition, I championed the internationalization of the campus by working closely with colleagues from other fields and acquired educational grants to develop and offer study abroad programs to promote international collaborations. I spearheaded the "Professoriate - Multicultural Diversity" project at UD, sponsored by the Diversity in Community Grants program. The impetus for this project was to create a culture of internationalization on campus. According to Ray Bakke, "*The Real Challenge facing the world is not geographic distance – but cultural distance.*" I was also a founding member of the Ohio Infrastructure Institute – consortium of nearly all universities and research institutes in the State offering infrastructure related programs/expertise.

### **Director of the Graduate Programs, Department of Civil & Environmental Engineering & Engineering Mechanics**

I launched several initiatives as the Director of Graduate Programs. At the time, the Dayton Area Graduate Studies Institute (DAGSI) was established that provided numerous funding opportunities towards recruiting and supporting graduate students. DAGSI is a consortium of graduate engineering schools at the University of Dayton (a top tier private Catholic institution), Wright State University (a state-assisted institutions), and the Air Force Institute of Technology, AFIT (a federal institution). It also includes the Ohio State University and the University of Cincinnati as affiliate members and Miami University and Ohio University as associate members.

- ◆ Prepared and submitted numerous proposals to DAGSI to solicit funding for tuition remissions as well as stipends to grow and enhance our graduate programs.
- ◆ Collaborated closely with UDRI (University of Dayton Research Institute, ranked second among all universities and colleges in the nation for sponsored research in materials) researchers on a number of research contracts, whereby I involved both undergraduate and graduate students in interdisciplinary research projects and provided financial support.



- ◆ As a founding member and one of the interim directors of the Ohio Infrastructure Institute (OII), I collaborated with researchers across the State to develop online courses/programs and joint research projects. We received over \$1,000,000 capital fund, which was distributed among member institutions.
- ◆ Served on school's graduate committee and contributed to the revision of the existing policy.

### **Founding Director of the Graduate Guidance Center, University of Dayton**

An integral part of the Honors and Berry Scholars program, the mission of the Graduate Guidance Center was to assist undergraduate students in determining their needs with respect to graduate schools. I worked closely with students individually as well as in groups to mentor/advise them to pursue graduate degrees and to apply for nationally recognized scholarships and fellowships (such as Fulbright, Barry Goldwater, James Madison, Marshal, Rhodes, National Science Foundation, Ohio Board of Regents, etc.). I also maintained an up to date website and a library, providing extensive online/offline resources for all students, and administered numerous workshops regarding preparation for the standardized tests including GRE, GMAT, LSAT, MCAT, and PCAT. I also contributed to the following endeavors in the Honors program:

- ◆ Served as key member of the Honors council.
- ◆ Served on the selection committee to recruit new Honor student cohorts.
- ◆ Worked closely with the dean of graduate division in promoting and supporting the graduate students.
- ◆ Made numerous presentations on campus, sponsored by the honors program, graduate division, and student clubs to promote graduate education and assisted applicants with their applications and essays for the graduate program of their choice (master's and doctoral) as well as law, medicine, and pharmacy.
- ◆ Launched two highly successful study abroad programs (submitted proposals and received internal educational funds), in collaboration with colleagues from geology and history departments: (1) To offer a geohazards and sustainable development program in Norway (was also involved in offering and teaching a section of the summer BEST program at NTNU in Trondheim); and (2) Another one to offer a Civil Engineering History Course in Italy. Furthermore, I contributed to the development of a third study abroad program in Ecuador, in collaboration with faculty colleagues from Electrical Engineering, Geology, Biology, Geography, Arts, and Humanities.

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## **CONSULTING EXPERIENCE**

### **LOCKWOOD, JONES, AND BEALS, INC. (1983–1986)**

- ◆ **CON/SPAN® Bridge System** – Instrumental in research and development (R&D) of the patented modular precast concrete bridge structures. The design is based on soil-structure interaction concept using rigorous finite-element modeling. Several full-scale proof of concept load tests were performed. There are over 7,000 CON/SPAN bridges installed since 1983. They have been used by more state DOTs than any other comparable short-span bridge system.
- ◆ **CON/STEEL® Tilt-Up System** – Structural designer of the record for numerous tilt-up structures. Tilt-up structures use design-build concepts, whereby the cast-in-place concrete elements are formed horizontally on the concrete slab and allowed to cure. Then, concrete walls are tilted in vertical position using a crane.
- ◆ **Industrial and Manufacturing Plants** – Project engineer for several local plants involving diagnosis and analysis of existing structural components and design of retrofitting and strengthening systems. Design of slab-on-grades, retaining walls, sheet-piling structures, and machine foundations for heavy equipment.

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## HONORS AND RECOGNITIONS

- ◆ American Council on Education (ACE) Fellow
- ◆ American Society of Civil Engineers (ASCE) Fellow
- ◆ Diplomate of the Geotechnical Engineering (D.GE), the Academy of Geo-Professionals
- ◆ Coleman Fellow, Coleman Foundation and Lyles Center for Innovation & Entrepreneurship
- ◆ Honorary Member of the Golden Key International
- ◆ Recipient of the Ohio Society of Professional Engineers' Outstanding Engineering Educator Award
- ◆ Recipient of the University of Dayton School of Engineering's Award of Excellence in Scholarship
- ◆ Recipient of the Great Lakes Geotechnical/Geo-environmental Award of Excellence in Geotechnical Engineering Education
- ◆ Recipient of the International Concrete Repair Institute's (ICRI) Award of Excellence in Transportation Category for collaborative bridge repair and rehabilitation project – located in Defiance, Ohio
- ◆ Humanities Fellow – The University of Dayton and National Endowment for the Humanities
- ◆ Member of Chi Epsilon – The National Civil Engineering Honor Society
- ◆ Member of the Omicron Delta Kappa (ODK) National Leadership Honor Society
- ◆ Summer Research Fellowship, University of Dayton
- ◆ Urban Fellowship Award, University of Dayton
- ◆ Honored Member of Empire Who's Who Executive Section
- ◆ "Who's Who in Science and Engineering," Marquis Who's Who
- ◆ "Who's Who in the Alliance for Disaster Reduction," Council on Disaster Reduction
- ◆ Honored Member of the America's Registry of Outstanding Professionals
- ◆ Teaching Fellow, University of Dayton

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## SELECT PROFESSIONAL AFFILIATIONS

- ◆ Member of the ASEE/NSF Strategic Investments Summit Team.
- ◆ Member of the Engineering Deans Council Diversity Committee.
- ◆ Member of the Board of Trustees of the California Homebuilding Foundation.
- ◆ Founding Member of the PMI-CVF (Project Management Institute – Central Valley Forum) student chapter.
- ◆ Member of the American Society of Engineering Education (ASEE). Campus representative/advisor and as a reviewer for several divisions regarding the annual ASEE conference paper publications.
- ◆ Member of the Building Industry Association (BIA).
- ◆ Member of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE).
- ◆ Life Member of the American Society of Civil Engineers (ASCE).
  - Also, served in the Following Capacities:
  - District 7 and Ohio Council Delegate.
  - President of the Dayton Section.
  - President Elect and Member of Affiliate Societies Council (ASC).
  - Vice President and Program Chairman – Dayton Section.
  - Treasurer – Dayton Section.
- ◆ Member of the International Institute for FRP Composites in Construction (IIFC).
- ◆ Member of the American Society for Composites (ASC).
- ◆ Member of the Prestressed / Precast Concrete Institute (PCI).
- ◆ President of the Great Lakes Geotechnical/Geo-environmental Organization.
- ◆ Member of the International Landslide Research Group.
- ◆ Chairman and Founder of the Geotechnical Engineering Group of Dayton Section.

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## TEACHING EXPERIENCE

**Purdue University** - Graduate faculty status. Speaker for Ph.D. seminars. Have been a guest speaker at various events and classes at Purdue Fort Wayne. **California State University, Fresno** - developed and taught several courses (in addition to my administrative responsibilities): construction management orientation, advanced construction structures, construction soils and foundations, senior seminar, sustainable design-build (team-taught), and a guest speaker for civil engineering seminars. **Idaho State University** - intro to engineering (team taught), statics (hybrid - onsite at the main campus and via online to Idaho Falls campus), geotechnical design, and guest speaker to seminar series both in civil engineering and geosciences. **University of Dayton** - intro to engineering design, intro to civil engineering, seminar series (freshmen and sophomore through seniors), statics, dynamics, mechanics of materials, geotechnical engineering, geotechnical engineering laboratories, analysis of determinate structures, analysis of indeterminate structures, prestressed concrete, structural dynamics, soil dynamics and design of machine foundations, geotechnical earthquake engineering, pavement design, construction, and management, advanced geotechnical engineering. I also developed and taught refresher courses for the FE (fundamental of engineering exams) and PE (professional engineering exams). **University of Wisconsin, Madison** - I developed and taught a series of short courses through UW-Madison's professional development department, delivered on UW-Madison's campus and throughout the country (UCLA, Berkeley, and Cincinnati). Furthermore, I have coordinated and presented at numerous university events such as campus visit days, open houses, and preview days, and so on.

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## SELECT EDITORIAL AND REVIEWS

- ◆ Associate editor, ASCE Journal of Materials in Civil Engineering.
  - ◆ Associate editor, ASCE Journal of Civil Engineering Education (replaced the following journal).
  - ◆ Associate editor, ASCE Journal of Professional Issues in Engineering Education and Practice.
  - ◆ Member of the editorial board, ASCE Journal of Performance of Constructed Facilities.
  - ◆ Member of the editorial board, journals published by the Institute of Civil Engineers (ICE) in UK.
  - ◆ Reviewer of multiple papers for the INTERNATIONAL conference on Smart Monitoring, Assessment and Rehabilitation (SMAR) of Civil Structures.
  - ◆ Reviewer for the Journal of TRB (Transportation Research Board).
  - ◆ Reviewer for the National Science Foundation (NSF) proposals.
  - ◆ Reviewer for the Journal of International Consortium on Landslides.
  - ◆ Reviewer for the Journal of the American Society of Engineering Education (ASEE).
  - ◆ Reviewer for the annual ASEE conference papers.
  - ◆ Reviewer for the ASCE Journal of Environmental Engineering (JEE) – special edition on: waste containment barrier materials, H.I. Inyang, guest editor, R. Arnold, editor.
  - ◆ Served as an external reviewer for several P&T cases.
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## SELECT TECHNICAL COMMITTEE ACTIVITIES

- ◆ Invited member of the scientific committee for the Global Experts Meet on Civil, Architectural and Environmental Engineering (GEMCAE22), Rome, Italy.
- ◆ Member of the national ASEE projects board.
- ◆ Member of the national ASCE technical committee on emerging materials.
- ◆ Member of the national ASCE technical geophysical committee.
- ◆ Member of the ASEE materials committee.
- ◆ Member of the scientific committee for several international conferences on smart monitoring,

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- ◆ assessment and rehabilitation (SMAR) of civil structures.
  - ◆ Member of the organizing committee for the joint structural and geotechnical congress, Phoenix AZ.
  - ◆ Moderator for three sessions at the CEO (Collegiate Entrepreneurship Organization) national pitch competition, Orlando, FL.
  - ◆ Moderator at the ASEE-PSW (American Society for Engineering Education, Pacific Southwest Section) conference, “Engagement, Collaboration and Innovation in Engineering Education,” Cal Poly, San Luis Obispo.
  - ◆ Moderator for the structural education applications in architectural engineering, annual ASEE (American Society of Engineering Education) Conference, Vancouver, BC, Canada.
  - ◆ Member of the ASEE’s community engagement in engineering education committee.
  - ◆ Member of the TRB committee on transportation earthworks, AFS10.
  - ◆ Chairman of the organizing committee for the joint Intermountain Conference on Environment (ICE) and Engineering Geology and Geotechnical Engineering Symposium (EGGES), Idaho State Univ.
  - ◆ Organized a session at the 86th annual Transportation Research Board Meeting entitled, “Use of Smart Equipment in Earthwork Construction,” with J. Sheahan.
  - ◆ Organized a session entitled, Civil Infrastructure Implementation, at the fourth international workshop in structural health monitoring, Stanford University.
  - ◆ Advisory member of the BEST summer program, Norwegian Technical University of Science and Technology (NTNU).
  - ◆ Chairman of the session on composite pipes and bridge decks at the 14th International Conference on Composite Materials, ICCM-14, San Diego, CA.
  - ◆ Chairman of the ninth annual Great Lakes Geotechnical / Geo-environmental Conference (GLGGC IX): *Slip Slidin’ Away – contemporary solutions to land mass stabilization.*
  - ◆ Member of the committee on subsurface soil-structure-interaction (A2K04), Transportation Research Board (TRB), National Research Council.
  - ◆ Member of the congress directorate, Alliance 1000, the World Congress on Disaster Reduction, sponsored by the ASCE’s Council on Disaster Reduction.
  - ◆ Member of the organizing committee, infrastructure: technology and materials for the next millennium, sponsored by the Dayton section ASCE - National Composite Center.
  - ◆ Founder of the Miami Valley Pavement (MVP) Coalition. Chairman of the Miami Valley Pavement (MVP) seminar, pavement infrastructure challenges at the dawn of the 21st century, American Society of Civil Engineers 20th Annual Seminar – Dayton Section (Net: \$4,500, earmarked toward education fund for UD’s Civil Engineering Department).
  - ◆ Member of the ASCE’s Council on Disaster Risk Management
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### SELECT SERVICE ACTIVITIES AND COMMUNITY ENGAGEMENT

- ◆ Member of the advisory board, Purdue NSF-funded model-base systems engineering (MBSE) project.
- ◆ Member of the Ivy Tech Engineering Technology Advisory Board.
- ◆ Member of Indiana Tech’s College of Engineering & School of Computer Sciences Advisory Board.
- ◆ Member of the Purdue Fort Wayne team for the Higher Learning Commission (HLC) ASL Academy results forum - presented our final assessment plan at Q Center, St. Charles, IL.
- ◆ Member of the ASCE committee on accreditation operation (COAO).
- ◆ Member of the Purdue Fort Wayne’s HLC advisory council.
- ◆ Senior ABET program evaluator (‘PEV’) – for both, domestic and international civil engineering programs. Also, mentor to ABET program evaluator candidates.
- ◆ Member of the university leadership team for strategic planning process at Purdue Fort Wayne.
- ◆ Co-Chair of the aspiring diversity, equity, and inclusion team at Purdue Fort Wayne.
- ◆ Member of the steering committee for the annual Japan-Northeast Indiana summit.

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- ◆ Representative of the Purdue Fort Wayne to Elevate Venture, Northeast Indiana.
  - ◆ Member of the search committee for the vice chancellor for development, Purdue Fort Wayne.
  - ◆ Member of the search committee for the associate VC for communications and marketing position.
  - ◆ Member of the search committee for the executive director of career services, Purdue Fort Wayne.
  - ◆ Founder of the living-learning community of Purdue Fort Wayne.
  - ◆ Member of the founders collaborative, Northeast Indiana's Entrepreneurship Committee.
  - ◆ Member of the Purdue Fort Wayne academic senate.
  - ◆ Member of the deans council, Purdue University, Fort Wayne.
  - ◆ Member of the academic officers council (AOC) and enrollment management.
  - ◆ Member of the student housing advisory board at Purdue University, Fort Wayne.
  - ◆ Member of the California Homebuilding Foundation Board of Trustees.
  - ◆ Member (and Chair) of Multiple RTP (retention, tenure, and promotion) committees.
  - ◆ Member of the search committee for the director of the Smittcamp Honors College.
  - ◆ Member of the search committee for the director of admission, records, and evaluations.
  - ◆ Member of the search committee for the director of financial aid.
  - ◆ Member of the student design competition planning committee, facilitated by the Northern California Community Load Fund (NCCLF).
  - ◆ Member of the campus organizing committee for the national hunger and homelessness awareness.
  - ◆ Member of the ASEE's community engagement in engineering education committee.
  - ◆ Member of the selection committee for Fresno's Chaffee zoo expansion project proposals, facilities master plan – Africa Exhibit.
  - ◆ Founding member of the rural development center, CSU-Fresno.
  - ◆ Founding member of the Project Management Institute-Central Valley Forum (PMI-CVF) student chapter.
  - ◆ Lowell neighborhood project – representing the Lyles College of Engineering (along with Prof. L. Crask) via EPICS (Engineering Project in Community Service).
  - ◆ Future City Competition – sponsored a special award (\$300 by Department of Civil & Environmental Engineering, College of Engineering, ISU) and served as a judge for assessing the projects, Boise, ID.
  - ◆ Member of the national STEM education committee.
  - ◆ ASEE campus representative.
  - ◆ Faculty advisor for EPICS (Engineering Projects in Community Service) at University of Dayton.
  - ◆ Faculty advisor for Habitat for Humanity at University of Dayton.
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### SELECT PROFESSIONAL DEVELOPMENT

- ◆ Certificate of completion in philanthropy fundamentals for academic leaders, conducted by the Academic Advancement Partners, 2020.
- ◆ Penn State's well-known year-long Academic Leadership Academy (ALA) program - spent a week training on campus, followed by additional virtual/webinar training throughout the year.
- ◆ Higher Learning Commission (HLC) annual conference - participated in a series of pre-conference workshops related to assessments, student success, and accreditation.
- ◆ Engineering deans forum on broadening participation, jointly sponsored by ASEE and NSF, Washington, D.C., invited, expenses covered.
- ◆ Constructal workshop, Villanova University, sponsored by NSF, invited, expenses covered.
- ◆ Management development program, Harvard University Graduate School of Education.
- ◆ Collegiate Entrepreneurship Organization (CEO) workshop series, held annually in Chicago, IL and Orlando, FL.
- ◆ Executive leadership program, UC Berkeley.

- ◆ Experiential classroom XV entrepreneurship workshop, University of Florida. All expenses covered by the Coleman Foundation.
- ◆ Professional fundraising workshop for deans and academic leaders, conducted by the advancement resources, sponsored by the California State University Chancellor's Office, held at San Francisco State University's campus.
- ◆ Invited to the first-year engineering program workshop, UC Irvine.
- ◆ Invited to the Hewlett Foundation Engineering Schools of the West Initiative (ESWI): everyone's first engineering class, Bozeman, MT.
- ◆ A 3-day field trip/tour of various construction projects in the Bay Area as a part of the 4th annual Kiewit Professors' Tour.
- ◆ Workshop for developing and sustaining productive graduate research groups in engineering, organized by Virginia Tech, sponsored by NSF, Arlington, VA.
- ◆ Participated in multiple workshops/sessions related to community service projects at the 14<sup>th</sup> annual continuums of service conference in San Diego, CA.
- ◆ Participated in a SB-1440 (student transfer Achievement Reform Act – STAR) Workshop, Merced College, CA.
- ◆ Workshop related to recruitment, retention and professional development of STEM female faculty, sponsored by National Science Foundation (organized by Cal Poly Pomona).
- ◆ Participated in several workshops organized for the *development officers* by ISU Foundation.

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### SELECT SPONSORED RESEARCH AND GRANTS

- ◆ “Mastodon Opportunity To Increase Varied Attitudes Towards Equity (M.O.T.I.V.A.T.E.) STEM,” Sponsor: NASA Diversity Grant, January 2022 – June 2022, Co-PI, Pending.
- ◆ “Creating a STEM Pathway from Exploration to Career.” Sponsor: General Motors Corporate Giving, \$30,000, 2021-2022. With Assistance of ETCS Outreach Division.
- ◆ “Stimulating STEM Interest for the 2021 Education.” Sponsor: The Lincoln Financial Foundation, \$25,000, 2021-2022. With Assistance of ETCS Outreach Division.
- ◆ “Indiana Connected Health IoT Lab.” Sponsor: the Economic Development Administration - 2018 Regional Innovation Strategies Program - i6 Challenge, \$750,000. Consortium of 12 Different Organizations (Combination of Industry, Innovation Centers, and Universities), Led by Northeast Indiana Innovation Center (NIIC). Purdue Ft. Wayne's Liaison.
- ◆ “Building a Diverse Program with a STEM Growth Mindset.” Sponsor: Northern Indiana Public Service Company (NIPSCO) – Part of NiSource, \$10,000, 2020-2021. With Assistance of ETCS Outreach Division.
- ◆ “Creating an Industry 4.0 Advanced Manufacturing Environment in NE Indiana: Proposal for Discovery and Development.” Sponsors: Local Foundations (\$400K to \$1.5 million) - Pending.
- ◆ “Future Girls of STEM.” Sponsor: General Motors Foundation, \$10,000. ETCS Outreach Division.
- ◆ “Develop a World Class Residential Track in Construction Management Program, Lyles College of Engineering, California State University, Fresno.” Sponsor: National Association of Home Builders (NAHB) through H.E.L.P. (Homebuilding Education Leadership Program) Grant, National Housing Endowment (NHE), PI, \$100,000, 2015-2020.
- ◆ “CSU STEM AmeriCorps\*VISTA (Volunteers In Service To America)” Award, Sponsored by the CSU Chancellor's Office Center for Community Engagement (CCE) through a Grant from the Corporation for National and Community Service (CNCS), July 14, 2014 – July 14, 2015 (in Collaboration with Y. Luo), ~\$15,000 paid to the STEM volunteer for living expenses.
- ◆ “Granite-Boitano Future Leaders in Construction Management.” Sponsored Jointly by the Granite Construction and Lyles Challenge Grant, PI, \$200,000, 2012-2015.

- ◆ “Construction Management Entrepreneurship.” Sponsor: The Coleman Foundation and the Lyles Center for Innovation and Entrepreneurship, PI, \$5,000, 2012-2013.
- ◆ “Seismic Responses of MSE Bridge Walls Using Accelerated Alternative Backfill Materials with Recycled Tire Shreds and Lightweight Expanded Aggregates,” Sponsor: Caltrans (California Department of Transportation), Co-PI, \$38,740, 2012-2013.
- ◆ “Direct Assessment of Student Learning Outcomes via Quantitative Measures.” Collaboration among Five Engineering Programs & Construction Management Program, Sponsor: Institutional Research, Assessment and Planning (IRAP), California State University, Fresno, PI, \$20,000, 2011-2012.
- ◆ “Assessing the Impact of using Failure Case Studies in the Classroom.” Sponsor: NSF’s CCLI (Course, Curriculum, and Laboratory Improvement) Phase II Program, Subcontract to Cleveland State University (as the PI), \$500,000 (Consortium of 12 Institutions); PI of the California State University, Fresno, 2009-2012.
- ◆ “Improvement of the Idaho Chip Seal Surface Treatments.” Sponsor: Idaho Transportation Department (ITD), PI, \$68,000, 2008-2010.
- ◆ “Lime-Fly Ash Stabilization of Pavement Subgrade Soils, Base, and Recycled Asphalt,” Sponsor: Idaho Transportation Department, PI, \$82,000, 2008-2010.
- ◆ “Airfield Matting Systems for Emergency Landing Applications,” Sponsor: Air Force Research Laboratory – Wright Patterson Air Force Base (WPAFB), In Charge of the Soil-Structure Interaction and Constitutive Soil Modeling (Co-PI) , Total Amount: \$185,000, 2006-08.
- ◆ “Clinton Street and Hopkins Street Bridge Assessments, Design, and Monitoring,” Sponsored by the Federal Highway Administration (FHWA) through Innovative Bridge Research and Construction (IBRC) Program, PI, \$250,000, 2002-2007.
- ◆ “Nondestructive Evaluation of StressHead System and Post-tensioned CFRP Composite Strips,” Sponsor: Sika Corporation, PI, \$10,000, 2003-2005.
- ◆ “Bio-Engineering Techniques for Landslide Stabilization – An International Research Collaboration between University of Dayton and International Center for Geohazards,” Sponsor: Ohio Board of Regents, PI, \$9,000, 2004-2005.
- ◆ “Structural Health Monitoring of the Tech21 All-Composite Vehicular Bridge,” Sponsored by the Federal Highway Administration (FHWA), PI, \$75,516, 1999-2003.
- ◆ “Seamless Integration of the Engineering Geology and Geotechnical Engineering,” Sponsored by the University of Dayton’s Fund For Educational Development (FED), PI, \$6,000.00, 2003-2004.
- ◆ “Anatomy of Landslides: An Interdisciplinary Study Abroad Program in Geology and Civil Engineering,” to Develop and Team-Teach a Geohazards Course in Norway in Conjunction with NGI and NTNU, Sponsored by the University of Dayton’s Honor & Scholars Program via the Fund For Educational Development (FED), CEE’s PI, \$6,000.00, 2003-2005.
- ◆ “Pollution Prevention Incorporated within the Core Curriculum,” Sponsored by the Ohio Environmental Protection Agency (EPA), Member of the Marketing and Oversight Committee, \$50,000.00, 2002-2003.
- ◆ “Scour Evaluation and Design Methodology for Small-Span Bridges,” Sponsored by the School of Engineering, UD, Research and Graduate Study Enhancement Fund, PI, \$14,863.00, 2003-2004.
- ◆ “Bridge Monitoring Data Acquisition System,” Co-Sponsored by the Ohio Board of Regents, University of Dayton Research Institute’s Aerospace Division, School of Engineering (Dean’s Fund), and Department of Civil & Environmental Engineering, Co-PI, \$75,000.00, 2000-2002.
- ◆ “Analytical Investigation and Condition Assessment of Precast Concrete Skewed Bridges with High Aspect Ratios,” Sponsored by the School of Engineering, University of Dayton – Research and Graduate Study Enhancement Fund Scholarships, PI, \$12,500, 2001-2002.
- ◆ “Structural Health-Monitoring and Condition Assessment of Fiber-Reinforced Polymer Composite Bridge Decks,” Sponsored by the School of Engineering, University of Dayton – Research and Graduate Study Enhancement Fund Scholarships, PI, \$12,500, 2001-2002.

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- ◆ “Influence of Haunches on the Design of Short-Span Precast Concrete Skewed Bridges with Integral Abutment walls,” Sponsored by the Ohio Department of Transportation, PI, \$10,944, 2000-2001.
  - ◆ “Structural-Identification-Based Condition Assessment of A Fiber-Reinforced Polymer Composite Bridge,” Ohio Board of Regents Challenge Grant, PI, \$34,500, 1999-2000.
  - ◆ “Identifying Potential Collapse Features Under Highways,” Ohio Department of Transportation, In Conjunction with the Department of Geological Sciences at WSU, UD’s PI, \$145,000, 1998-2000.
  - ◆ “The Structural Analysis, Design, and Prototype Testing of Three-Sided Small-Span Skewed Bridges,” Ohio Department of Transportation, PI, \$98,269, 1998-2000.
  - ◆ “Investigation of the Landslide Mechanisms in Southwestern Ohio,” The Ohio Board of Regent (OBOR) Challenge Grant, and City of Cincinnati, PI, \$29,000, 1996-97.
  - ◆ “Seismic Sounding System,” Sponsor: Ohio Board of Regents – Via Ohio Infrastructure Institute (OII), Capital Fund, PI, \$75,000, and 1994.
  - ◆ “Predicting Performance of Long-Span Precast Concrete Arch Culverts,” Sponsors: Ohio Department of Transportation (ODOT), CON/SPAN Bridge Systems, & ESSROC Materials, Inc., PI, \$25,000 (Including In-Kind Support), 1992-93.
  - ◆ “Predicting the Performance of CON/SPAN Wingwalls,” Sponsors: Research Council Grants, University of Dayton, and CON/SPAN Bridge Systems, PI, \$8,200, 1993-94.
  - ◆ “Municipal Pavement Evaluation and Rehabilitation Procedures,” The Research Council Grant, University of Dayton - PI, \$11,000, 1997-98.
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### SELECT PUBLICATIONS

I have published more than 100 combination of peer-reviewed journal and conference proceeding articles, book chapters, research reports, and an international handbook. A partial list is included here.

#### Books, Book Chapters, and Special Publications

- ◆ **Zoghi, M.**, Editor-in-Chief, The International Handbook of FRP Composites in Civil Engineering, CRC-Press (Taylor & Francis Group), Boca Raton, Florida, September 2013.
- ◆ **Zoghi, M.**, Bowers, M., and Mahar, J., Why the Land Slides, CRC Press (Taylor & Francis Group), Boca Raton, Florida, in Progress.
- ◆ **Zoghi, M.** and Plews, P., and Foster, D.C., “Structural Response, Health-Monitoring, and Performance Evaluation of CFRP Post-Tensioned, In-Service, Long-Span, Precast/Prestressed Box Girder Bridges,” a Chapter in FRP Composites for Infrastructure Applications – Focusing on Innovation, Technology Implementation and Sustainability, R. Jain and L. Lee Editors, Springer, NY, Jan 1, 2012, pp 219-237.
- ◆ Popescu, M. and **Zoghi, M.**, “Landslide Risk Assessment and Treatment,” Chapter in Monograph of Infrastructure Risk Management Processes: *Natural, Accidental, and Deliberate Hazards*, Council on Disaster Reduction and Technical Council on Lifeline Earthquake Engineering, ASCE, Reston, VA, May 2005.
- ◆ **Zoghi, M.**, Editor, Slip Slidin’ Away – Contemporary Solutions to Land Mass Stabilization, Proceedings of the Ninth Annual Great Lakes Geotechnical / Geo-environmental Conference (GLGGC IX), 11 May 2001.
- ◆ **Zoghi, M.**, Sprague, J., and Allen, S., “Emerging Geomaterials for Ground Improvement,” Chapter 3 in Emerging Materials for Civil Engineering Infrastructure, State-of-the-Art, Edited by R.A. Lopez-Anito and T.R. Naik, ASCE, Reston, VA, 2000, pp. 79-115.
- ◆ **Zoghi, M.**, Richard, B.H., and Hauser, E., “Geophysical Survey Techniques for Identifying The Potential Collapse Features under Highways,” ASCE Geo-Institute Special Publication, Denver, Colorado, August 5-8, 2000.
- ◆ **Zoghi, M.**, Fenza, D., and Hastings, J., “Effects of Earthquakes on Highway Bridge Abutments,” ASCE Specialty Publication - Natural Disaster Reduction, Washington, D.C., December 3-5, 1996.



- ♦ **Zoghi, M.**, and Rinehart, K., “The Integrated Flood Control System of the Great Miami Valley,” ASCE Specialty Publication - Natural Disaster Reduction, Washington, D.C., December 3-5, 1996.
- ♦ **Zoghi, M.**, and Bodocsi, A., “Emerging Technologies in Ground Modification for Environmental Control,” Chapter 1, Encyclopedia of Environmental Control Technology, Gulf Publishing Company, Paul N. Cheremisinoff, Editor, 1995.

### Research Reports

- ♦ Xiao, M., Tehrani, F., **Zoghi, M.**, Seismic Responses of MSE Walls Using Accelerated Alternative Backfill Materials with Recycled Tire Shreds and Lightweight Aggregates,” Final Report No. CA 13-2416, Submitted to the California Department of Transportation, 1 August 2013.
- ♦ **Zoghi, M.**, Bengiamin, N., Sorensen, I., Hyatt, B., Ogaja, C., Choo, C., Kriehn, G., Direct Assessment of Student Learning Outcomes via Qualitative Measures, Final Report, Submitted to the Office of Institutional Effectiveness (OIE), California State University, Fresno, 20 June 2012.
- ♦ **Zoghi, M.**, Ebrahimpour, A., Pothukutchi, V., Improvement of the Idaho Chip Seal Surface Treatments, Final Report, Submitted to the Idaho Transportation Department (ITD) and Federal Highway Administration (FHWA), August 2010.
- ♦ **Zoghi, M.**, Mahar, J., Yosief Araya, M., Katamaneni, P., Lime-Fly Ash Stabilization of Pavement Subgrade Soils, Base, and Recycled Asphalt, Final Report, Submitted to the Idaho Transportation Department and Federal Highway Administration, August 2010.
- ♦ **Zoghi, M.**, Foster, D.C., Plews, P., Structural Health Monitoring and Evaluation of Hopkins Street Bridge and Clinton Street Bridge, Final Report, Submitted to the Ohio Department of Transportation (ODOT) and the Federal Highway Administration (FHWA), May 2008.
- ♦ **Zoghi, M.**, Bio-Engineering Landslide Stabilization, Final Report, Ohio Board of Regents, April 2006.
- ♦ **Zoghi, M.**, and Bowman, D.R., Structural Health Monitoring of the Tech 21 All-Composite Vehicular Bridge, Final Report, Submitted to the Ohio Department of Transportation (ODOT), March 2003.
- ♦ Farhey, D.N., **Zoghi, M.**, and Gawandi, Anis, The Structural Analysis, Design, and Prototype Testing of Three-Sided Small-Span Skewed Bridges, Final Report Submitted to the Ohio Department of Transportation, May 2002.
- ♦ **Zoghi, M.**, and Hastings, J., Predicting the Ultimate Load Carrying Capacity of a Long-Span Arch Culvert, Final Report, Submitted to the Ohio Department of Transportation (ODOT), State Job No. 14595(0), April 1997.
- ♦ **Zoghi, M.**, Field Load Test and Evaluation of a CON-SPAN Bridge, Final Report, Submitted to Ohio Department of Transportation (ODOT), January 1994.
- ♦ Phillips, N.S., and **Zoghi, M.**, Soil Bed Preparation, Measurement and Reconstitution Plans, Final Report Submitted to the Air Force Flight Dynamics Lab at WPAFB, Dayton, Ohio, December 1987.

### Select Refereed Articles in Archival Journals and Conference Proceedings

- ♦ Johnson, K., Huffman, D., **Zoghi, M.**, Stumph, C., Leatherwood, M., McDonald, K., Swim, T., Hersberger, J., K., Stoller, Drouin, M., “Toward a New Conceptualization of Assessment Culture as Institutionalizing Assessment in a Learning Culture: The Purdue Fort Wayne Assessment Academy Project” (Pending).
- ♦ Tehrani, F.M., **Zoghi, M.**, Xiao, M., “A Numerical Simulation of Mechanically-Stabilized Wall,” Proceedings of the 5<sup>th</sup> International Conference on Geotechnical Engineering and Soil Mechanics, Tehran, Iran, 15-17 September 2016.
- ♦ Forsythe, L.M., Davis, L., Mueller, J., Whitehead, C., **Zoghi, M.**, “How to Get Started – Helping Entrepreneurs Understand Business Entities,” Proceedings of the United States Association for Small Business and Entrepreneurship (USASBE), Selected as a Finalist Outstanding Workshop Award, San Diego, CA, 8-12 January 2016.
- ♦ **Zoghi, M.**, “A Proposed Grand Challenges Scholars Program in the Lyles College of Engineering,” Proceedings of the ASEE - Pacific Southwest Section Annual Conference, National University, San-

- Diego, CA, 10-11 April 2015.
- ◆ **Zoghi, M.**, Foster, D.C., “Durability Characteristics of the Tech 21 Bridge,” Proceedings of the 3<sup>rd</sup> Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Antalya, TR, 7-9 September 2015.
  - ◆ Munjy, H., Tehrani, F.M., Xiao, M., and Zoghi, M., “A Numerical Simulation on the Dynamic Response of MSE Walls with LWA Backfill,” Proceedings of the Numerical Methods in Geotechnical Engineering – Hicks, Brinkgreve & Rohe (Eds), Taylor & Francis Group, London, 2014.
  - ◆ **Zoghi, M.**, “Applications of the Advanced FRP Composites to Restore and Improve Urban Infrastructure,” Proceedings of the Engineering Leaders for Grand Challenges, Doha, Qatar, 9-11 November 2014.
  - ◆ **Zoghi, M.**, Maldonado, H., and Martinez, S., “Initiatives to Improve Student Success and Retention in the Lyles College of Engineering,” Proceedings of the ASEE Zone IV Conference, California State University, Long Beach, April 24-26, 2014.
  - ◆ **Zoghi, M.**, Farhey, D., Gawandi, A., “Influence of Haunches on Performance of Precast-Concrete Short-Span, Skewed Bridges with Integral Abutment Walls,” ASCE Journal of Performance of Constructed Facilities, Volume 22, Issue 2, pp. 101-107, March/April 2008.
  - ◆ **Zoghi, M.**, and Foster, D.C., “Preservation of Hopkins Street Bridge via Externally Bonded Prestressed CFRP Laminates,” Bridge Structures Journal, Taylor & Francis, Volume 3, No. 2, pp. 133-146, June 2007.
  - ◆ **Zoghi, M.**, Farhey, D.N., “Performance Assessment of a Precast-Concrete Buried Arch Bridge,” ASCE Journal of Performance of Constructed Facilities, Vol. 20, No. 3, August 2006.
  - ◆ Farhey, D., and **Zoghi, M.**, “In-Service Analytical Investigation of Precast-Concrete, Short-Span, Skewed Bridges with Integral Abutment Walls,” International Journal of Advances in Structural Engineering, Vol. 9, No. 2, 2006.
  - ◆ **Zoghi, M.**, Foster, D.C., “Post-Strengthening Prestressed Concrete Bridges via Post-Tensioned CFRP Laminates,” SAMPE Journal, Infrastructure/Civil Engineering Technology Issue, March/April 2006.
  - ◆ **Zoghi, M.**, Foster, D.C., White, D., and Schulz, J., “Field Testing and Evaluation of Prestressed Concrete Bridges Prior to and Following FRP Composite Strengthening,” Proceedings of International Bridge Conference, Pittsburgh, PA, June 12-14, 2006.
  - ◆ Foster, D.C., Tandon, G.P., and **Zoghi, M.**, “Evaluation of Failure Behavior of Transversely Loaded Unidirectional Model Composites,” Journal of Experimental Mechanics, Invited Paper, Volume 46, No. 2, April, 2006.
  - ◆ Al-Hulwah, K., Kashani, A.R., **Zoghi, M.**, “Tuned Damping of Floor Vibration,” International Mechanical Engineering Congress and Exposition, Orlando, Florida, Nov. 5-11, 2005.
  - ◆ Foster, D.C., Tandon, G.P., and **Zoghi, M.**, “Evaluation of Failure Criteria for Transversely Loaded Unidirectional Model Composite,” Proceedings of Society of Experimental Mechanics Annual Conference, Portland, Oregon, June 6-9, 2005.
  - ◆ Foster, D.C., and **Zoghi, M.**, “Repair of Clinton Street Prestressed Concrete Beams by Post-Tensioned Bonded Carbon Fiber Strips,” Proceedings of Society for the Advancement of Material and Process Engineering, SAMPE, Symposium and Exhibition, Long Beach, CA, May 11-15, 2005.
  - ◆ **Zoghi, M.**, Schulz, J., Plews, P. and Foster, D., “Nondestructive Load Testing and Evaluation to Identify Structural Health of Prestressed Concrete Bridges,” Proceedings of the International Workshop on Structural Health Monitoring, Stanford University, Stanford, CA, September 15-17, 2003.
  - ◆ **Zoghi, M.**, Foster, D.C., and Bowman, D., “Design, Fabrication, Installation, and Testing of a Triple-Box Girder Composite Structure,” Proceedings of the 14th International Conference on Composite Materials, ICCM-14, San Diego, CA, July 14-18, 2003.
  - ◆ Foster, D.C., Tandon, G.P., and **Zoghi, M.**, “Damage Initiation in Multi-Fiber Cruciform Specimens Under Transverse Loading,” Proceedings of the 14th International Conference on Composite Materials, ICCM-14, San Diego, CA, July 14-18, 2003.
  - ◆ Foster, D.C., Tandon, G.P., and **Zoghi, M.**, “Experimental Techniques Used for Observation of

- Transverse Failure Initiation,” Proceedings of Society for the Advancement of Material and Process Engineering, SAMPE, Symposium and Exhibition, Long Beach, CA, May 11-15, 2003.
- ◆ Foster, D.C., Tandon, G.P., Zoghi, M., and Pagano, N.J., “Failure Initiation in a Multi-Fiber Cruciform Specimen Under Transverse Loading,” ASME International Mechanical Engineering Congress and Exposition, New York, NY, November 11-16, 2001.
  - ◆ Safferman, S., **Zoghi, M.**, and Farhey, D., "Holistic First Year Civil & Environmental Engineering Design Experience," Journal of American Society of Engineering Education, October 2001.
  - ◆ Farhey, D.N., **Zoghi, M.**, Foster, D.C., and Stoll, F. “Performance of An All-Composite Material Bridge,” Proceedings of the 2nd International Conference on Engineering Materials, San Jose, CA, 16-19, August 2001.
  - ◆ **Zoghi, M.**, and Sullivan, L., “Earthquake-Induced Landslide Hazards Analysis and Mitigation in the New Millennium,” Proceedings of the International Conference on Landslides – Causes, Impacts and Countermeasures, H. Einstein, Editor, 17-21 June 2001, Davos, Switzerland.
  - ◆ Stoll, F., Farhey, D.N., **Zoghi, M.**, and Foster, D.C., “Structural Health Monitoring of the Tech21 Composite Bridge, Proceedings of the 7th International Conference on Composites Engineering, Denver, Colorado, July 2000.
  - ◆ Foster, D.C., Farhey, D.N., **Zoghi, M.**, and Stoll, F., “Long-Term Monitoring of a Composite Bridge,” Proceedings of the American Society for Composites 14th Technical Conference, September 27-29, 1999, Dayton, Ohio.
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