



Dr. R. Edward Minchin Jr., P.E.
UF Research Foundation Professor
UF Term Professor
Holland Professor
M.E. Rinker Sr. School of Construction Management
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AREAS OF SPECIALIZATION

Dr. Edward Minchin is currently Professor at the M.E. Rinker Sr. School of Construction Management at the University of Florida. He regularly teaches a graduate course entitled “Methods for Graduate Research,” along with graduate and undergraduate courses in Heavy / Civil / Industrial Construction. In a 34-year career, Dr. Minchin has worked as part of eight major areas of the construction process. **He has been a laborer, construction contractor, designer, inspector, construction owner, researcher, consultant, and adjudicator.**

After working as an estimator for a major highway construction contractor, Dr. Minchin joined the Florida Department of Transportation (FDOT) as a **designer**. In that capacity, Dr. Minchin was involved in the design of highways, bridges and storm drainage systems. He is registered as a Professional Engineer in the state of Florida and is Designer-of-Record for an earth dam in Okaloosa County, Florida and the county road that runs across the top of the dam.

After leaving the design area, Dr. Minchin re-entered the construction area, working as a construction **inspector**, then Resident Construction Engineer, where he was in responsible control of all highway and bridge construction in a four-county area, overseeing a workforce of 35 construction inspectors and project managers. This was the beginning of his time as an administrator, and he served as the “**owner**” of over 50 highway and bridge construction projects. Moving from the field to FDOT’s Central Construction Office, he rose to the position of Chief Area Construction Engineer (today called the Assistant State Construction Engineer). In this position, he initiated FDOT’s first Quality Assurance Program, participated in FDOT’s pioneering \$50,000,000 Design-Build Pilot Study, served as a reviewer of FDOT’s first Design-Build project Request for Proposals, and was responsible for the authoring and overseeing annual updates to FDOT’s Construction Project Administration Manual, the book that FDOT used to administer their \$600,000,000 (now \$3billion-plus) annual transportation construction program.

As a **researcher**, Dr. Minchin’s areas of expertise and research interest include Construction Supply Chain Integrity (emphasis on counterfeit materials and products), Construction Project Delivery Methods, and Construction Contract Disputes Resolution. He was recently awarded a

University of Florida Research Foundation Professorship, an award bestowed on the Top 99 researchers at the university. He has been part of several million dollars in research grants, most as Principal Investigator (PI). He has presented keynote addresses to international conferences in China, Canada and Thailand, and has been part of almost \$4.5 million in research grants in his 19 years as a professor, almost \$3.0 million as PI. In that time, he has authored over 130 published manuscripts and reports, including over 90 refereed publications (two books, over 35 refereed journal papers, seven book chapters, over 40 refereed proceedings and a magazine article). Dr. Minchin's career as a researcher has been characterized by a narrowing of his Areas of Specialization from the many and varied areas that he pursued early in his career, to the more specialized research that he does today. After 14 years in industry, Dr. Minchin entered academia with several areas of interest. The first few years in academia saw a further broadening of his areas of specialization as he was exposed to more and more interesting research possibilities. However, the nearly 10 years spent at the Rinker School has seen Dr. Minchin's reputation grow to the point that he can be more selective of the activities in which he gets involved, including the research that he pursues and the papers that he writes. This has brought about a narrowing of his areas of specialization to include only those areas for which he has achieved the greatest repute. Dr. Minchin now spends over 90% of his research and consulting effort on three academic areas: 1) Alternative Methods for Construction Project Delivery and Administration; 2) Construction Supply Chain Integrity and Security (with an emphasis on counterfeit construction commodities), and 3) Construction Contract Claims Avoidance and Dispute Resolution. In the last seven years, Dr. Minchin has been invited to deliver four keynote speeches at construction management conferences in China, Canada, Panama and Thailand. Also, Dr. Minchin was recognized for the Best Paper at the top international construction conference in Finland (topic: Alternative Methods for Construction Project Delivery).

As a professor, Dr. Minchin has supervised (advised) 10 PhD students, graduating five. Three have joined university faculties in China, Jordan and Korea, one of which is Civil Engineering Department Chair. Two other graduated advisees are officially and properly credited to professors in the Civil and Coastal Engineering Department because the students graduated after Dr. Minchin transferred to the College of Design, Construction and Planning (DCP). One additional student has only to complete his thesis to be awarded his PhD in Civil Engineering, and three others are current PhD students under Dr. Minchin in Construction Management. Only one of the 10 has discontinued efforts to obtain a PhD.

Dr. Minchin is certified by the state of Florida as a Professional Engineer and the International Disputes Resolution Foundation as a Disputes Resolution Board Member and a separate certification as Chair. As an **adjudicator**, he has sat on Disputes Resolution Boards for 27 highway and bridge construction projects worth nearly \$1Billion, 12 as Chair.

EDUCATIONAL BACKGROUND

Institution	Field of Study	Degree	Area of Emphasis
Pennsylvania State University	Civil Engineering	Doctor of Philosophy (PhD)	Construction Management
Harvard University	Liberal Arts	Master of Liberal Arts (ALM)	History
University of Florida	Civil Engineering	Master of Engineering (ME)	Construction Management
University of Florida	Civil Engineering	Bachelor of Science (BSCE)	Construction Management
Chipola College	Pre-Engineering	Associate of Arts (AA)	Pre-engineering

EMPLOYMENT

Academic Employment:

Institution	Position	Dates	Status
University of Florida	Professor	Aug. 2013 - Present	Tenure
University of Florida	Interim ASO Director Rinker School of C.M.	July, 2017 – July, 2018	n/a
University of Florida	Director of Master's Programs, Rinker	Aug. 2011 – July, 2018	n/a
Northeastern University	Visiting Scholar	Aug. 2015 – Aug. 2016	Non-tenure Accruing
University of Florida	Associate Professor	Aug. 2007 – Aug. 2013	Tenure
University of Florida	Assistant Professor	Aug. 2001 – Aug. 2007	Tenure Accruing
Iowa State University	Assistant Professor	Aug. 1999 – Aug. 2001	Tenure Accruing
PA Transportation Inst.	Faculty Associate	Aug. 1996 – Aug. 2000	Non-tenure Accruing
Penn State University	Lecturer	Aug. 1996 – Aug. 1998	Non-tenure Accruing

Industry Employment:

Florida Department of Transportation Nov 1992 - Aug 1996 Tallahassee, Florida	Chief Area Construction Engineer (Asst. State Const. Engr.)
Florida Department of Transportation Jun 1987 - Nov 1992 Crestview, Florida	Resident Construction Engineer
United States Navy Civil Engineer Corps Apr 1986 - Sep 1994 Jacksonville and Tallahassee, Florida	Reserve Officer - Const. Battalion
Florida Department of Transportation Dec 1985 - Jun 1987 Lake City, Florida	Drainage Design Engineer

Couch Construction Inc.
Aug 1984 - Feb 1985 Tampa, Florida

Estimator

Florida Department of Transportation
Jun 1977 - Dec 1981

Cooperative Engineering
Employee

Chipley and Gainesville, Florida (9 academic terms as full-time employee during this time)

ADMINISTRATIVE EXPERIENCE AND ACCOMPLISHMENTS

University of Florida

Interim Associate Director, M.E. Rinker School of Construction Management (2017 – 2018). Serving in this position, Dr. Minchin accomplished the following:

- Helped initiate the Master's in International Construction Management – Construction Productivity program that kicked off in the Spring Semester, 2018. The cohort is full – each seat is filled. This program is taught in Singapore through an arrangement with the Building Construction Authority of Singapore.
- Led in developing the Master's Degree in Construction Leadership – Based upon the model of an "Executive" MBA, students will earn a Master's degree in 16 months by attending courses one weekend a month at the Gainesville campus (all day Friday – Sunday), with supplemental information being disseminated online during the month between classes. The plan was for the first cohort to begin classes in the Fall Semester, 2020.
- Helped develop a Course for Continuing Education Credits – The faculty is working on a plan for the School to offer short courses for the purpose of issuing continuing education credits to participants. The focus as of now is to settle on course content and on establishing a business plan that makes sense for the school.
- Helped develop a Two-week short course for those in industry. This course would result in a certificate of completion. The focus as of now is to settle on course content and on establishing a business plan that makes sense for the school. Currently under consideration is to combine this course with the Course for Continuing Education Credits discussed above.
- Helped develop a program for Faculty Internships – This new initiative has two formats. The first is for faculty to spend 2-3 days working for a contractor at a time that best fits the schedule of the contractor and the faculty member; the second format is for the faculty member to work for an entire term (probably the summer) working for a contractor. Summer, 2018 will see the first round of these internships and response from contractors and faculty has been most encouraging. Funding for the endeavor is split between the school and the participating contractors.
- Changes to curriculum, software, hardware, and course content – Based on continuing interaction with industry through meetings with the School's Executive

Committee, Career Fairs and faculty internships, along with the internal analyses provided by the SACS and SLO processes, the School continues to make changes to curriculum, software, hardware, and course content.

Director of Master's Programs, M.E. Rinker School of Construction Management (Aug., 2011 – 2018)

- Lead the 11 Master's degree and certificate programs offered by the Rinker School. Responsible for all aspects of all construction programs, involved with Fire and Rescue graduate program.
- Got it in writing. Led production of Rinker School's first Graduate Student Handbook, which details all aspects of a student's life at the Rinker school, from application to graduation.
- Improved the quality of the graduate student body. Through recruiting and advertising effort, raised the number and quality of applicants to the point where the acceptance rate for the 2016 was approximately 18%, the lowest that anyone could remember.
- Aided in tearing down the wall between the design and construction schools and departments within the College of Design, Construction and Planning. Expecting 17 UF Architecture graduates to matriculate to the Master's Programs in the Rinker School immediately following Spring graduation. This is more than anyone can remember for a Summer Semester. More expected in the Fall Semester.
- Helped develop the procedure for setting and acquiring data for Student Learning Outcomes and SACS accreditation data.

Coordinator, Graduate Construction Program, Department of Civil and Ocean Engineering (Aug., 2002 – Aug., 2007)

- Led the three Construction Master's Programs offered by the department. Responsible for all aspects of the programs.
- Standardized the online program admissions process, making it equivalent to the brick-and-mortar program, and ending the confusion about the two processes that had existed since the inception of the online program.

Iowa State University

Coordinator, Graduate Construction Program, Department of Civil and Ocean Engineering (Aug., 2000 – Aug., 2001)

- Led the two Master's Programs offered by the program. Responsible for all aspects of the two programs.

Florida Department of Transportation

Chief Area Construction Engineer (Nov 1992 - Aug 1996)

- Led a group of nine professional engineers, each with a different area of technical expertise. Deployed these Area Construction Engineers as needed to trouble spots around the state.
- Developed and implemented the first Quality Assurance Program for FDOT, first executing the program in 1993 to all eight FDOT districts. Program still viable.
- Planned first Statewide Construction Conference. Conference is still an annual event attended by 1000 engineers and contractors around Florida each February.
- In responsible charge for production and maintenance of FDOT's procedures manual, the "Construction Project Administration Manual".

Resident Construction Engineer (Jun 1987 - Nov 1992)

- Led 35 Project Engineers and inspectors in two field offices. In responsible charge of all highway and bridge construction in four-county area of Florida.
- Awarded Value Engineering Stewardship Award for Chairing a VE team that saved FDOT over \$3million, 1992

United States Navy Civil Engineer Corps Reserve Officer - Const. Battalion (Apr 1986 - Sep 1994)

- Led 200 enlisted personnel and officers as Bravo Company Commander in a Construction Battalion (part-time).
- Earned Navy Achievement Medal for leading construction crews to construct a golf course and country club at Marine Corps Logistics Center, Albany, GA.

HONORS AND AWARDS

University / College / School

- **External Examiner** of the doctoral thesis presented by María Laura Montalbán Domingo; Department of Civil Engineering; Universitat Politècnica de Valencia, Valencia, Spain. Defense: November, 2019.
- **Highest Honors, Harvard University**, Master's in Liberal Arts (ALM), May, 2019.
- **Holland Professorship, 2019-23**; Named Holland Professor of Construction Management. Highest non-administrative professorship awarded by the Rinker School to a faculty member. One of three within the School.
- **University of Florida Term Professorship, 2018-22**; Created by UF to recognize faculty who have recent meritorious achievements above those of their peers. Theoretically recognizes the recipient as one of the Top 250 faculty members at the university over the last four years. One of six in the college. Received May 30, 2018.

- **University of Florida Research Foundation (UFRF) Professorship, 2018-22;** Created by UFRF to recognize faculty who have established a distinguished record of research and scholarship that is expected to lead to continuing distinction in their field. Theoretically recognizes the recipient as one of the Top 99 researchers at the university. Lone recipient within the college for AY 2018-19. Received April 10, 2018.
- **Rinker Professorship, 2011-2018.** Named Rinker Professor of Construction Management. Highest level of professorship awarded by the Rinker School to a faculty member. One of three within the School.
- **Holland Professorship, 2010.** Named Holland Professor of Construction Management. Second-highest level of professorship awarded by the Rinker School to a faculty member. One of three within the School.

International

- **2018 Best Paper Award, Scholarly Paper/Feature/Case Studies – American Society of Civil Engineers *Journal of Legal Aspects and Disputes Resolution*** Lead author. (May 2017 edition). "Chinese Organizations' Actions, Attitudes, and Motivations When Faced with Counterfeit Items in Their Construction Supply Chains." 2018.
- **Fellows Innovation Lecture** to “hundreds in the worldwide United Technologies community.” Lecture presented at East Hartford, Connecticut and broadcast around the world March 21, 2017.
- **Outstanding Reviewer Award;** *Construction Innovation: Information, Process, Management* in the Emerald Literati Network 2015 Awards for Excellence; Emerald Group Publishing Limited, Bingley, United Kingdom, 2015.
- **Keynote Address;** “Construction Supply Chain Integrity: Mitigating the Counterfeit Threat”; 2nd International Structural Engineering and Construction Australasia and Southeast Asia Conference, Bangkok, Thailand, 2014.
- **Keynote Address;** (Invited) “Counterfeit Product Concerns in Contemporary Construction Supply Chains”; Celebration of the 100th anniversary of the original opening and the re-opening of the Panama Canal and American Society of Civil Engineers 144th Annual Meeting; Panama City, Panama, 2014.
- **Keynote Address;** “The Steel Market and Counterfeiting: Impacts on the Economy”; First Steel Market and Counterfeiting Conference, organized by Cate’ Note’-Nord, Sept Iles, Quebec, Canada, 2014.

- **Keynote Address;** “Current Trends in the Use of Delivery Systems in the U.S.”; National Faculty – Industry Workshop; Beijing, China, 2009.
- **Best Paper Award;** Paper, entitled “CM-at-Risk Delivery System and The Miami Intermodal Center” was adjudged best paper among the 218 papers presented at the Conseil International du Batiment (cib) annual meeting in Helsinki, Finland, 2005.

National

- **U.S. Department of Justice, Certificate of Appreciation** for research into counterfeiting in the construction industry and address to the D.C. Counterfeit Microelectronics Working Group entitled “Sino-American Perceptions of Counterfeiting in the Construction Industry,” Washington, DC, 2013
- **Feature Article,** “Buyer Beware”, Based on research project “Product Integrity Concerns in Low-cost Sourcing Countries,” Explore Magazine, University of Florida, Spring Edition, 2012
- **Cover Story,** “Hot Commodities,” featuring research project for which Dr. Minchin was Principal Investigator. Engineering News Record, October 18 edition, 2010.
- **ASCE ExCEed Teaching Fellowship,** 2005.
- **Merrill - Lynch Innovative Grants Competition, National Runner-up -** Judged one of ten most marketable innovations in nationwide competition of all American university doctoral dissertation topics over three-year period. Awarded for “Asphalt Compaction Quality Control From Compactor Vibration Analysis,” 1999
- **Navy Achievement Medal,** Leadership of Construction Detachment, 1992.

State

- **Disputes Review Board – Pensacola Bay Bridge.** Named to and serve as a member of a three-person board to adjudicate the question of entitlement for contractor for claims of money and time resulting from disputes on the \$400,000,000-plus construction project, one of the largest highway/bridge construction projects in the history of the state of Florida. 2018 – 2021.
- **Florida Blue Key. Florida’s top leadership fraternity.** Tapped for lifetime of service and leadership, 2014. Incoming class included Dr. Minchin and sitting Governor of Florida, Rick Scott and Bill Heavener (Heavener Hall).

- **Video Wall Exhibit**, Florida Museum of Natural History, documenting the research project “Product Integrity Concerns in Low-cost Sourcing Countries,” 2011
- **Value Engineering Stewardship Award**, Florida DOT, 1992. Chaired Value Engineering team that saved the DOT \$3million.

PROFESSIONAL REGISTRATIONS

- Professional Engineer, State of Florida, #38739
- Member (Life), American Society of Civil Engineers
- Certified Chair, Disputes Resolution Board, Disputes Resolution Foundation
- Certified Member, Disputes Resolution Board, Disputes Resolution Foundation

CONSULTATIONS OUTSIDE THE UNIVERSITY

Date	Location	Work performed	Organization/ Employer
06/20 - Present	Nome, AK	Assisting Alaska Native regional tribal consortium KAWAREK in establishing a multi-faceted construction program using CM/GC and project bundling	KAWAREK Inc. / McKnight Engineering
02/20 - Present	Panama City, FL	Disputes Review Board; SR 390, Bay Co.	Phoenix Const. Co.
12/19 – Present	Tyndall AFB, FL	Disputes Review Board; Tyndall Flyover, Bay Co.	Florida Department of Transportation (FDOT)
12/19 - Present	Brooksville, FL	Chair , Disputes Review Board; SR 50, Hernando Co.	FDOT / Pepper Const. Services
03/18 - Present	Lecanto, FL	Chair , Disputes Review Board; Suncoast Pkwy. 2	FDOT / Lane Const.
07/17 – Present	Chipley, FL	Regional Disputes Review Board, Region Three	FDOT
06/18 – 05/19	Various	FHWA – “Project Bundling” - Research team member	Applied Research Associates
11/17 - Present	Panama City, FL	Disputes Review Board; SR 390 from Baldwin Rd to Jenks Ave, Bay Co.	FDOT

03/17 - Present	Pensacola, FL	Chair , Disputes Review Board; US 29, Escambia County	FDOT / Roads, Inc. of NW FL
02/17 - Present	Pensacola, FL	Disputes Review Board; Pensacola Bay Bridge, Escambia County	FDOT
01/17 – 04/17	Jacksonville, FL	Expert Witness; ADB Construction v May Construction	Guilday Law Firm
01/17 - Present	Pensacola, FL	Chair , Disputes Review Board; 9-Mile Road, Escambia County	FDOT / Roads, Inc. of NW FL
01/17 – 04/18	Tampa, FL	Chair , Disputes Review Board; I-4/I-75 Interchange, Hillsborough Co.	FDOT / SEMA Construction
09/16 – 11/17	Lakeland, FL	Chair , Disputes Review Board; US 98, Polk Co.	FDOT / GLF Construction
08/16 - Present	Wausau, FL	Disputes Review Board; SR 77, Washington County	FDOT
01/15 – 12/15	Tallahassee FL	Chair , Regional Disputes Review Board	FDOT / Peavy Construction
10/14 – 06/16	Eglin AFB, FL	Disputes Review Board; SR 123	FDOT
10/14 – 03/17	Tampa, FL	Chair , Disputes Review Board; Veterans' Expressway, Gunn to Sugarwood Plaza	FDOT / SEMA Construction
4/14 – 12/15	Miami, FL	Disputes Review Board; Alton Rd., Dade Co.	FDOT
12/13 – 06/17	Pensacola, FL	Disputes Review Board; I-10, Escambia Co.	FDOT
12/13 – 12/16	Freeport, FL	Disputes Review Board; SR 83, Choctawhatchee Bridge, Walton Co.	FDOT
12/12 – 10/16	Venice, FL	Disputes Review Board; I-75, Sarasota Co.	FDOT
09/13 – 03/15	Lutz, FL	Chair , Disputes Review Board; Veterans' Expressway	FDOT / GLF Construction

09/13 – 11/13	Lutz, FL	Chair , Disputes Review Board; Suncoast Parkway	FDOT
10/12 – 11/13	LaBelle, FL	Chair , Disputes Review Board; SR 80, Hendry Co.	FDOT / CW Roberts
09/12 – 4/16	Freeport, FL	Disputes Review Board; SR 83, Walton Co.	FDOT
07/12 – 06/16	Chipley, FL	Disputes Review Board, Region Three	FDOT
01/12 – 01/13	Fort Walton Beach, FL	Expert Witness; Burnham v Tindle	Brannon & Brannon
08/10	Milton, FL	Chair , Regional Disputes Review Board, Avalon Blvd., Santa Rosa Co.	FDOT / Panhandle Construction
01/10	Tallahassee, FL	Chair , Regional Disputes Review Board, Ochlockonee River Bridge, SR 8, Leon Co.	FDOT / Seminole Construction
11/09 – 06/11	Ebro, FL	Disputes Review Board SR; 79, Washington Co.	FDOT
11/09 – 11/12	Vernon, FL	Disputes Review Board SR; 277, Washington Co.	FDOT
03/09 – 06/10	Wildwood, FL	Disputes Review Board SR 35/SR 44, Sumter Co.	FDOT
10/08 – 12/09	Freeport, FL	Disputes Review Board; US 331, Walton Co.	FDOT
01/08 – 01/11	Chipley, FL	Chair , Regional Disputes Review Board, Region Three	FDOT
10/07 – 03/08	Tampa, FL	Claims Consultant / Expert Witness	Beer / Skanska Construction
01/08 – 04/08	Archer, FL	Claims Consultant / Expert Witness	HyPower Construction
10/07 – 03/08	Jacksonville, FL	Claims Consultant / Expert Witness	John Carlo Construction

01/07 – Present	United States	Teach course in Workers' Compensation nationwide, as needed	National Electrical Contractors Association (NECA)
04/07 – 02/08	Miami, FL	Claims Consultant / Expert Witness	Dolphin Mall, Miami, FL
01/04 - 03/04	Auburn, AL	Analysis of Non-destructive Testing Methods for Asphalt Pavement, Phase I	National Academy of Science (NCHRP)
08/26 - 28/02	Lake Tahoe, CA	Future of Sensors Workshop	National Science Foundation (NSF)
05/26/02	Washington, DC	Unsolicited Proposal Panel	NSF
07/01 - 09/01	Iowa	Development of Onboard Asphalt Density Measuring System, Phase I	Caterpillar Equipment Corporation

EDITOR OF SCHOLARLY JOURNALS, SERVICE ON EDITORIAL ADVISORY BOARDS, REVIEWER FOR SCHOLARLY JOURNALS

Editor (2 journals)

1. *Journal of Legal Aspects and Disputes Resolution*, American Society of Civil Engineers (ASCE). Assistant Editor (2018 – Present)
2. *Journal of Construction Engineering and Management*, American Society of Civil Engineers (ASCE). Assistant Specialty Editor, Construction Materials and Methods (2007 – 2014)

Editorial Advisory Boards / Technical Committees (1 specialty journal, 12 conference proceedings)

1. 3rd European and Mediterranean Structural Engineering and Construction Conference, Limassol, Cyprus; 2020
2. 10th International Structural Engineering and Construction Conference, Chicago, IL; 2019
3. 9th International Structural Engineering and Construction Conference, Valencia, Spain; 2017
4. 1st European and Mediterranean Structural Engineering and Construction Conference, Istanbul, Turkey; 2016
5. 1st International Conference for Sustainable Development and Management, Hong Kong; 2016
6. 8th International Structural Engineering and Construction Conference, Sydney, Australia; 2015

7. 2nd Australasia and Southeast Asia Structural Engineering and Construction Conference, Bangkok, Thailand; 2014
8. 7th International Structural Engineering and Construction Conference, Honolulu, HI; 2013
9. 2nd International Conference on Transportation Construction Management; Orlando, FL; 2010
10. 1st International Conference on Transportation Construction Management; Orlando, FL; 2008
11. American Society of Civil Engineers (ASCE) Journal of Alternative Project Delivery, Procurement, and Contracting Methods for Highways; 2004-2006.
12. 5th ASCE Materials Congress, Cincinnati, OH; 1999.

Manuscripts Reviewed: 253 total - 202 Papers, 50 Abstracts, 1 Book

Reviewer for Scholarly Journals (167 papers):

Journal of Construction Engineering and Management, American Society of Civil Engineers (ASCE), 69 papers reviewed

Journal of the Transportation Research Board, Transportation Research Board (TRB), 43 papers reviewed

Journal of Management in Engineering, American Society of Civil Engineers (ASCE), 8 papers reviewed

Journal of Construction Management and Economics, UK, 17 papers reviewed

International Journal of Pavement Engineering, UK, 1 paper reviewed

Journal of Bridge Engineering, American Society of Civil Engineers (ASCE), 1 paper reviewed

Journal of Innovative Project Delivery for Transportation Construction, American Society of Civil Engineers (ASCE), 3 papers reviewed

Journal of Professional Issues in Engineering Education and Practice, American Society of Civil Engineers (ASCE), 1 paper reviewed

Canadian Journal of Civil Engineering, Canadian Society of Civil Engineers (ASCE), 2 papers reviewed

International Journal of Construction Education and Research, Associated Schools of Construction (ASC), 1 paper reviewed

Journal of Testing and Evaluation, 1 paper reviewed

Journal of Civil Engineering, Korean Society of Civil Engineering (KSCE), 2 papers reviewed

Journal of Automation in Construction, 2 papers reviewed

Journal of Construction Innovation: Information, Process, Management, 2 papers reviewed

Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, American Society of Civil Engineers (ASCE), 7 papers reviewed

Journal of Frontiers of Engineering Management, 1 paper reviewed

Journal of Construction Economics and Building, 1 paper reviewed

Journal of Advances in Civil Engineering, 1 paper reviewed

Reviewer for Other Scholarly Publications (30 Papers, 50 Abstracts, 1 book manuscript reviewed):

Proceedings of the International Transportation Construction Management Conference, 5 papers reviewed

Proceedings of American Society of Civil Engineers CRC Construction Congress, 7 papers reviewed

Proceedings for International Structural Engineering and Construction Conferences, (50 Abstracts and 16 papers reviewed)

- 0 papers, 2 abstracts (for ISEC 11, 2021), 2020
- 1 paper, 4 abstracts (for EURO MED SEC 3, 2020), 2019
- 1 paper, 2 Abstracts (for ISEC 10, 2019), 2018
- 2 papers, 10 Abstracts (for ISEC 9, 2017), 2016
- 2 papers, 5 Abstracts (for ISEC 8, 2015), 2015
- 7 papers, 4 Abstracts (for Australasia and Southeast Asia SEC 2), 2013
- 3 papers, 23 Abstracts (for ISEC-7, 2013), 2012

Proceedings for International Conference for Structures and Building Materials 2013, 2 papers reviewed

Book Manuscripts Reviewed (1)

CONTRIBUTION TO DISCIPLINE/RESEARCH NARRATIVE

By combining backgrounds in Construction Delivery Systems, Construction Supply Chain Integrity and Security and Sensor Technology, Dr. Minchin has established a research program that has

brought over \$3.6 million to the schools that have employed him, including over \$3.0 million and a NSF grant to UF, and over \$1.7 million to the Rinker School. Over 130 publications have been produced, with over 90 appearing in the very best civil engineering and construction journals and proceedings. The journals of the American Society of Civil Engineers, the Journal of the Transportation Research Board and the Journal of Construction Management and Economics, published in United Kingdom, are considered the best and most prestigious journals in which a construction academic might publish. Dr. Minchin has published about 90% of his technical papers in these journals.

Dr. Minchin has attempted to answer the following questions while at UF:

- How should a state highway agency implement a process of bundling construction projects for a single contract letting?
 - One research project (FHWA); one Technical Working Group
- How should a state highway agency best implement a process of Constructability into their design and construction programs?
 - One research project (NCHRP)
- Which of the many construction project delivery systems should a state highway agency choose by which to build its projects – and how should these systems be applied?
 - Five funded research Projects (NCHRP (2), FDOT (2), Balfour-Beatty)
- Is counterfeiting a problem in the construction industry? If, so,
 - One Research Project (CII)
- Can the science of Gamma Ray Spectroscopy (GRS) be advanced to identify and locate harmful materials in civil structures?
 - Two research projects (NSF, FDOT)
 - Related question: Can the creative use of admixtures solve the problem of corrosion of steel reinforcement in concrete bridges?
 - Two research projects (FHWA, FDOT)
- Can the vibratory signature of a vibratory asphalt compactor be measured and used to determine the density of an asphalt mat?
 - Two research projects (Ingersoll-Rand, Caterpillar (both before UF))
- What is the best way for a construction owner or contractor to manage a portfolio of construction projects?
 - One research Project (CII)
- What is the best way for a public transportation agency to inspect their underground water and wastewater construction projects?
 - One research Project (FDOT)
- How do economic conditions and working at night affect contractors' bid prices?
 - Two research projects (both internally funded)
- Can contractors' performance be objectively measured?
 - Two research projects (FDOT (at UF), NCHRP (before UF))
- Can the suffering of injured workers and contractors be mitigated by radical advances in workers' compensation programs?
 - Three research projects (ECF)

Dr. Minchin's research has resulted in several scientific, economic, and social advances.

- Development of a model to aid Departments of Transportation in improving preliminary construction cost estimates. This model will result in agencies being able to more accurately set their annual and five-year-plan budgets, so as to more accurately plan their construction activities.
- Generation of a Guidebook of best practices for public and private construction owners and contractors to use in executing a portfolio of construction projects.
- Generation of a Guidebook for all state Departments of Transportation to use in establishing their design processes for transportation construction projects that will be built using a fast-track delivery system.
- Development of Best Practices for public highway agencies to use to inspect buried pipe construction. The practice utilizes laser and closed circuit television technologies.
- Performed the first documented research in the area of counterfeit equipment, materials and products in construction supply chains. The research resulted in the generation of aids for construction owners and contractors to utilize to attain a higher degree of supply chain integrity. This research also resulted in the most complete data set on counterfeiting in the construction industry in the world today.
- Identification of the best technology for locating dangerous pockets of water in post-tensioned bridge conduits that can lead to systems for infrastructure management and homeland security with worldwide applications
- An automated Economic Decision-Making model for FDOT use in deciding which base materials to use in highway construction
- Integration of effects of delay and interferences into existing construction simulation models, making the simulation models much more realistic
- Patented Onboard Asphalt Density Measuring System. This system has been emulated in systems on the market today.
- A roadmap for contractors to use in establishing the best Workers' Compensation plan for their company and the most complete data set on Alternative Workers' Compensation programs for construction contractors in the U.S. These are being used by state contractor advocacy groups and labor unions to get legislation passed in their states to improve Workers' Compensation.
- The first plan anywhere to construct a solar-powered energy system to power a campus of public buildings. The plan includes a museum and information source on solar energy for the public, and will act as encouragement and as a template for state departments of transportation nationwide to build similar systems.

CREATIVE WORKS OR ACTIVITIES

- 2014. Lead the development of a Guidebook to be used by all 52 state and territorial Departments of Transportation for the establishment of their design management systems when employing fast-track construction projects.
- 2013. Co-developed a Guidebook for large industrial, infrastructure and building contractors to use in managing a portfolio of construction projects.
- 2009. Instructional Multimedia Presentation. Uses PowerPoint and laminated handouts to instruct participants in the elimination and mitigation of counterfeit construction materials and products from the supply chains of industrial, infrastructure and large building construction projects. Presentations have been made to United Technologies (Invited), Cate' Note'-Nord (Canada), NASA, the US Department of Justice, the Global Network of International Construction (China) and the Construction Industry Institute.
- 2005. Co-developed a Risk Index (R) that assesses risk and prioritizes bridges with unknown foundations for owners (DOTs, etc.). A model for calculating R was then designed. Finally, two application methods for the model were used to assess R: (1) the abstract model (AM) and (2) the detailed model (DM).
- 2004. Co-developed the Structural Number Method (SNM), based on the established practice of assigning structural numbers to different highway base materials. This method allows the user to quickly calculate the required thickness of any base material being considered for design. Developed under a grant from, and now used by, FDOT.
- 2004. Co-developed the Base Economic Analysis Tool (BEAT), an automated decision-making tool for those trying to determine which, of a group of base materials, is the most economical choice. Developed under a grant from, and now used by, FDOT.

PATENTS AND COPYRIGHTS

- 1998. Led work done on Onboard Asphalt Density Measuring System, Patent No. 6,122,601. Have petitioned to have name added to patent. This patented system holds great promise to create a new method of asphalt pavement quality assurance/control and, since the patent; similar systems have been developed by equipment manufacturers world-wide. This was one of the first two such systems in the world.
- Copyrights on several publications assigned to the publishing organizations.

PUBLICATIONS (139 total)

Categories:

Theses and Dissertations (2)

1. "Surviving Hell to Gain Paradise: The Gilded Age Conspiracy and Secret Railroad Expedition that turned Florida Upside Down America's and Led to the Taming of America's Last Frontier" **Minchin, R.E.** A Thesis in the field of History for the degree of Master of Liberal Arts, Harvard University; 2019.

2. "An Asphalt Compaction Quality Control Model Using Vibration Signature Analysis" **Minchin, R.E.** A Thesis in Civil Engineering, submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy, The Pennsylvania State University, 1999.

Refereed Publications (96)

Books, Author (2)

3. "Optimizing Program Delivery Methods" **Tran, D.**; Harper, C.; **Minchin, R.E.** NCHRP Synthesis 20-05/Topic 47-06; Transportation Research Board of the National Academies, Washington, DC; 2017.
4. "Design Management Guide for Design-Build and Construction-Manager-as- General-Contractor Projects" **Minchin, R.E.**; **Migliaccio, G.C.**; Atkins, K; Warne, T.; Gatti, U. (g); Ptschelinzew, L.(g); Hostetler, G.; Asiamah, S.; Transportation Research Board of the National Academies, Washington, DC; 2014, ISBN 978-0-309-30805-2.

Books, Contributor of Chapters (7)

5. Jefferies M.C. and Rowlinson, S., Editors; *New Forms of Procurement: Public Private Partnerships and Relational Contracting in the 21st Century*, Chapter 6, "Design Management of Infrastructure Projects: A Comparative Case Study Analysis of Design-Build and Construction Manager / General Contractor Projects in the US"; Routledge/Taylor and Francis; 2016; pp. 95-116. Note: **Migliaccio, G.C.** and **Minchin, R.E.**
6. Orstavik, F.; Abbott, C.; Dainty, A.R.J., Editors; *Construction Innovation*, Chapter 12, "Project delivery systems and innovation: The case of US road building," Blackwell Publishing, Ltd WILEY, Oxford, UK; 2015; pp. 165 – 180. Note: **R.E. Minchin** and **M. Gross**.
7. Molenaar, K.R., Yakowenko, G., Editors; *Alternative Project Delivery, Procurement, and Contracting Methods for Highways* Chapter 3 "Miami Intermodal Center – Introducing "CM-at-Risk" to Transportation Construction"; American Society of Civil Engineers, Reston, VA, 2007, ISBN 13: 978-0-7844-0886-5; pp. 46-59. Note: **R.E. Minchin**, K. Thakkar (g) and R.D. Ellis.
8. Molenaar, K.R., Yakowenko, G., Editors; *Alternative Project delivery, Procurement, and Contracting Methods for Highways* Chapter 6 "Guidelines for Quality-based Contractor Qualification"; American Society of Civil Engineers, Reston, VA, 2007, ISBN 13: 978-0-7844-0886-5; pp. 98-112. Note: **R.E. Minchin** and Gary R. Smith.
9. Kazi, A.S., Editor; *Systematic Innovation in the Management of Construction Projects and Processes*, Chapter 3, "Documenting the Real Causes of Delay in Highway Construction Projects," Technical Research Center of Finland, Helsinki, Finland, 2005, ISBN 952-5004-64-3; pp. 28-42. Note: **R.E. Minchin**, J.Y. Ahn (g) and Z.J. Herbsman.
10. Kazi, A.S., Editor; *Systematic Innovation in the Management of Construction Projects and Processes*, Chapter 29, "CM-at-Risk Delivery System and the Miami Intermodal Center," Technical Research Center of Finland, Helsinki, Finland, 2005, ISBN

952-5004-64-3; pp. 339-351. Note: **R.E. Minchin** and R.D. Ellis.

11. Chini, A., Editor; *Who Provides Inspection?* Chapter 4, “Who Provides Inspection in Highway Construction?” American Society of Civil Engineers, Reston, VA, 1999, ISBN 0-7844-0450-X; pp. 22-32. Note: **R.E. Minchin**.

Magazine Articles (2)

12. **Tran, D.**; Harper, C.; **Minchin, R.E.**; “Strategic Program Delivery Methods”; Transportation Research News; Transportation Research Board, Washington, DC; May-June, 2018, No. 314, pp. 35-37.
13. **Minchin, R.E.**; **Migliaccio, G.C.**; “Design Management Practices for Transportation Construction Projects Using Design-Build and Construction Manager / General Contractor Project Delivery”; Transportation Research News; Transportation Research Board, Washington, DC; March-April, 2016, No. 302, pp. 41-46.

Journal Articles (38)

14. **Tian, Y.**; Adriaens, P.; **Minchin, R.E.**; Lu, Z.; Qi, C.; “Asset Tokenization: A Blockchain Solution to Financing Infrastructure in Emerging Markets and Developing Economies,” **Accepted** for publication by the Asia Development Bank; August 2020.
15. **Ptschelinzew, L.** (g); **Minchin, R.E.**; Chini, A.; **Zhang, Y.** (g); “Discord through Party Perceptions and Relationship Management Strategies for Designers and Contractors”; Accepted for publication in the Journal of Legal Aspects and Disputes Resolution; American Society of Civil Engineers, Reston, VA; 2019.
16. **Shahandashti, S.M.**; **Masoumi, A.M.** (g); Touran, A.; Ashuri, B.; **Minchin, R.E.**; “Construction Portfolio Performance Management Using Key Performance Indicators”; **Accepted** for publication in the Journal for Advancement of Performance Information & Value; Conseil International du Batiment (cib), Tempe, Arizona; 2018.
17. **Minchin, R.E.**; Zhang, Y.; Mahajan, V.; Atkins, K.E.; “Answers to Questions of Ethics by Highway Contractors”; ASCE Journal of Legal Affairs and Disputes Resolution in Engineering and Construction; American Society of Civil Engineers, Reston, VA; 2018; 10(4), 05018003.
18. **Zhang, Y.** (g); Chini, A.; **Minchin, R.E.**; **Ptschelinzew, L.** (g); Shah, D. (g); “Performance of Seven Highway Construction Contracting Methods Analyzed by Project Size”; Frontiers of Engineering; Higher Education Press; Beijing, PRC; 2018; 5(2), 240-250.
19. **Chini, A.**; **Ptschelinzew, L.**(g); **Minchin, R.E.**; Zhang, Y. (g); Shah, D. (g); “Industry Attitudes Toward Alternative Contracting for Highway Construction in Florida”; ASCE Journal of Management in Engineering; American Society of Civil Engineers, Reston, VA; 2018; 10.1061/(ASCE)ME.1943-5479.0000586.
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22. **Minchin, R.E.**; Corona, F.; Zhang, Y.; Lucas, E.D.; Pan, J.; Walters, R.C ; “Chinese Organizations’ Actions and Attitudes After Discovery of Counterfeit Items in Their Construction Supply Chains,” ASCE Journal of Legal Affairs and Disputes Resolution in Engineering and Construction; American Society of Civil Engineers, Reston, VA; 2016; 9(2). 1943-4162.
23. **Minchin, R.E.**; Lucas, E.D.; Walters, R.C.; Pan, J.; Issa, R.R.A.; Singla, G.(g) ; “Counterfeiting in the Construction Industry: An Analysis of Sino-American Differences in Perception,” Journal of Legal Affairs and Disputes Resolution in Engineering and Construction; American Society of Civil Engineers, Reston, VA; 2016; 8 (4); DOI: 10.1061/(ASCE)LA.1943-4170.0000194
24. Jiang, T.(p); An, X.; **Minchin, R.E.**; Li, S.; “Application of Discrete-Event Simulation in the Quantitative Evaluation of Information Systems in Infrastructure Maintenance Management Processes,” ASCE Journal of Management in Engineering; American Society of Civil Engineers, Reston, VA, 2016, 32(2): 05015008.
25. El-Mashaleh, M.(g).; **Minchin, R.E.**; "Concessionaire Selection Model Based on Data Envelopment Analysis (DEA)," ASCE Journal of Management in Engineering; Vol. 30, No. 4; American Society of Civil Engineers, Reston, VA, 2014
26. **Minchin, R.E.**; Li, X.(g); Issa, R.R.; Vargas, G.L.; “Comparison of Cost and Time Performance of Design-Build vs. Design-Bid-Build Delivery Systems in Florida”; ASCE Journal of Construction Engineering and Management; Vol. 139, No. 10; American Society of Civil Engineers, Reston, VA, 2013; ISSN 0733-9364/0401 3007(5)
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30. **Minchin, R.E.**; Ellis, R.D.; Pyeon, J.H(g) .; Jichao, Zhan(g) “Use of Innovative Contracting Methods by DOTs – Project Managers Speak”; Journal of Civil Engineering and Architecture; Vol.4, No. 8, David Publishing Company, Chicago, IL, 2011. pp. 14-26.

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34. **Minchin, R.E.**; Hammons, M.I.; Ahn, J.(g) ; Choubane, B.; “A Construction Quality Index for Highway Construction,” Journal of Construction Management and Economics, Volume 26, No. 10; Routledge, an imprint of Taylor and Francis, Abington, UK, 2008, pp. 1313-1324.
35. **Minchin, R.E.**; Hammons, M.I.; Ahn, J.(g) ; “A Highway Construction Quality Index for Florida,” Journal of the Transportation Research Board, TRR No.2081, Transportation Research Board, Washington, DC, 2008, pp 29-37.
36. **Minchin, R.E.**; Swanson, D.C.; Gruss, A. F.(g) ; Thomas, H.R.; “Computer Applications in Intelligent Compaction,” ASCE Journal of Computing in Civil Engineering, Volume 22, No. 4, American Society of Civil Engineers, Reston, VA, 2008, pp. 243-251
37. El-Mashaleh, M.:(g) ; **Minchin, R.E.**; O’Brien, W. J.; “Management of Construction Firm Performance Using Benchmarking”; ASCE Journal of Management in Engineering, Volume 23, No. 1, American Society of Civil Engineers, Reston, VA, 2007, pp. 10-17
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42. El-Mashaleh, M.(g) ; O’Brien, W. J.; **Minchin, R.E.**; “Firm Performance and Information Technology Utilization in the Construction Industry,” ASCE Journal of Construction Engineering and Management, Volume 132, No. 5, American Society of Civil Engineers, Reston, VA, 2006, pp. 499-507.

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44. Guo, K.(g) , **Minchin, R.E.**, Ferragut, T.; “The Shift to Warranties and Performance Specs: What of Method Specs?,” Journal of Construction Management and Economics, Volume 23, No. 9; Routledge, an imprint of Taylor and Francis, Abington, UK, 2005, pp. 953-963.
45. Chancey, R.(g) , Sputo, T.; **Minchin, R.E.**; Turner, J.(g) .; “Accuracy and Precision in Structural Steel Design”; ASCE Practice Periodical on Structural Design and Construction, Volume 10, No.3; American Society of Civil Engineers, Reston, VA, August, 2005, pp. 154-160.
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49. Thomas, H.R.; **Minchin, R.E.**; Horman, M.J.; Chen, D.(g) ; “Improving Labor Flow Reliability for Better Productivity as Lean Construction Principle,” ASCE Journal of Construction Engineering and Management, Volume 129, No. 3, American Society of Civil Engineers, Reston, VA, 2003, pp. 251-261.
50. **Minchin, R.E.**; Thomas, H.R.; “Validation of a Vibration-based Onboard Asphalt Density Measuring System,” ASCE Journal of Construction Engineering and Management, Volume 129, No. 1, American Society of Civil Engineers, Reston, VA, 2003, pp. 1-7.
51. Gao, Z.(g) ; Smith, G.R.; **Minchin, R.E.**; “Budget and Schedule Success for Small Capital Facility Projects,” ASCE Journal of Management in Engineering, Volume 18, No. 4; American Society of Civil Engineers, Reston, VA, October, 2002, pp. 186-193.
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Proceedings (48)

53. D’Angelo, D.; **Minchin, R.E.**; Tian, Y.(g); “Bridge Bundling: An Innovation in Bridge Delivery”; **Accepted** for publication in the Proceedings of the 3rd Euro-Med Structural Engineering and Construction Conference; Euro-Med SEC; Limassol, Cyprus, 2020.

54. **Minchin, R.E.**; Myers, M.(g); Tran, D.; Tian, Y.(g); “A Synthesis of Constructability on Transportation Construction”; **Accepted** for publication in the Proceedings of the 3rd Euro-Med Structural Engineering and Construction Conference; Euro-Med SEC; Limassol, Cyprus, 2020.
55. Tian, Y. (g); Zhang, Y.; **Minchin, R.E.**; Asutosh, A. (g); Kan, C. (g); “Exploring the Potential of Blockchain-Based Tokenization with Infrastructure Financing”; Construction Research Congress; Phoenix, AZ, 2020.
56. Tian, Y. (g); **Minchin, R.E.**; Zhang, Y.; Kan, C. (g); “Integration of Alternative Technical Concepts with Innovative Delivery Methods”; Construction Research Congress; Phoenix, AZ, 2020.
57. **Minchin, R.E.**; Tran, D.; Tian, Y.(g); Im, H.(g); “Analysis of Impediments to a Successful Constructability Process in U.S. Highway Construction”; Proceedings of the 10th International Structural Engineering and Construction Conference; ISEC; Chicago, IL, 2019.
58. Migliaccio, G.; **Minchin, R.E.**; Gatti, U.; Ptschelinzew(g) , L.R.; Atkins, K.; Hostetler, G.; “Best Practices for the Design Process for the Horizontal Design-Builder”; Proceedings of the 10th International Structural Engineering and Construction Conference; ISEC; Chicago, IL, 2019.
59. Im, H. (g); **Minchin, R.E.**; Hakim, H.; Zhang, Y.; “A Prediction Model To Monitor The Financial Soundness Of Construction Firms In Korea And The US”; Proceedings of the Construction Research Congress, New Orleans, LA, 2018
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95. Cervera, A(g) .; **Minchin, R.E.**; “The Change to End-result Specifications: Where are we now?,” Proceedings of the 82nd Transportation Research Board Annual Meeting, Washington, DC, 2003, pp. 1-10 (CD).
96. **Minchin, R.E.**; Thomas, H.R.; Swanson, D.C.; “Application of Asphalt Quality Control Using Vibration Analysis,” Proceedings of American Society of Civil Engineers Annual Meeting, Seattle, WA, 2000, pp. 1-12 (CD).
97. **Minchin, R.E.**; Thomas, H.R.; “Asphalt Density from Compactor Vibration Levels,” Proceedings of American Society of Civil Engineers 6th Construction Congress, Orlando, FL, 2000, Letter of acceptance – paper was inadvertently left out of printed proceedings (along with over 15% of total accepted papers).
98. **Minchin, R.E.**; Smith, G.R.; “Contractor Qualification - Where Are We?,” Proceedings of 78th Transportation Research Board Annual Meeting, Washington, DC, 1999, pp. 1-17

99. **Minchin, R.E.**; Thomas, H.R.; “Asphalt Quality Control Through Compactor Vibratory Responses,” Proceedings of American Society of Civil Engineers 5th Materials Congress, Cincinnati, OH, 1999, pp. 883 – 891.
100. **Minchin, R.E.**; Thomas, H.R.; “Determining Relative Density Through Compactor Vibratory Measurement,” Proceedings of 77th Transportation Research Board Annual Meeting, Washington, DC, 1998, pp. 1-10 (CD)

Non-refereed Publications (39) – Proceedings (2)

101. **Smith, G.R.** and **Minchin, R.E.**; “Contractor Qualification Based on Quality,” Proceedings of Canadian Society of Civil Engineers Annual Meeting, 1999.
102. **Minchin, R.E.**; Thomas, H.R.; “Measuring Asphalt Density Through Compactor Vibratory Responses,” Proceedings of 14th International Symposium of Automation and Robotics in Construction, Pittsburgh, PA, 1997.

Research Reports, etc. (31)

103. **Minchin, R.E.**; “Comprehensive Report on the Status of the Master’s Programs; Prepared as an Aid to the Investigator: Third-Party Evaluation Study of the Master’s Degree Programs; M.E. Rinker Sr. School of Construction Management; University of Florida; 2018.
104. **Minchin, R.E.**; Ries, R.; Issa, R.R.; Im, H.; Tian, Y.; “Industry Surveys Regarding Master’s Degree Program Options and Continuing Education” – Report to Executive Committee, M.E. Rinker Sr. School of Construction Management, University of Florida, Gainesville, FL, 2018.
105. **Minchin, R.E.**; Chini, A.R.; **Ptschelinzew, L.**; **Zhang, Y.**; **Shah, D.**; “Alternative Contracting” - Research Project No. BDV31-977-40; Florida Department of Transportation Final Report, Tallahassee, FL, 2016.
106. **Touran, A.**; **Ashuri, B.**; **Minchin, R.E.**; Masoumi, R.; Shahandashti, M.; “Managing a Portfolio of Projects – Metrics for Improvement” – Research Report (RR303); Construction Industry Institute, Austin, TX; 2014.
107. O’Hanlon, C.; Robinson, M.; Touran, A.; Ashuri, B.; **Minchin, R.E.**; Masoumi, R.; Shahandashti, M.; RT 303 team members; “Managing a Portfolio of Projects – Metrics for Improvement – Research Summary”; Research Summary (RS303); Construction Industry Institute, Austin, TX; 2014.
108. **Touran, A.**; **Ashuri, B.**; **Minchin, R.E.**; “Playbook for Managing a Portfolio of Projects – Metrics for Improvement”; Implementation Resource (IR303); Construction Industry Institute, Austin, TX; 2014.
109. **Minchin, R.E.**; **Ptschelinzew, L.**; Issa, R.R.; Zhang, Y.; “Best Practices for Inspection of Utility Pipe System Construction”, Research Project No. BDK75 977-56; Florida Department of Transportation Final Report, Tallahassee, FL, 2014.
110. **Minchin, R.E.**; **Migliaccio, G.**; Atkins, K.; Hostetler, G.; Warne, T.; Asiamah, S.; **Ptschelinzew, L.**; Gatti, U.; Zhang, Y.; “Design Management Guide for Design-Build and

- Construction Manager / General Contractor Projects”, NCHRP 15-46 Interim Report No. 2, Washington, DC, 2013.
111. **Minchin, R.E.**; **Migliaccio, G.**; Atkins, K.; Hostetler, G.; Warne, T.; Asiamah, S.; Ptschelinzew, L.; Gatti, U.; Zhang, Y.; “Design Management Guide for Design-Build and Construction Manager / General Contractor Projects”, NCHRP 15-46 Interim Report No. 1, Washington, DC, 2012.
 112. **Minchin, R.E.** and **Li, X.(g)**; “Performances of Construction-Manager-at-Risk for Highway and Bridge Projects in the Southeastern United States” Final Report to Balfour Beatty Construction Services, Miami, FL, 2011.
 113. **Minchin, R.E.** and **Emerson, R.D.**; “Negotiated Workers’ Compensation – Making NECA Chapters a Player, Phase II” Final Report for Electrical Contracting Foundation Study, National Electrical Contractors Association, Bethesda, MD, 2011.
 114. **Minchin, R.E.**; Walters, R. C.; Pan, J.; Dvorsek, J.; Traffanstead, D.; Casada, M.; Kelly, T.; “Product Integrity Concerns in Low-cost Sourcing Countries,” Construction Industry Institute Research Report No. 264, Austin, TX, 2010.
 115. **Minchin, R.E.**; Walters, R. C.; Pan, J.; Dvorsek, J.; Traffanstead, D.; Casada, M.; Kelly, T.; “Product Integrity Concerns in Low-cost Sourcing Countries,” Construction Industry Institute Research Summary No. 264, Austin, TX, 2010.
 116. **Kibert, C.J.**; Hertel, L.; **Minchin, R.E.**; Ries, R.; Sherif, S.A.; Walters, R. C.; “A Comprehensive Solar Power System for the Turkey Lake Service Plaza,” Final Report for FDOT Project BDK75 977-18, Tallahassee, FL, 2009.
 117. VonQuintus, H.L.; **Rao, C.**; **Minchin, R.E.**; Maser, K.R.; Nazarian, S.; Prowell, B.; “NDT Technology for Quality Assurance of HMA Pavement Construction,” NCHRP Report 626; Washington, DC, 2009.
 118. VonQuintus, H.L.; **Rao, C.**; **Minchin, R.E.**; Maser, K.R.; Nazarian, S.; Prowell, B.; “Non-destructive Testing Technology for Quality Control and Acceptance of Flexible Pavement Construction,” Final Report for NCHRP Project 10-65, Phase 2; Washington, DC, 2008.
 119. **Lewis, D.W.** (g) and **Minchin, R.E.**, “Underground Storage Tank Secondary Containment and Primary Integrity UST Relocation Report,” for Florida Department of Environmental Protection, Tallahassee, FL, 2007.
 120. **Hammons, M.I.**; **Minchin, R.E.**; “Determining an Acceptable Construction Quality Index for Florida,” Final Report for Project PR608014; Florida Department of Transportation; Tallahassee, FL; 2007.
 121. Ellis, R.D.; **Pyeon, J.H.(g)**; **Minchin, R.E.**; “Evaluation of Alternative Contracting Techniques on FDOT Construction Projects” Final Report for Project BDC51; Florida Department of Transportation; Tallahassee, FL; 2007.
 122. **Minchin, R.E.**; **Haghighat, A.**; **Baciak, J.**; “A Non-destructive Active Interrogation Technique for Material Identification in Civil Structures” Final Report for Project CMS – 0612980; National Science Foundation; Arlington, VA; 2007.
 123. **Minchin, R.E.**; “Identification and Demonstration of a Technology Adaptable to Locating Water in Post-Tensioned Bridge Tendons”; Final Report for Project BD545-45; Florida Department of Transportation; Tallahassee, FL; 2007.

124. VonQuintus, H.L.; Rao, C.; **Minchin, R.E.**; Maser, K.R.; Nazarian, S.; Prowell, B.; “Non-destructive Testing Technology for Quality Control and Acceptance of Flexible Pavement Construction,” Interim Report for NCHRP Project 10-65, Phase 2; Washington, DC, 2006.
125. **Minchin, R.E.**; Christmas; S.A., Mogge, J.W.(g) ; and Tuell, S.A(g) .; “Negotiated Workers’ Compensation – Making NECA Chapters a Player,” Final Report for Electrical Contracting Foundation Study, National Electrical Contractors Association, Bethesda, MD, 2005.
126. Von Quintus, H.L.; Rao, C.; Stubstad, R.N.; **Minchin, R.E.**; Maser, K.R.; Nazarian, S.; “Non-destructive Testing Technology for Quality Control and Acceptance of Flexible Pavement Construction,” Interim Report for NCHRP Project 10-54, Washington, DC, 2004.
127. **Minchin, R.E.**, Herbsman, Z., and Choi, J.(g) , “An Economic Evaluation Based on Total Cost of Aggregate Base vs. Asphalt Base,” Final Report for Project Development Division Study, Florida Department of Transportation, Tallahassee, FL, 2003.
128. **Minchin, R.E.** and Smith, G.R., “Quality-based Performance Rating of Contractors for Prequalification and Bidding Purposes,” Final Report for NCHRP Project 10-54, Published as NCHRP Web Document 38, Washington, DC, 2001.
129. **Minchin, R.E.** and Jahren, C. T., “Schedule Master Plan for I-235,” Final Report for Project Development Division Study, Iowa Department of Transportation, Ames, IA, 2001.
130. Jahren, C.T. and **Minchin, R.E.**, “Researching Methods of Delay Reduction for a Major Urban Interstate Project,” Final Report for Project Development Division Study, Iowa Department of Transportation, Ames, IA, 2000.
131. Thomas, H.R. , **Minchin, R.E.**, and Swanson, D.C., “Report on an Onboard Asphalt Density Measuring Device, Phase II” Final Report for Phase II of Research Project, Ingersoll-Rand Construction Machinery, Shippensburg, PA, 1999.
132. **Minchin, R.E.** and Smith, G.R., “Quality-based Performance Rating of Contractors for Prequalification and Bidding Purposes,” Interim Report for NCHRP Project 10-54, Washington, DC, 1998.
133. Thomas, H.R. , Swanson, D.C., and **Minchin, R.E.**, “Report on an Onboard Asphalt Density Measuring Device, Phase I” Final Report for Phase I of Research Project, Ingersoll-Rand Construction Machinery, Shippensburg, PA, 1998.

Abstracts (6)

134. **Minchin, R.E.**; Christmas, S.A.; “Common Sense Solutions to the U.S. Workers’ Compensation Epidemic”; Conference Handbook, Conseil International du Batiment (cib) Conference for Management of Construction Research to Practice, Montreal, Quebec, Canada, 2012, p. 14
135. **Minchin, R.E.**; Migliaccio, G.; Li, X(g) .; Issa, R.R.; Atkins, K.; Vargas, G.; Hostetler, G.A.; “Construction and Design Issues for Construction Manager / General Contractor Highway Projects”; Conference Handbook, Conseil International du Batiment (cib) Conference for Management of Construction Research to Practice, Montreal, Quebec, Canada, 2012, p. 65

136. **Minchin, R.E.**; Ahn, J.Y.; Herbsman, Z.J.; “Documenting the Real Causes of Delay in Highway Construction Projects,”; Executive Summaries of the Conseil International du Batiment; Helsinki, Finland, 2005; pp. 170-171
137. **Minchin, R.E.**; Ellis, R.D.; “CM-at-Risk Delivery System and the Miami Intermodal Center”; Executive Summaries of the Conseil International du Batiment; Helsinki, Finland, 2005; pp. 222-223
138. **Minchin, R.E.**; Campo, M(g) .; Glagola, C.R.; Thakkar, K.(g) ; “Managing Preliminary Estimates in a Changing Economy,” Executive Summaries of the Conseil International du Batiment,; Helsinki, Finland, 2005; pp. 70-71
139. El-Mashaleh, M.(g) ; **Minchin, R.E.**; O’Brien, W. J.; “Benchmarking Construction Firm Performance,” Executive Summaries of the Conseil International du Batiment; Helsinki, Finland, 2005; pp. 88-89

LECTURES, SPEECHES, POSTERS PRESENTED TO PROFESSIONAL CONFERENCES, UNIVERSITY AND GOVERNMENTAL BODIES (129 total):

International

International Invited Presentations (without refereed paper and excl. seminars) (10):

1. “The Evolution of Fast-track Highway Construction Project Delivery”; Guangzhou University, Guangzhou, China; May 7, 2020.
2. “Counterfeit, Refurbished or Reused Non-Electronic Components”; **Fellows Innovation Lecture**, United Technologies, East Hartford, Connecticut and broadcast around the world March 21, 2017.
3. “Construction Supply Chain Integrity: Mitigating the Counterfeit Threat”; 2nd International Structural Engineering and Construction Australasia and Southeast Asia Conference, Bangkok, Thailand, November, 2014 (**Keynote Address**).
4. “Sino-American Product Integrity Concerns in Low-cost Sourcing Countries”; Faculty and Graduate Student Speaker Series; Hong Kong, October, 2014.
5. “The Steel Market and Counterfeiting: Impacts on the Economy”; First Steel Market and Counterfeiting Conference, organized by Cate’ Note’-Nord, Sept Iles, Quebec, Canada, 2014 (**Keynote Address**).
6. “Product Integrity Concerns from Low-cost Sourcing Countries,” National Aeronautics and Space Administration (NASA), Kennedy Space Center, Cape Canaveral FL, with worldwide satellite hookup to nine remote locations; March, 2011 (**Only Presenter**).
7. “The Use of CM-at-Risk in Transportation Construction in the U.S.”; Faculty and Graduate Student Speaker Series; Hong Kong; February, 2009 (**Only Presenter**).
8. “Current Trends in the Use of Delivery Systems in the U.S.”; National Faculty – Industry Workshop; Beijing, China; January, 2009 (**Keynote Address**).
9. “Product Integrity Concerns in Low-Quality Source Countries”; Global Network for International Construction; Beijing, China, January, 2009.

10. "Measuring Asphalt Density Through Compactor Vibratory Responses," 14th International Symposium of Automation and Robotics in Construction, Pittsburgh, PA, 1997.

International Presentations (with a refereed paper) (25):

11. "Bridge Bundling: An Innovation in Bridge Delivery"; Third Euro-Med Structural Engineering and Construction Conference; Euro-Med SEC; Limassol, Cyprus, 2020.
12. "A Synthesis of Constructability on Transportation Construction"; Third Euro-Med Structural Engineering and Construction Conference; Euro-Med SEC; Limassol, Cyprus, 2020.
13. "Analysis of Impediments to a Successful Constructability Process in U.S. Highway Construction"; 10th International Structural Engineering and Construction Conference; Chicago, IL, 2019.
14. "Best Practices for the Design Process for the Horizontal Design-Builder"; 10th International Structural Engineering and Construction Conference; ISEC; Chicago, IL, 2019.
15. "Key Indicators and Recommendations to Mitigate Counterfeiting in Construction Supply Chains"; 1st International Conference on Professionalism and Ethics in Construction; London, UK, 2018.
16. "Best Practices for the Design Process for the Construction-Manager-as-General-Contractor"; 8th Annual international Conference on Civil Engineering; Athens Institute for Education and Research; Athens, Greece, 2018.
17. "A Preliminary Study of Alternative Technical Concepts in Highway Project Delivery Methods in the US"; 9th International Structural Engineering and Construction Conference, Valencia, Spain, 2017.
18. "Forecasting Conceptual Costs of Bridge Projects Using Non-Parametric Regression Analysis"; Proceedings, 9th International Structural Engineering and Construction Conference, Valencia, Spain, 2017.
19. "Applying Multi-objective Decision Making Model to Selection of Multiple Project Delivery Methods for Multi-project Construction Projects Under Uncertainty," 2nd International Structural Engineering and Construction Australasia and Southeast Asia Conference, Bangkok, Thailand, 2014
20. "Development of a System to Validate and Certify Equipment and Technicians for the Inspection of Underground Pipe," 2nd International Structural Engineering and Construction Australasia and Southeast Asia Conference, Bangkok, Thailand, 2014
21. "Best Practices in Design Process Development for Accelerated Construction Project Delivery"; 7th International Structural Engineering and Construction Conference, Honolulu, Hawaii, 2013
22. "Best Practices for Inspection of Underground Pipe Construction"; 7th International Structural Engineering and Construction Conference, Honolulu, Hawaii, 2013

23. “Construction and Design Issues for Construction Manager / General Contractor Highway Projects”; Conseil International du Batiment (cib) Conference for Management of Construction Research to Practice, Montreal, Quebec, Canada, 2012
24. “Common Sense Solutions to the U.S. Workers’ Compensation Epidemic”; Conseil International du Batiment (cib) Conference for Management of Construction Research to Practice, Montreal, Quebec, Canada, 2012
25. “Synthesis of Viable Negotiated Alternatives for Contractors’ Workers’ Compensation”; 6th International Structural Engineering and Construction Conference, Zurich, Switzerland, June 2011.
26. “Preliminary Findings: Counterfeiting in the International Construction Industry”; 6th International Structural Engineering and Construction Conference, Zurich, Switzerland, June 2011.
27. “Counterfeit Construction Products from Low-Cost Sourcing Countries”; Conseil International du Batiment (cib) Conference for Management and Innovation for a Sustainable Environment, Amsterdam, The Netherlands, June 2011.
28. “CM-at-Risk as a Highway Construction Delivery System in the Southeastern United States”; Conseil International du Batiment (cib) Conference for Management and Innovation for a Sustainable Environment, Amsterdam, The Netherlands, June 2011.
29. “The Move to Nighttime Construction – How are U.S. Highway Agencies Coping?” Conseil International du Batiment (cib) World Building Congress, Salford Quays, United Kingdom, May, 2010.
30. “Managing Workers’ Compensation for Contractors– A Synthesis” Conseil International du Batiment (cib) World Building Congress, Salford Quays, United Kingdom, May 2010.
31. “Active Interrogation Techniques for Non-destructive Investigation of Historic Structures”; Association for Preservation Technology International; Montreal, Quebec, Canada, October 2008
32. “Computers in Intelligent Compaction”; International Conference on Computers in Civil Engineering, Cancun, Mexico, July, 2005.
33. “Documenting the Real Causes for Delay in Highway Construction Projects,” Conseil International du Batiment, Helsinki, Finland, June, 2005.
34. “Benchmarking Construction Firm Performance,” Conseil International du Batiment, Helsinki, Finland, June, 2005.
35. “CM-at-Risk Delivery System and the Miami Intermodal Center,” Conseil International du Batiment, Helsinki, Finland, June, 2005.
36. “Managing Preliminary Estimates in a Changing Economy,” Conseil International du Batiment, Helsinki, Finland, June, 2005.

Conference Sessions as an Organizer, Moderator, or Panelist (14):

37. Co-Moderator. Third European and Mediterranean Structural Engineering and Construction Conference, Limassol, Cyprus, Virtual, 2020.
38. Panelist. Florida Department of Transportation / Florida Transportation Builders Association Progressive Design-Build / Construction-Manager-as-General-Contractor Webinar; Virtual, 2020.
39. Panelist. “Design-Build Risks: Lessons Learned from the Trenches,” 1st VLP Symposium; Orlando, FL, 2019.
40. Moderator. “Manufacturing Systems for Construction,” 10th International Structural Engineering and Construction Conference; Chicago, IL, 2019.
41. Moderator. “My Journey—Science, God and the Search for Truth” by Dr. John Lennox; Faculty Commons Annual Luncheon; University of Florida; Gainesville, Florida, 2018.
42. Moderator. “Innovative Concrete Materials I,” 8th Annual International Conference on Civil Engineering; Athens Institute for Education and Research; Athens, Greece, 2018
43. Moderator. “Procurement Methods and Dispute Management,” 9th International Structural Engineering and Construction Conference; Valencia, Spain, July, 2017
44. Moderator. “Contracting Systems,” 2nd Australasia and Southeast Asia Conference in Structural Engineering and Construction; Bangkok, Thailand; November, 2014
45. Moderator. “Performance and Safety,” 7th International Structural Engineering and Construction Conference; Honolulu, Hawaii, June, 2013
46. Moderator. “Economics of Sustainability and Risk Management,” Conseil International du Batiment (cib) Conference for Management of Construction Research to Practice, Montreal, Quebec, Canada; June, 2012
47. Moderator. “Effect of Culture on Performance,” 6th International Structural Engineering and Construction Conference, Zurich, Switzerland, June, 2011.
48. Moderator. “Case Studies in Innovative Construction Management Practice,” Annual Meeting of the Transportation Research Board, Washington, DC, January, 2004.
49. Moderator. “Emerging Technologies for Constructing and Maintaining Transportation Infrastructure,” Annual Meeting of the Transportation Research Board, Washington, DC, January, 2002.
50. Moderator. “New Technology in the Compaction of Hot-Mix Asphalt Pavement,” American Society of Civil Engineers, Materials Congress 5, Cincinnati, OH, April, 1999.
51. Moderator. “Innovations in Asphalt Paving and Compaction Equipment,” Annual Meeting of the Transportation Research Board, Washington, DC, January, 1997.

National Presentations (without a refereed paper) (36)

52. “A Model Organization for A Successful CM/GC Program in an Existing Tribal Bureaucracy,” KAWERAK Corporation of Native American Tribes Executive Officers; Nome, AK (Virtual), 2020.

53. “What is CM/GC—and What Does it Mean to You?” KAWERAK Corporation of Native American Tribes / Semi-Annual Executive Council Meeting; Nome, AK (Virtual), 2020.
54. “What is CM/GC?”, Florida Department of Transportation / Florida Transportation Builders Association Progressive Design-Build / Construction-Manager-as-General-Contractor Webinar; Tallahassee, FL (Virtual), 2020.
55. “Framework for Implementing Constructability Across the Entire Project Development Process: NEPA to Final Design,” Annual Meeting of the Transportation Research Board, Washington, DC, 2020.
56. “Crossing Hell to Open Paradise: The Story of Henry Flagler’s Overseas Road,” Annual Meeting of the Transportation Research Board, Washington, DC, 2020.
57. “Framework for Implementing Constructability Across the Entire Project Development Process: NEPA to Final Design,” State Construction Office, Virginia Department of Transportation; Richmond, VA, 2019.
58. “Construction Supply Chain Integrity: Mitigating the Counterfeit Threat,” Harvard University, Cambridge, MA, 2019.
59. “ICM and Beyond” Faculty of the Provost’s Office; University of Wisconsin, Madison, WI, 2017.
60. “Research, Academic and Professional Experience,” Faculty of the College of Architecture, Art and Design; Mississippi State University, Mississippi State, MS, 2017.
61. “Alternative Contracting Research,” Meeting of TRB Committee AFH15, Committee on Construction Project Delivery; 95th Transportation Research Board Annual Meeting, Washington, DC, 2017.
62. “Guide for Design Management on Design-Build and Construction Manager / General Contractor Projects,” Four-hour workshop at National Accelerated Bridge Construction Conference; Transportation Research Board / Associated Builders and Constructors; Miami, FL, 2014.
63. “Counterfeit Materials and Products in the Construction Supply Chain” Counterfeit Electronic Parts and Electronic Supply Chain Symposium, Surface Mount Technology Association; College Park, MD, 2014.
64. “Design Management Framework for Design-Build and Construction Manager/General Contractor Delivery,” National Cooperative Highway Research Program; Transportation Research Board, Washington, DC, 2013.
65. “Sino-American Perceptions of Counterfeiting in the Construction Industry,” D.C. Counterfeit Microelectronics Working Group; U.S. Department of Justice, Washington, DC, 2013.
66. “Called to the Academy,” Faculty Commons Annual Conference, Jacksonville, FL, 2012.
67. “Making Construction Manager / General Contractor a Tool in Your Project Delivery Toolbox,” 61st Maine Construction Conference, Augusta, ME, 2011.
68. “Product Integrity Concerns from Low-cost Sourcing Countries (second),” Construction Industry Institute Annual Conference, Orlando, FL, 2010.

69. "Product Integrity Concerns from Low-cost Sourcing Countries (first)," Construction Industry Institute Annual Conference, Orlando, FL, 2010.
70. "Product Integrity Concerns from Low-cost Sourcing Countries –Preliminary Results," Procurement Executives Group for the Engineering and Construction Industry (PEG Group) Semi-annual Meeting, Houston, TX, Fall, 2009.
71. "Activities of ASCE Committee on Construction Quality Management and Inspection," ASCE Construction Leadership Forum, Chicago, IL, 2008.
72. "Identification and Demonstration of a Technology Adaptable to Locating Water in Post-tensioned Bridge Tendons," Virginia Transportation Research Council, Charlottesville, VA, 2008.
73. "Using Gamma Ray Spectroscopy to Identify, Locate, and Measure Harmful Elements in Structures," Turner-Fairbanks Highway Research Center, McLean, VA, 2007.
74. "Using Gamma Ray Spectroscopy to Identify, Locate, and Measure Harmful Elements in Structures," U.S. Department of Transportation, Washington, DC, 2007
75. "Cooperatively-Negotiated Workers' Compensation," Electrical Contracting Foundation, San Diego, CA, 2006.
76. "A Qualitative Assessment of the Relative Effectiveness of Existing Workers Compensation Programs," Electrical Contracting Foundation, Chicago, IL, 2005.
77. "Workers' Compensation In Minnesota – Means to an End"; National Electrical Contractors Association; St. Paul, MN, 2005.
78. "Cooperatively-Negotiated Workers' Compensation - Making NECA Chapters a Player," Electrical Contracting Foundation, Naples, FL, 2005.
79. "The Miami Intermodal Center," Mega Projects of America Conference – American Society of Civil Engineers, Washington, DC, 2005.
80. "Active Interrogative Techniques for Locating Water in Civil Structures," National Science Foundation, Washington, DC, 2004.
81. "Accessing a New Market – Outsourcing Maintenance of Public Facilities Maintenance," Electrical Contracting Foundation, Chicago, IL, 2004.
82. "Collectively-bargained Workers' Compensation - Making NECA Chapters a Player," Electrical Contracting Foundation, Chicago, IL, 2004.
83. "Asphalt Density from Compactor Vibration Levels," American Society of Civil Engineers Committee on Construction Quality and Inspection, Charlotte, NC, 1999.
84. "Asphalt Density from Compactor Vibration Levels," American Society of Civil Engineers Committee on Construction Quality and Inspection, Charlotte, NC, 1999.
85. "A Quality-Based Contractor Performance Rating System," American Association of Highway and Transportation Officials (AASHTO), Subcommittee on Construction, Portland, ME, 1998.
86. "A Quality-Based Contractor Performance Rating System," Transportation Research Board, Committee A2F05, Committee on Construction Management, 1998.

87. "G.P.S.-Aided Quality Control," 77th Transportation Research Board Annual Meeting, Washington, D.C., 1998.

National Presentations (with a Refereed Paper) (17):

88. "A Report on the NCHRP 10-99 Project: Framework for Implementing Constructability Across the Entire Project Development Process: NEPA to Final Design" 97th Transportation Research Board Annual Meeting, Washington, DC, 2019.
89. "Certification of Technicians and Equipment for Underground Pipe Inspection"; 92nd Transportation Research Board Annual Meeting, Washington, DC, 2014.
90. "Subsequential Findings: Counterfeit Materials and Equipment in the Construction Supply Chain," 91st Transportation Research Board Annual Meeting, Washington, DC, 2011
91. "Use of Innovative Contracting Methods by DOTs – Project Managers Speak"; 1st International Transportation Construction Management Conference, Orlando, FL, 2009
92. "Identification and Demonstration of Technology Adaptable to Locating Water in Post-tensioned Bridge Tendons"; 87th Transportation Research Board Annual Meeting, Washington, DC, 2008.
93. "Highway Construction Quality Index for Florida"; 87th Transportation Research Board Annual Meeting, Washington, DC, 2008.
94. "Traffic Impact on Project Time Performance during Incentive Construction Projects"; Proceedings, 1st International Conference on Transportation Construction Management; Orlando, FL; 2008 pp. CD
95. "Identifying Causes for Delay in Highway Construction Projects," 86th Transportation Research Board Annual Meeting, Washington, DC, 2007
96. "A Decision-making Model for Base Material Options"; 85th Transportation Research Board Annual Meeting, Washington, DC, 2006.
97. "Simulation Tools for the Economic Evaluation of Base Construction," Construction Research Congress, San Diego, CA, 2005.
98. "Maintaining Preliminary Estimate Accuracy in a Changing Economy," American Society of Civil Engineers Specialty Conference on Leadership and Management in Construction, Hilton Head, SC, 2004.
99. "The Change to End-result Specifications: Where are We Now?" 82nd Transportation Research Board Annual Meeting, Washington, DC, 2003.
100. "Application of Asphalt Quality Control Using Vibration Analysis," American Society of Civil Engineers Annual Meeting, Seattle, WA, 2000.
101. "Asphalt Density from Compactor Vibration Levels," Proceedings of American Society of Civil Engineers 6th Construction Congress, Orlando, FL, 2000.
102. "Asphalt Quality Control Through Compactor Vibratory Responses," American Society of Civil Engineers 5th Materials Congress, Cincinnati, OH, 1999.

103. “Contractor Qualification - Where Are We?,” 78th Transportation Research Board Annual Meeting, Washington, DC, 1999.
104. “Determining Relative Density Through Compactor Vibratory Measurement,” 77th Transportation Research Board Annual Meeting, Washington, DC, 1998.

State Presentations (10)

105. Florida Department of Transportation / Florida Transportation Builders Association Alternative Contracting Methods Conference—Tallahassee, Florida. “What is CM/GC?” 2020.
106. University of Florida Office of Facilities, Planning and Construction – Gainesville, Florida. “Product Integrity Concerns from Low-cost Sourcing Countries,” 2012
107. Florida Engineering Society Annual Summer Conference – Miami Beach, Florida. “The Value of CM/GC as a Tool for Infrastructure Project Delivery,” 2011
108. Florida Engineering Society Annual Summer Conference – Miami Beach, Florida. “The Value of CM/GC as a Tool for Infrastructure Project Delivery,” 2011
109. Florida Department of Transportation State Office of Structural Design – Tallahassee, Florida. “Using Gamma Ray Spectroscopy to Identify and Locate Water in Post-Tensioned Bridge Conduits,” 2005.
110. Florida Department of Transportation State Office of Materials and Research - Gainesville, Florida. “An On-Board Density Meter,” 1999.
111. Florida Department of Transportation District Three Bituminous Office - Chipley, Florida. “An On-Board Density Meter,” 1999
112. Florida Department of Transportation State Office of Materials and Research - Gainesville, Florida. “An On-Board Density Meter,” 1998.
113. Pennsylvania Transportation Institute Annual Transportation Conference - University Park, Pennsylvania. “Determining Relative Density Through On-Board Vibratory Measurement,” 1998.
114. Associated Pennsylvania Constructors / Pennsylvania Department of Transportation Annual Construction Meeting - Hershey, Pennsylvania. “An On-Board Density Meter,” 1998.

Local presentations and poster sessions (13)

115. Faculty Commons Monthly Luncheon; “Called to the Academy”; University of Florida; Gainesville, Florida, 2019.
116. Fellowship OF Christian Athletes; “Called to the Academy”; University of Florida; Gainesville, Florida, 2017.
117. Faculty Commons Monthly Luncheon; “Why We Work: Christian Faculty Setting the Pace as the Best Workers on the Faculty”; University of Florida; Gainesville, Florida, 2017.

118. Induction Ceremony – Bryan Kornblau to the UF Construction Hall of Fame; University of Florida, Gainesville, FL, 2017.
119. “ICM and Beyond” Faculty of the Provost’s Office; University of Florida, Gainesville, FL, 2017.
120. Research Showcase; College of Design, Construction and Planning, University of Florida; Gainesville, Florida, “Evaluation of Alternative Construction Methods for Highway Construction Projects and Their Value for State DOTs,” (poster session) 2017.
121. Research Showcase; College of Design, Construction and Planning, University of Florida; Gainesville, Florida, “Alternative Contracting,” (poster session) 2017.
122. Research Showcase; College of Design, Construction and Planning, University of Florida; Gainesville, Florida, “Alternative Contracting,” 2017.
123. Research Showcase; College of Design, Construction and Planning, University of Florida; Gainesville, Florida, “Guide for Design Management on Design-Build and Construction Manager / General Contractor Projects,” (poster session) 2015.
124. Research Showcase; College of Design, Construction and Planning, University of Florida; Gainesville, Florida, “Guide for Design Management on Design-Build and Construction Manager / General Contractor Projects,” 2015.
125. Faculty Commons Monthly Luncheon; “Called to the Academy”; University of Florida; Gainesville, Florida, 2014.
126. Research Showcase; College of Design, Construction and Planning, University of Florida; Gainesville, Florida, “The Threat of Counterfeit Construction Products to Project Supply Chain Integrity,” 2014.
127. Research Showcase; College of Design, Construction and Planning, University of Florida; Gainesville, Florida, “Best Practices for Inspection of Utility Pipe System Construction,” (poster session) 2014.

Other (5)

Presentations for which Dr. Minchin was a contributor but did not present (5)

128. “21st Century Project Delivery: Better, Faster, and Smarter Ways of Doing Business Utilizing CM/GC”; American Public Works Association Congress, Toronto, Ontario, Canada; Presented by G. Hostetler, 2014.
129. “A Synthesis of Fast Track Highway Construction Delivery in the U.S.”; Proceedings, World Building Congress, Conseil International du Batiment (cib), Brisbane, Australia; Presented by G. Migliaccio, 2013.
130. “Financial Risk Assessment for Highway Bridges”; Proceedings of the 6th International Conference on the Role of Engineering Towards a Better Environment, Alexandria, Egypt; Presented by T. Hegazy, 2007.

131. “Contractor Qualification Based on Quality,” Proceedings of Canadian Society of Civil Engineers Annual Meeting, Presented by G.R. Smith, 1999.

132. “An On-Board Density Meter,” Pennsylvania Department of Transportation State Bituminous Office - Harrisburg, Pennsylvania; Presented by H.R. Thomas, 1998.

CONTRACTS AND GRANTS SINCE JOINING RINKER SCHOOL FACULTY

Role	Agency	Grant Title	Total Award	%	Rinker Amount	%	From	To
PI*	National Cooperative Highway Research Program (NCHRP)	Managing Enhanced Risk in the Mega-Project Era	\$150,000	25.0	\$37,500	100.0	2020	2022
PI	NCHRP	Framework for Implementing Constructability Across the Entire Project Development Process: NEPA to Final Design	\$450,000	100.0	\$450,000	100.0	2018	2020
PI	Florida Department of Transportation (FDOT)	Alternative Contracting	\$139,000	100.0	\$139,000	100.0	2015	2016
PI*	Construction Industry Institute (CII)	Managing a Portfolio of Projects – Metrics for Improvement	\$220,000	21.6	\$47,531	100.0	2012	2014
PI	NCHRP	Design-Management Guide for Design-Build and Construction Manager/General Contractor Projects	\$400,000	100.0	\$400,000	45.0	2012	2014
PI	FDOT	Best Practices for Inspection of Utility Pipe System Construction	\$116,690	100.0	\$116,690	100.0	2011	2014
PI	Balfour-Beatty	Performance of Construction Manager-at-Risk for Highway and Bridge Projects in the Southeastern United States	\$ 19,500	100.0	\$ 19,500	100.0	2010	2011
PI/co-PI**	FDOT	A Comprehensive Solar Power System for the Turkey Lake Plaza	\$315,551	100.0	\$315,551	25.0	2009	2009
PI	CII	Product Integrity Concerns in Low-Cost Sourcing Countries	\$222,987	100.0	\$222,987	66.7	2008	2010
PI	Electrical Contracting Foundation (ECF)	Validation and Quantification of Existing Negotiated Workers’ Compensation Systems	\$ 41,250	100.0	\$ 41,250	100.0	2008	2009
Totals			\$1,924,978		\$1,790,009			

* - Dr. Minchin served as PI for the UF research effort. UF served as Co-PI to another entity.

** - Dr. Minchin was the PI during the procurement of the contract, but after procurement, he stepped aside for Dr. C. Kibert to act as PI since it was more in Dr. Kibert’s area of expertise.

UF CONTRACTS AND GRANTS BEFORE JOINING RINKER SCHOOL FACULTY

Role	Agency	Grant Title & Dates	Total Award	%	Candidate Amount	%	From	To
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PI	National Science Foundation (NSF)	Location of Water in Civil Structures Using Gamma Ray Spectroscopy	\$50,000	100.0	\$50,000	100.0	2006	2006
Co-PI	Federal Highway Administration (FHWA)	Field Analysis of Different Admixtures Performance in Precast PCC Piles in Extremely Corrosive Conditions	\$400,000	100.0	\$200,000	50.0	2006	2008
Co-PI	Florida Department of Transportation (FDOT)	Evaluation of Alternative Contracting Techniques on FDOT Construction Projects	\$146,718	100.0	\$46,718	30.0	2006	2006
Co-PI	FDOT	Development of Concrete Mixtures Containing Highly Reactive Pozzolans for Improved Durability in Florida Environments	\$ 289,651	100.0	\$ 144,826	50.0	2006	2008
PI	FDOT	Assessing the Appropriate Construction Quality Index	\$36,750	100.0	\$36,750	100.0	2006	2007
PI	Electrical Contracting Foundation (ECF)	Quantified Analysis of Effectiveness of Existing Workers Compensation Programs	\$82,500	100.0	\$82,500	100.0	2006	2006
PI	FDOT	Identification and Demonstration of a Technology Adaptable to Locating Water in Post-tensioned Bridge Tendons	\$ 50,000	100.0	\$ 50,000	100.0	2005	2006
PI	ECF	Collective Bargaining of Workers' Compensation – Making NECA Chapters a Player	\$75,000	100.0	75,000	100.0	2005	2005
PI	National Cooperative Highway Research Program (NCHRP)	Analysis of Non-destructive Testing Methods for Asphalt Pavement – Phase II	\$12,500	100.0	\$12,500	100.0	2004	2005
PI	FDOT	An Economic Evaluation Based on Total Cost of Aggregate Base vs. Asphalt Base	\$81,067	100.0	\$81,067	100.0	2002	2003
Total research contracts funded at UF (2001 - 2007)			\$1,224,186					

ROLE	TOTAL	Direct Costs	Indirect Costs
Principal Investigator	\$1,163,509	\$810,780	\$314,479
Co-Principal Investigator			
Investigator			
Senior Personnel			
Sponsor of Junior Faculty			
Totals	\$1,163,509	\$810,780	\$314,479

Funded Internally –

Role	Agency	Title & Dates	Total Award	%
PI	Rinker Foundation	A Model to Improve the Accuracy of Preliminary Cost Estimates for Public Transportation Construction Projects 2012 - 2017	\$60,000	100.0
PI	Rinker Foundation	Design-Management Guide for Design-Build and Construction Manager/General Contractor Projects 2012 - 2013	\$30,000	100.0
PI	Rinker Foundation	Product Integrity Concerns in Low-Cost Sourcing Countries 2008 - 2010	\$15,000	100.0
PI	UF	Synthesis of Construction Owner Processes in a Global Environment 2006 - 2007	\$6000	100.0
		Total	\$111,000	100.0

ROLE	TOTAL
Principal Investigator	\$111,000
Co-Principal Investigator	
Investigator	
Senior Personnel	
Sponsor of Junior Faculty	
Totals	\$111,000

Submitted – Pending Decision

Role	Agency	Title & Dates	Total Award	%

Submitted - But Not Funded

Title	Role(g)	Agency	Total Budget	Date of Proposal
Design-Build Process Research	PI	South Carolina Department of Transportation	\$240,000	2017
Systematic Approach for Estimating Construction Contract Time: A Guidebook	PI	National Cooperative Highway Research Program (NCHRP)	\$500,000	2017
A Guidebook for Implementing Alternative Technical Concepts into Project Delivery Methods	PI	NCHRP	\$450,000	2017

Title	Role(g)	Agency	Total Budget	Date of Proposal
A Guidebook for Post-Award Contract Administration for Highway Projects Delivered Using Alternative Contracting Methods	PI	NCHRP	\$105,000	2016
AASHTO Partnering Handbook, 2nd Edition	PI	NCHRP	\$105,000	2014
Guidebook for an Integrated Roadway Signing System	Co-PI	NCHRP	\$150,000	2014
Integrating 3D Digital Models into Asset Management	Co-PI	Federal Highway Administration (FHWA)	\$238,790	2014
Definition and Measurement of Engineering/Design Deliverable Quality	Co-PI	Construction Industry Institute (CII)	\$225,000	2013
Survey of Construction Data in the PR of China, the US and Europe	PI	British Council – Global Innovation Initiative	\$225,000	2013
Alternative Technical Concepts for Design-Build and Construction Manager/General Contractor (CMGC) Projects	PI	NCHRP	\$40,000	2012
Deploying Best Practices in Developing Countries	PI	CII	\$225,000	2011
Construction Guide for Construction Manager/General Contractor Projects	PI	NCHRP	\$400,000	2010
Renewable Energy Guide for Highway Maintenance Facilities	Co-PI	NCHRP	\$500,000	2009
Active Interrogation Techniques for Locating Bleedwater and Rust in Post-tensioned and Cable-stayed Bridges	PI	NCHRP	\$149,050	2009
Nighttime Construction Impacts on Safety, Quality, and Productivity	PI	NCHRP	\$100,000	2008
Transition in the 21 st Century – From Electrical Contractor to Energy Service Provider	Co-PI	Electrical Contracting Foundation (ECF)	\$65,000	2008
Multi-level Transformational Leadership Training for NECA Contractors	Co-PI	ECF	\$55,000	2008

Title	Role(g)	Agency	Total Budget	Date of Proposal
Product Counterfeiting in the Electrical Industry: The Sources; The Impact; The Protection	PI	ECF	\$78,000	2008
Defining the Business Case for Corporate Sustainability Planning	Co-PI	National Association of Electrical Distributors (NAED)	\$106,000	2008
Selling Energy Management Solutions	Co-PI	NAED	\$97,000	2008
Active Interrogation Techniques for Locating Bleedwater and Rust in Post-tensioned and Cable-stayed Bridges	PI	NCHRP	\$150,000	2008

GRADUATE COMMITTEE ACTIVITIES

Faculty's Role	Student	Major	Complete Date
Chair Ph.D	Reihaneh Samsami	Design, Construction, and Planning	Transferred
Chair Ph.D	Yifeng Tian	Design, Construction, and Planning	May, 2023
Chair Ph.D	Yuanxin Zhang	Design, Construction, and Planning	August 2017
Chair Ph.D	Lourdes Ptschelinzew	Design, Construction, and Planning	August 2021
Chair Ph.D	Kelu Guo	Civil Engineering	December 2006
Chair Ph.D	Jaehyun Choi	Civil Engineering	August 2006
Co-Chair Ph.D	Mohammaed Elmashaleh	Civil Engineering	December 2003
Chair Master's	Tong Wang	Construction Management	May, 2020
Chair Master's	Dev Shah	Construction Management	May, 2017
Chair Master's	Mawutor Agudu	Building Construction	
Chair Master's	Fernando Corona Chacon	Building Construction	August 2013
Chair Master's	Xiaoxiao Li	Building Construction	August 2011
Chair Master's	Shannon Close	Building Construction	May 2011
Chair Master's	Shuai Cui	Building Construction	May 2010
Chair Master's	Russel Dingman	Building Construction	December 2009
Chair Master's	Steven Thurn	Building Construction	December

			2008
Chair Master's	James Swick	Building Construction	December 2008
Chair Master's	Allen Smith	Building Construction	December 2008
Chair Master's	Michael James	Civil Engineering	August 2007
Chair Master's	Jose Sotomayor	Civil Engineering	May 2007
Chair Master's	Scott Kaufmann	Civil Engineering	May 2007
Chair Master's	Wesley Banks	Civil Engineering	May 2007
Chair Master's	Mahammad Dudekula	Civil Engineering	May 2007
Chair Master's	Johann Weekes	Civil Engineering	December 2006
Chair Master's	John Mogge	Civil Engineering	August 2006
Chair Master's	Steven Mauro	Civil Engineering	August 2006
Chair Master's	Becky Li	Civil Engineering	August 2006
Chair Master's	Joseph Wiggins	Civil Engineering	May 2006
Chair Master's	Arjun Paul	Civil Engineering	May 2006
Chair Master's	Jesse O'brien	Civil Engineering	May 2006
Chair Master's	Prajakta Joshi	Civil Engineering	May 2006
Chair Master's	Kellie Loper	Civil Engineering	May 2006
Chair Master's	Atul Bakale	Civil Engineering	May 2006
Chair Master's	Ryan Chancey	Civil Engineering	April 2005
Chair Master's	Bo Merlino	Civil Engineering	April 2005
Chair Master's	Peter Chase	Civil Engineering	December 2004
Chair Master's	Sharda Singh	Civil Engineering	December 2004
Chair Master's	Jeremy Thompson	Civil Engineering	August 2004
Chair Master's	Ketan Thakkar	Civil Engineering	August 2004
Chair Master's	Raja Saoud	Civil Engineering	December 2003
Chair Master's	Kelu Guo	Civil Engineering	August 2003
Chair Master's	Alejandro Cervera	Civil Engineering	December 2002
Co-Chair Master's	Christopher Decker	Building Construction	December 2011
Co-Chair Master's	Javier Estopinan	Building Construction	May 2010
Co-Chair Master's	Kenneth Perrine	Building Construction	May 2009
Member Ph.D	Reza Masoumi	Northeastern University	August 2015
Member Ph.D	Bradley Hunter	Design, Construction, and Planning	
External Ph.D Chair	Wayne Rilko	Civil Engineering	
Member Ph.D	Joe Wills	Design, Construction, and	

		Planning	
Member Ph.D	Philip Barlow	Design, Construction, and Planning	May 2015
Member Ph.D	Matthew Stevens	Design, Construction, and Planning	December 2012
Member Ph.D	Edward Malone	Design, Construction, and Planning	December 2010
Member Ph.D	Seong Kim	Design, Construction, and Planning	December 2009
Member Ph.D	Sang Lhee	Design, Construction, and Planning	December 2009
Member Ph.D	Guy Abi-nader	Design, Construction, and Planning	August 2009
Member Ph.D	Junyong Ahn	Civil Engineering	August 2008
Member Ph.D	Jinlee Kim	Civil Engineering	August 2006
Member Ph.D	Jae-Ho Pyeon	Civil Engineering	December 2005
Member Ph.D	Juan Suarez	Civil Engineering	December 2004
Member Ph.D	Seung Lee	Civil Engineering	December 2003
Member Ph.D	Cristina Cosma	Civil Engineering	December 2003
Member Master's	Craig Roberts	Building Construction	May 2013
Member Master's	Sean Compton	Building Construction	August 2011
Member Master's	Drew Berman	Building Construction	May 2009
Member Master's	Yamal Yidios	Civil Engineering	August 2008
Member Master's	Peter Donkor	Building Construction	May 2008
Member Master's	Joshua Casart	Building Construction	May 2008
Member Master's	Matthew Ruben	Building Construction	May 2008
Member Master's	Supriya Ghule	Building Construction	May 2008
Member Master's	Edward Roske	Civil Engineering	May 2007
Member Master's	Virendra Kothari	Civil Engineering	December 2005
Member Master's	Monica Gomez	Civil Engineering	December 2005
Member Master's	Deepti Bhadkamkar	Civil Engineering	December 2005
Member Master's	Michael Coe	Civil Engineering	August 2005
Member Master's	Kemper Craig	Civil Engineering	August 2005
Member Master's	Akin Altunbas	Civil Engineering	August 2005
Member Master's	Brian Ellis	Civil Engineering	April 2005
Member Master's	George Brockway	Civil Engineering	December 2004

Member Master's	Reginald Mcneil	Civil Engineering	August 2004
Member Master's	Richard English	Civil Engineering	August 2004
Member Master's	Michael Demetriades	Civil Engineering	December 2003
Member Master's	Cristina Cosma	Civil Engineering	December 2003
Member Master's	Isabelle Detter	Civil Engineering	August 2003
Member Master's	Erick Arroyo	Civil Engineering	May 2003
Member Master's	Michael Maruri	Civil Engineering	May 2003
Member Master's	Juan Suarez	Civil Engineering	August 2002
Member Master's	O'neil Crossman	Civil Engineering	August 2002
Member Master's	Deepalaxmi Rasalkar	Civil Engineering	August 2002
Member Master's	Jinlee Kim	Civil Engineering	August 2002
Member Master's	Mehulkumar Patel	Civil Engineering	May 2002
External Ph.D Chair	Don Lewis	Civil Engineering	May 2009

UNIVERSITY GOVERNANCE AND SERVICE

University

- University of Florida – President’s Committee on Intercollegiate Athletics, Member, 2012 – 2015
- University of Florida – Admissions Committee
 - Presentation: Why home-educated students should be treated the same as traditional students in the UF Admissions process (presented to whole committee, including VP for Admissions), November 14, 2012
 - Presentation: Why home-educated students should be treated the same as traditional students in the UF Admissions process (presented to VP for Admissions and other key members), October 4, 2011
- University of Florida - Kappa Alpha Order, Beta Zeta Chapter Advisor, 2011 – Present
- University of Florida – Faculty Advisor/Sponsor, College Republicans, 2010 – Present
- University of Florida – Faculty Advisor/Sponsor, Cross Impact Campus Ministry, 2007 – present
- University of Florida – Presidential Inauguration Delegate, 2004
- University of Florida – Faculty Advisor/Sponsor, Victory Campus Ministry, 2003 – present

College

- College of Design, Construction and Planning - Search Committee, Assoc. Dean for Undergraduate Education and Facilities, 2017

- College of Design, Construction and Planning - Search Committee, Assoc. Dean for Research and Graduate Studies, 2015
- College of Design, Construction and Planning - Search Committee, Assoc. Dean for Global and Community Outreach, 2015
- College of Design, Construction and Planning – Tenure and Promotion Committee, 2014 - 2015
- College of Design, Construction and Planning - Search Committee, Director of Rinker School, 2012
- College of Design, Construction and Planning - Search Committee, Director of Rinker School, 2010 – 2011
- College of Design, Construction, and Planning - Public Relations Committee, 2009 - present
- College of Design, Construction, and Planning - International Relations Committee, 2008 - 2009
- College of Engineering - Lecturer, “Step Up,” Summer program for promising middle school students proficient in math and science, 2006
- College of Engineering - Lecturer,, “Eye on Engineering,” Summer program for promising high school students proficient in math and science, 2006

Department/Center

- Rinker School of Construction Management – **Director of Masters Programs** – 2011 – 2018.
- Rinker School of Building Construction – Faculty Advisory Committee, 2011 – present.
- Rinker School of Building Construction - Research and Graduate Program Committee, 2007 – 2018; **Chair**, 2011 – 2018.
- Rinker School of Building Construction - Search Committee, Director of Fire and Emergency Services / Emergency and Disaster Management programs, 2013
- Rinker School of Building Construction - Coach, Heavy Civil Construction Competition Team, 2007 – present
- Rinker School of Building Construction - Faculty Advisor/Sponsor, Florida Transportation Builders Association Student Chapter, 2007 - present

INTERNATIONAL ACTIVITIES

International Committee Memberships (13):

1. Member Technical Committee, 11th International Structural Engineering and Construction Congress (Cairo, Egypt). 2020-21

2. Member – Technical Committee, 3rd European and Mediterranean Structural Engineering and Construction Conference; “Holistic Overview of Structural Design and Construction” (Limassol, Cyprus). 2019-20
3. Member - Technical Committee, 10th International Structural Engineering and Construction Congress (Chicago, IL). 2018-19
4. Member - International Conference on Professionalism and Ethics in Construction (London, UK). 2018
5. Member - Technical Committee, 9th International Structural Engineering and Construction Congress (Valencia Spain). 2016-17
6. Member - Technical Committee, 1st European and Mediterranean Structural Engineering and Construction Congress (Istanbul, Turkey). 2015-16
7. Member - International Organizing Committee, 1st International Conference for Sustainable Development and Management (Hong Kong). 2015-16
8. Member - Technical Committee, 8th International Structural Engineering and Construction Congress (Melbourne, Australia). 2014-15
9. Member – Planning Committee, 144th Annual ASCE Meeting/Celebration of 100th Anniversary of Opening of the Panama Canal (Panama City, Panama). 2013-14
10. Member - Technical Committee, 2nd Australasia and Southeast Asia Structural Engineering and Construction Congress (Bangkok, Thailand). 2013-14
11. Member - Technical Committee, 7th International Structural Engineering and Construction Congress (Honolulu, HI). 2012-13
12. Member – Global Network for International Construction (GloNIC) (Beijing, China). 2009-Present
13. Member - Conseil International du Batiment (CIB) Committee on Construction Management, w65 (Brussels, Belgium). 1998-Present

Papers Presented at International Conferences (26):

1. **Minchin, R.E.**; Tran, D.; Tian, Y.(g); Im, H.(g); “Analysis of Impediments to a Successful Constructability Process in U.S. Highway Construction”; 10th International Structural Engineering and Construction Conference; ISEC; Chicago, IL, 2019.
2. **Migliaccio, G.**; **Minchin, R.E.**; Gatti, U.; Ptschelinzew(g) , L.R.; Atkins, K.; Hostetler, G.; “Best Practices for the Design Process for the Horizontal Design-Build”; 10th International Structural Engineering and Construction Conference; ISEC; Chicago, IL, 2019.
3. **Minchin, R.E.**; Pan, J.; Walters, R.C.; “Key Indicators and Recommendations to Mitigate Counterfeiting in Construction Supply Chains”; Abstract submitted for publication in the Proceedings of the 1st International Conference on Professionalism and Ethics in Construction; London, UK, 2018.

4. **Minchin, R.E.**; Ptschelinzew(g) , L.R.; Migliaccio, G.; Gatti, U.; Atkins, K.; Hostetler, G.; Zhang, Y. (g); “Best Practices for the Design Process for the Construction-Manager-as-General-Contractor”; Conference Presentation Series; Athens Institute for Education and Research; Athens, Greece, 2018.
5. **Minchin, R.E.**; Choksi, P (g); Konrath, L.; Scott, S.; Y. Zhang (g); “A Preliminary Study of Alternative Technical Concepts in Highway Project Delivery Methods in the US”; 9th International Structural Engineering and Construction Conference, Valencia, Spain, 2017.
6. Zhang, Y. (g); Minchin, R.E.; “Forecasting Conceptual Costs of Bridge Projects Using Non-Parametric Regression Analysis”; Proceedings, 9th International Structural Engineering and Construction Conference, Valencia, Spain, 2017.
7. Ziqiang Zeng, Z. (g); **Minchin, R.E.**; Ptschelinzew, L.R. (g); Zhang, Y. (g); “Applying Multi-objective Decision Making Model to Selection of Multiple Project Delivery Methods for Multi-project Construction Projects Under Uncertainty,” 2nd International Structural Engineering and Construction Australasia and Southeast Asia Conference, Bangkok, Thailand, 2014.
8. Ptschelinzew, L.R. (g); **Minchin, R.E.**; Issa, R.R.A.; “Development of a System to Validate and Certify Equipment and Technicians for the Inspection of Underground Pipe,” 2nd International Structural Engineering and Construction Australasia and Southeast Asia Conference, Bangkok, Thailand, 2014.
9. Ptschelinzew, L.R.(g) ; **Minchin, R.E.**; Migliaccio, G.; Atkins, K.; G.; Hostetler, G.A.; Warne, T.R.; Nettuno, G.; “Best Practices in Design Process Development for Accelerated Construction Project Delivery”; Proceedings, 7th International Structural Engineering and Construction Conference, Honolulu, Hawaii, 2013
10. **Minchin, R.E.**; Ptschelinzew, L.R.(g) ; Issa, R.R.; “Best Practices for Inspection of Underground Pipe Construction”; Proceedings, 7th International Structural Engineering and Construction Conference, Honolulu, Hawaii, 2013
11. **Minchin, R.E.**; Migliaccio, G.; Li, X(g) .; Issa, R.R.; Atkins, K.; Vargas, G.; Hostetler, G.A.; “Construction and Design Issues for Construction Manager / General Contractor Highway Projects”; Counseil International du Batiment (cib) Conference for Management of Construction Research to Practice, Montreal, Quebec, Canada, 2012
12. **Minchin, R.E.**; Christmas, S.A.; “Common Sense Solutions to the U.S. Workers’ Compensation Epidemic”; Counseil International du Batiment (cib) Conference for Management of Construction Research to Practice, Montreal, Quebec, Canada, 2012
13. **Minchin, R.E.**; Mogge, J.W(g) .; Christmas, S.A.; “Synthesis of Viable Negotiated Alternatives for Contractors’ Workers’ Compensation”; 6th International Structural Engineering and Construction Conference, Zurich, Switzerland, 2011
14. **Minchin, R.E.**; Dingman, R.T(g) .; Walters, R.; “Preliminary Findings: Counterfeiting in the International Construction Industry”; 6th International Structural Engineering and Construction Conference, Zurich, Switzerland, 2011

15. **Minchin, R.E.**; Walters, R.; Pan, J.; R., Fang, D.; “Counterfeit Construction Products from Low-Cost Sourcing Countries”; Conseil International du Batiment (cib) Conference for Management and Innovation for a Sustainable Environment, Amsterdam, The Netherlands, 2011
16. **Minchin, R.E.**; Li, X.(g) ; “CM-at-Risk as a Highway Construction Delivery System in the Southeastern United States”; Conseil International du Batiment (cib) Conference for Management and Innovation for a Sustainable Environment, Amsterdam, The Netherlands, 2011
17. **Minchin, R.E.**; Thurn, S.B.(g) ; Ellis, R.D.; “The Move to Nighttime Construction – How are U.S. Highway Agencies Coping?” Conseil International du Batiment (cib) World Building Congress, The Lowry, Salford Quays, United Kingdom, 2010
18. **Minchin, R.E.**; Tuell, S.(g) ; Mogge, J.W(g) .; “Managing Workers’ Compensation for Contractors– A Synthesis” Conseil International du Batiment (cib) World Building Congress, The Lowry, Salford Quays, United Kingdom, 2010
19. **Minchin, R.E.**; Baciak, J.; Haghighat, A.; “Active Interrogation Techniques for Non- destructive Investigation of Historic Structures”; Association for Preservation Technology International; Montreal, Quebec, Canada, 2008
20. Pyeon, J.H.(g) ; Ellis, R.D.; **Minchin, R.E.**; Glagola, C.R.; “Traffic Impact on Project Time Performance during Incentive Construction Projects”; 1st International Conference on Transportation Construction Management; Orlando, FL; 2008
21. Ahn, J.Y.(g) ; **Minchin, R.E.**; Herbsman, Z.; “Documenting the Real Causes for Delay in Highway Construction Projects,” Conseil International du Batiment, Helsinki, Finland, 2005
22. El-Mashaleh, M.(g) ; **Minchin, R.E.**; O’Brien, W. J.; “Benchmarking Construction Firm Performance,” Conseil International du Batiment, Helsinki, Finland, 2005
23. **Minchin, R.E.**; Ellis, R.D.; Thakkar, K.(g) ; “CM-at-Risk Delivery System and the Miami Intermodal Center,” Conseil International du Batiment, Helsinki, Finland, 2005
24. Campo, M.(g); **Minchin, R.E.**; Glagola, C.R.; Thakkar, K.(g) ; “Managing Preliminary Estimates in a Changing Economy,” Conseil International du Batiment, Helsinki, Finland, 2005
25. **Minchin, R.E.**; Swanson, D.C.; Thomas, H.R.; “Computers in Intelligent Compaction”; International Conference on Computers in Civil Engineering, Cancun, Mexico, 2005
26. **Minchin, R.E.**; Thomas, H.R.; “Measuring Asphalt Density Through Compactor Vibratory Responses,” 14th International Symposium of Automation and Robotics in Construction, Pittsburgh, PA, 1997

Papers Presented at International Conferences by others (5)

1. Im, H. (g); Minchin, R.E.; Hakim, H.; Zhang, Y.; “A Prediction Model To Monitor The Financial Soundness Of Construction Firms In Korea And The US”; Proceedings of the Construction Research Congress, New Orleans, LA, 2018
2. Minchin, R.E.; Ptschelinzew(g) , L.R.; Migliaccio, G.; Gatti, U.; Atkins, K.; Hostetler, G.; “A Synthesis of Fast Track Highway Construction Delivery in the U.S.”; World Building Congress, Conseil International du Batiment (cib), Brisbane, Australia, 2013
3. Choi, J.(g) ; Minchin, R.E.; Lee, S.; “Stochastic Simulation Model For Estimating Construction Time Durations”; 5th International Conference on Ubiquitous Information Technologies & Applications (CUTE 2010), Sanya, Hainan, China, 2010
4. Zayed, T.; Minchin, R.E.; Amer, M.; “Financial Risk Assessment for Highway Bridges”; 6th International Conference on the Role of Engineering Towards a Better Environment, Alexandria, Egypt, 2007.
5. Smith, G.R. and Minchin, R.E.; “Contractor Qualification Based on Quality,” Annual Meeting of Canadian Society of Civil Engineers Annual Meeting, Calgary, Alberta, 1999.

Invited International Presentations without Paper (7)

1. “Construction Supply Chain Integrity: Mitigating the Counterfeit Threat”; 2nd International Structural Engineering and Construction Australasia and Southeast Asia Conference, Bangkok, Thailand; 2014 (**Keynote Address**)
2. “The Steel Market and Counterfeiting: Impacts on the Economy,” The Steel Market and Counterfeiting, Cate’ Note’ -Nord, Sept Iles, Quebec, Canada; 2014 (**Keynote Address**)
3. **Keynote Address**, (Invited) “Counterfeit Product Concerns in Contemporary Construction Supply Chains”; Celebration of the 100th anniversary of the original opening and the re-opening of the Panama Canal and American Society of Civil Engineers 144th Annual Meeting; Panama City, Panama, 2014
4. “Product Integrity Concerns from Low-cost Sourcing Countries,” National Aeronautics and Space Administration (NASA), Kennedy Space Center, Cape Canaveral FL, with worldwide satellite hookup to nine remote locations; 2011 (**Only Presenter**)
5. “Current Trends in the Use of Delivery Systems in the U.S.”; National Faculty – Industry Workshop; Beijing, China; 2009 (**Keynote Address**)
6. “Product Integrity Concerns in Low-Quality Source Countries”; Global Network for International Construction; Beijing, China, 2009
7. “The Use of CM-at-Risk in Transportation Construction in the U.S.”; Faculty and PhD Student Research Workshop; Hong Kong; 2009

Significance of International Work:

1. Delivered **Keynote Address** at the first Steel Market and Counterfeiting Conference, organized by Cate' Note'-Nord, Sept Iles, Quebec, Canada; 2014
2. Research into counterfeit materials and products in the supply chains of construction projects was landmark research into this international problem. The reports and papers that came from the research represent the foundation for all future research on the subject and remain the best resources from academia for those hoping to eliminate those products from their supply chains or mitigate their effect. Dr. Minchin is in demand to share his knowledge on the subject all over the world.
3. Activities earned the University of Florida membership in the Global Network for International Construction, the top International construction organization headquartered in Asia. UF is listed as one of only five U.S. member universities, (Stanford, California-Berkeley, Purdue, Iowa State), 2009
4. Delivered **Keynote Address** (one of two) at the Annual Faculty-Industry Workshop at Tsinghua University; Beijing, China, 2009
5. One of 16 **delegates** from eight nations invited to discuss international construction research collaboration with the Vice President and Provost of Tsinghua University, Beijing, China, 2009
6. Awarded first research grant that involved an international university by the Construction Industry Institute (CII). Also, the first research project that involved data gathering from outside the United States, 2008
7. **Best-Paper** Award among 218 papers presented at the Counseil International du Batiment (cib) annual meeting in Helsinki, Finland, 2005

Visiting Scholars hosted

1. Ziqiang Zeng, College of Business, Sichuan University, Chengdu, P.R. China, 2013-14
2. Tingting Jiang, State Key Laboratory of Hydro Science and Engineering, Tsinghua, Beijing, P.R. China, 2014
3. Hanguk Ryu, Architectural Engineering Department, Changwon National University, Gyeongsangnam-do KOREA, 2016-17

ACTIVITIES IN THE PROFESSION

International

- **Technical Committee**, International Structural Engineering and Construction Conference No. 11, Cairo Egypt, member 2020/21
- **Technical Committee** , Europe - Mediterranean Structural Engineering and Construction Conference No. 3, Limassol, Cyprus, member 2019/20
- **Technical Committee**, International Structural Engineering and

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| Construction Conference No. 10, Chicago, Illinois, member | 2018/19 |
| • Technical Committee , International Conference on Professionalism and Ethics in Construction (London, UK) | 2018 |
| • Technical Committee , International Structural Engineering and Construction Conference No. 9, Valencia, Spain, member | 2016/17 |
| • Outstanding Reviewer for Construction Innovation: Information, Process, Management in the Emerald Literati Network 2015 Awards for Excellence; Emerald Group Publishing Limited, Bingley, United Kingdom, | 2015 |
| • Technical Committee , Europe - Mediterranean Structural Engineering and Construction Conference No. 1, Istanbul, Turkey, member | 2015/16 |
| • International Organizing Committee , First International Conference for Sustainable Development and Management, Hong Kong, member | 2015 |
| • Technical Committee , International Structural Engineering and Construction Conference No. 8, Sydney, Australia, member | 2014/15 |
| • Keynote Address , “Construction Supply Chain Integrity: Mitigating the Counterfeit Threat”; 2nd International Structural Engineering and Construction Australasia and Southeast Asia Conference, Bangkok, Thailand, | 2014 |
| • Keynote Address , (Invited) “Counterfeit Product Concerns in Contemporary Construction Supply Chains”; Celebration of the 100th anniversary of the original opening and the re-opening of the Panama Canal and American Society of Civil Engineers 144 th Annual Meeting; Panama City, Panama, | 2014 |
| • Keynote Address , first Steel Market and Counterfeiting Conference, organized by Cate’ Note’-Nord, Sept Iles, Quebec, Canada, | 2014 |
| • Technical Committee , Australasia and Southeast Asia Structural Engineering and Construction Conference No. 2, Bangkok, Thailand, member | 2014 |
| • Program Committee , American Society of Civil Engineers 144 th Annual Conference; Panama City, Panama | 2013/14 |
| • Authored only chapter written by an author from North America, “Project Delivery Systems and Innovation: The Case for US Road Building in the US?,” for book entitled <i>Construction Innovation</i> Blackwell Publishing, Ltd WILEY, Oxford, UK; | 2013 |
| • Technical Committee , International Structural Engineering and Construction Conference No. 7, Honolulu, HI, member | 2012/13 |

- Certified, Disputes Review Board, Chair 2009
- **Keynote Address**; Annual Faculty-Industry Workshop at Tsinghua University; Beijing, China 2009
- Certified, Disputes Review Board, Member 2007

National

- **Technical Working Group**, Federal Highway Administration, Implementation Support for Project Bundling, member 2020/21
- **Technical Working Group**, Federal Highway Administration, Project Bundling Guide and Training Program, member 2018/19
- **Technical Working Group**, Federal Highway Administration, Bridge Bundling Guide and Training Program, member 2017/18
- **Coordinator and Facilitator**, Workshop entitled “Successful Construction Acceleration through Fast-Track Delivery Systems,” Transportation Research Board, Washington, DC 01/14
- **Coordinator and Co-facilitator**, Workshop entitled “Design Management Process Framework for Design-Build and Construction Manager/General Contractor Delivery,” Transportation Research Board, Washington, DC 06/13
- **Coordinator and Facilitator**, Workshop entitled “Successful Construction Acceleration through Fast-Track Delivery Systems,” Transportation Research Board, Washington, DC 01/13
- Certified, Assessor of Underground Pipes, NASSCO # U13919 01/12
- **Chair** - ASCE Committee on Construction Inspection and Quality Control 01/10 - Present
- **Assistant Specialty Editor - Construction Materials and Methods**, ASCE Journal of Construction Engineering and Management 05/07 – 11/14
- ExCEED Teaching Workshop (sponsored by ASCE) (Fellowship awardee), West Point, NY 06/05
- National Workshop on Intelligent Compaction (sponsored by FHWA) (Delegate - invitation only), Auburn, AL 10/04
- National Workshop on Future Sensing Systems Needs, Technologies, and Partnerships (sponsored by NSF) (Delegate – invitation only), Tahoe City, CA 09/02
- Technical Advisory Board, ASCE Journal of Innovative

Construction Contracting Methods in Transportation Construction, 2004-06

- Unsolicited Panel for Information Technology and Infrastructure, 2002
National Science Foundation (reviewer for grants)
- Panel member, NCHRP Synthesis 282, *Project Management Information Systems*, 2000 Transportation Research Board.

State

- Florida, Registered Professional Engineer P.E. #38739 06/18/88

FURTHER INFORMATION

SUBMISSIONS FOR PUBLICATION (6)

Papers Submitted to Refereed Journals for Publication (4)

1. Tian, Y., Lu, Z., Zhang, Y., **Minchin, R.E.**, Caithness, A., “Finance Infrastructure Through Blockchain-based Tokenization”; **Conditionally Accepted** by publication to the Journal of Frontiers of Engineering Management; Beijing, PRC; Higher Education Press; Beijing, PRC; July 2020.
2. Wen, J. (g); Ghesari, M.; Jain, S. (g); Zhang, Y. (g); **Minchin, R.E.**; “Using Cloud-based Augmented Reality to 3D-enable the 2D Drawings of AISC Steel Sculpture: A Plan-reading Educational Experiment”; **Submitted** for publication to the Journal of Civil Engineering Education: American Society of Civil Engineers, Reston, VA; February 6, 2020.
3. Smadi, A.; Tran, D.; **Minchin, R.E.**; “Root-Cause Analysis of Barriers to the Constructability Review Process across State Transportation Agencies,” **Methods**; **Submitted** for publication to the Journal of Management in Engineering: American Society of Civil Engineers, Reston, VA; July 9, 2020.
4. Zhang, Y.; **Minchin, R.E.**, "Bibliometric Analysis of State of the Art in Construction Innovation Research," **Submitted** for publication to the Journal of Civil Engineering and Management; Taylor & Francis; Abington, UK; July, 2020.

Papers Submitted to Refereed Proceedings for Publication (2)

5. D’Angelo, D.; **Minchin, R.E.**; An, B. (g); “Application of Project Bundling”; **Abstract Submitted** for publication in the Proceedings of the International Structural Engineering and Construction Conference; Cairo, Egypt, July, 2021.
6. **Minchin, R.E.**; Tian, Y. (g); Myers, M. (g); “A Case Study in Integrating the Constructability Review Process into the Environmental Permitting Processes”; **Abstract Submitted** for publication in the Proceedings of the International Structural Engineering and Construction Conference; Cairo, Egypt, July, 2021.

Papers Recently Rejected, to be Improved and Resubmitted (5)

1. Zhang, Y. (g); **Minchin, R.E.**; “Predicting Cost Escalation of Large Public Transportation Projects Using Adaptive LASSO and Elastic Net”; Proceedings of the Construction Research Congress, New Orleans, LA; **Rejected. Will be re-written as a journal article.**
2. **Minchin, R.E.**; Zhang, Y. (g); Lucas, E.D.; Pan, J.; Walters, R.C.; “Culture, History and Sino-US Relations: Chinese Counterfeiting of Construction Products and Materials”; **Rejected** for publication by the Journal of International Relations of Asia-Pacific; Oxford University Press, Oxford UK; August, 2017 **Must change the title and conclusions to publish in Chinese journal.**
3. Shah, D. (g); **Minchin, R.E.**; Tian, Y. (g); Samsami, R. (g); Im, H. (g); “Comparison of the Performance of Alternative Contracting Methods in FDOT Construction Projects Between 2007 And 2016”; **Rejected** for publication by the Transportation Research Record, Journal of the Transportation Research Board; National Academy of Science; Washington, DC; M7nch1n1 August 1, 2018.
4. **Minchin, R.E.**; Ries; R.J.; Im, H. (g); Tian, (g) Y.; Issa, R.R.; “Industry Surveys Regarding Master’s Degree Program Options and Continuing Education in Construction Management”; **Submitted** for publication to Journal of Engineering Education; American Society of Engineering Education, Washington, DC; March 10, 2019.
5. Zhang, Y. (g); **Minchin, R.E.**; Chini, A.; Ptschelinzew, L. (g); Shah, D. (g); “Empirical Analysis of Cost and Time Performance of Alternative Contracting Methods”; **Submitted** for publication to the Journal of Management in Engineering; American Society of Civil Engineers, Reston, VA; November10, 2018.

Major Research Conducted Prior to Coming to UF

Title	Role*	Sponsor	Total Budget	Effective Dates	
				From	To
Asphalt Density Measurement from Compactor Vibratory Responses, Phase I	Co-PI	Caterpillar Corporation	\$18,500	07/01	09/01
Researching Methods of Delay Reduction for a Major Urban Interstate Project	PI	Iowa Department of Transportation	161,000	10/00	09/01
Planning A Large, Urban Interstate Project	Co-PI	Iowa Department of Transportation	100,000	10/99	09/00
Quality-Based Performance Rating of Contractors for Prequalification and Bidding Purposes	PI	National Cooperative Highway Research Program	200,000	04/97	07/00

Title	Role*	Sponsor	Total Budget	Effective Dates	
				From	To
Density Measurement from Compactor Vibratory Responses, Phase I and Phase II	Co-PI	Ingersoll-Rand Inc.	166,000	03/97	08/99
Total Prior to UF - \$645,500					

* Role: PI = Principal Investigator

Co-PI = Co-Principal Investigator