



### REGISTRATIONS

- Texas, P.E.
- Puerto Rico, P.E.

### EDUCATION

#### **Cornell University**

*Ph.D. Structural Engineering, 1980*

#### **Cornell University**

*M.S. Structural Engineering, 1978*

#### **University of Puerto Rico**

*B.S. Civil Engineering, 1975*

### SELECT PRACTICE AREAS

- Forensic Investigation
- Concrete Materials & Durability
- Structural Evaluation
- Concrete Construction
- Repair and Remediation
- Training and Education
- Litigation Support

### SELECT PROF. AFFILIATIONS

- American Concrete Institute (ACI)
- American Society of Civil Engineers (ASCE)
- American Society of Testing and Materials (ASTM)
- Structural Engineers Association of Texas (SEAoT)
- The American College of Forensic Examiners

### EXPERIENCE

Dr. Ramón Carrasquillo is the Founder and President of Carrasquillo Associates (CA). Ramón is recognized worldwide for his expertise in concrete materials, construction, and structural engineering. He has completed over 500 consulting assignments ranging from product developments, materials, and production of concrete to durability, specifications, construction practices, failure analyses, and repair and rehabilitation of existing structures.

Ramón was a professor and researcher at The University of Texas at Austin for 22 years. From 1992 to 1996, Ramón was the Associate Director of the International Center for Aggregates Research. In addition, Ramón was the Founder and President of Rainbow Materials, Inc., a ready mix concrete company which operated in the Central Texas market from 1994 until 2004. Ramón has published over 100 academic publications and reports and given over 400 technical presentations.

### SELECT TECHNICAL COMMITTEES

- ACI Committee 201 – Durability of Concrete
- ACI Committee 211 – Proportioning Concrete Mixtures
- ACI Committee 232 – Fly Ash and Natural Pozzolans in Concrete
- ACI Committee 301 – Specifications for Concrete
- ASTM Committee C09 – Concrete and Concrete Aggregates

### SELECTED PROJECTS

#### **Construction Materials and Durability**

- Mass Concrete Development and Placement for UT Health Sciences Center: Houston, TX
- Concrete Development and Placement for San Roque Dam and Reservoir: Manila, Philippines
- Architectural Concrete Development and Placement for Modern Art Museum of Fort Worth: Fort Worth, TX
- Development of Coal Combustion Byproduct for Use as Fill and Concrete Aggregate: San Juan, PR

#### **Forensics / Repair & Remediation**

- Cable Stayed bridge Over the Rio La Plata, Naranjito, Puerto Rico
- Evaluation and Repair of Valdez Marine Terminal: Valdez, AK
- Evaluating Cause and Preventing Cracks in Precast, Post-Tensioned Concrete Bridge Girders: San Juan, PR
- Structural Evaluation, Monitoring, and Repair of 18,500 Seat Arena: San Juan, PR
- Structural Evaluation and Remediation of Power Plant Mass Concrete Foundation: La Grange, TX
- Structural Evaluation and Repair of Bioreactor: Doha, Qatar
- Evaluation and Retrofit of Reinforced Concrete Cantilever: Austin, TX
- Structural Evaluation, Service Life Cost Analysis, & Repair Recommendations of Dos Hermanos Bridge: San Juan, PR
- Condition Assessment and Repair Recommendations of ABIA Structures: Austin, TX

### CONTACT INFO

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Work: 512-358-7020

**TEACHING EXPERIENCE**

Graduate and undergraduate courses on plain and reinforced concrete, construction materials, repair, and advanced topics in concrete, taught at the structural engineering and construction materials departments of The University of Texas at Austin.

**RESEARCH EXPERIENCE**

- Conduct research in the area of concrete materials, including repair and rehabilitation of concrete structures, fiber reinforced concrete, fly ash use in concrete, durability of concrete, and development of new technology in concrete materials
- Work with the Texas Department of Transportation on implementing research results into the field through visits to job sites and discussions with field engineers.
- Dr. Carrasquillo has worked on 49 different research projects to date investigating numerous characteristics, qualities, behavior, performance, and other properties of construction materials.

**SELECT PROFESSIONAL EXPERIENCE**

- Carrasquillo Associates, Ltd.
  - 1980 – Present: Founder & President
- Sustainable Earth Technologies, Inc.
  - 2010 – Present: Co-Founder & Sr. Vice President, CTO
- Rainbow Materials, Inc. – Ready Mix Concrete Company
  - 1994 – 2004: Founder & President
- CTS, Inc. – Aggregate Supply & Trucking Company
  - 1997 – 2003: Founder & President
- CFX, Inc. – Engineering Design and Consulting Firm
  - 1996 – 2000: President
- International Center for Aggregates Research
  - 1992 – 1996: Associate Director
- The University of Texas at Austin
  - 1980 – 2002: Professor & Researcher

**SELECT HONORS AND AWARDS**

- Honorary Member of the American Concrete Institute, 2023 – present
- Member of the PanAmerican Academy of Engineering, 2022 - present
- Member of the Sociedad de Ingenieros de Puerto Rico, 2023 – present
- Recognized as a 50 Year member of the American Concrete Institute, 2024
- Member, Comisión de Terremotos, Colegio de Ingenieros & Agrimensores de Puerto Rico, 2023 - present
- Member, Advisory Board of CREATE University Transportation Center
- National Academies of Sciences, Engineering, and Medicine: Member of the Analysis of Cause(s) of Failure and Collapse of 305 – Meter Telescope at the Arecibo Observatory, 2021-2022
- Member of the Puerto Rico Academy of Engineering, 2021 -present
- Member, The Littlefield Society, The University of Texas at Austin, August 2014
- Henry C. Turner Medal presented by the American Concrete Institute, March 2014
- Instituto de Ingenieros Civiles de PR, Dedicatoria Trigésim Séptima Asamblea General, 15 de mayo de 2009
- Miembro Honorario, Asociacion de Productores de Concreto de Puerto Rico, 2000
- Best of Session Sustainable Paper, Fall 2008 Meeting, American Society of Civil Engineers, Texas Section, Dallas, TX
- 1999 Top Ten Research Findings and Innovations Award presented by the Texas Department of Transportation
- Austin City Council Proclamation, "Ramon Carrasquillo Day," December 14, 1995
- The Lockheed Fort Worth Company Award for Excellence in Engineering Teaching, 1995
- Elected Fellow of the American Concrete Institute, 1993
- Elected Member of the Board of Directors of the American Concrete Institute, 2007
- T.Y. Lin Award, (ACI, ASCE, PCI), 1990
- Faculty Excellence Award, University of Texas, Fall 1988
- Leland Barclay Fellowship in Engineering, University of Texas, 1988-91
- Selected to present at the ACI Commemorative Lecture Series honoring Katherine & Bryant Mather during the Fall 2014 ACI Convention