

TEWODROS T. GHEBRAB

Assistant Professor of Civil, Environmental and Construction Engineering

Texas Tech University

Lubbock, Texas

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PH: (806) 834-3218

Professional Preparation

B.S.E. in Civil Engineering, Addis Ababa University, 1992

M.S.E. in Civil Engineering (Structural), the University of New South Wales, 1996

Ph.D. in Civil Engineering (Materials), Michigan State University, 2008

Professional Chronology

Assistant Professor of CECE, Texas Tech University (2014 – Present)

Assistant Professor of CONE, Texas Tech University (2009 – 2014)

Project Engineer, Walker Engineering, Inc. (2008 – 2009)

Research Assistant, Michigan State University. (2006 – 2007)

Senior Lecturer of Civil Engineering, the University of Asmara (1996 – 2004)

Graduate Assistant of Construction Engineering, Addis Ababa University (1992 – 1994)

Research Interest

Structure-property relationships of cementitious materials

Performance of cement based materials under adverse environment

Effects of mineral/chemical admixtures on the properties of cement based materials

Modeling of the properties of cement based materials containing nano-sized admixtures

Licensure

Licensed Professional Engineer in Texas, PE#107332 (2010 – Present)

Honors, Awards and Recognitions

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| [7] Dr. Charles L. Burford Teaching & Service Excellence Faculty Award | 2015 |
| [6] Nominated for Dr. Charles L. Burford Faculty Teaching Excellence Award | 2013 |
| [5] Nordberg Fellowship Award for excellence in research achievement, MSU2008 | |
| [4] Nordberg Fellowship Award for excellence in research achievement, MSU2007 | |
| [3] Recognition for academic excellence, Phi Beta Delta, MSU Chapter | 2005 |
| [2] Fulbright Scholarship, U.S. Department of State | 2004 |
| [1] AIDAB Scholarship, Australian Government | 1995 |

Publications

Peer-Reviewed Journal Articles (corresponding author bolded)

- [9] Fadhel Aoudi, **Tewodros Ghebrab**, Parviz Soroushian, Roz-Ud-Din Nassar, “Optimizing the Performance of Multi-Helix Anchor for Temporary Shelters Soils and Foundations,” *Journal of Soils & Foundations*, Elsevier (under review) (2015)
- [8] Fadhel Aoudi, **Tewodros Ghebrab**, Parviz Soroushian, Roz-Ud-Din Nassar, “Reliable and Convenient Multi-Helix Soil Anchor for Deployable Structures,” *Journal of Soils & Foundations*, Elsevier (under review) (2015)
- [7] **Roz-Ud-Din Nassar**, Parviz Soroushian, Tewodros Ghebrab, “Field Investigation of High-Volume Fly Ash Concrete Pavements,” *Journal of Resources, Conservation & Recycling*, Elsevier, Vol. 73, 2013, pp. 78-85. (6/2013)
- [6] **T. Ghebrab** and P. Soroushian, “Mechanical Properties of Cement Mortar: Development of Structure-Property Relationships,” *International Journal of Concrete Structures and Materials*, Vol. 5, No. 1, 2011, pp. 3-10. (6/2011)
- [5] **T. Ghebrab** and P. Soroushian, “Development of Structure-Property Relationships for Concrete,” *Journal of Advanced Concrete Technology (ACT)*, Vol. 9, No. 1, 2011, pp. 5-14. (2/2011)
- [4] **T. Ghebrab** and P. Soroushian, “Mechanical Properties of Hydrated Cement Paste: Development of Structure-Property Relationships,” *International Journal of Concrete Structures and Materials*, Vol. 4, No. 1, 2010, pp. 37-43. (6/2010)
- [3] P. Soroushian, **R.U.D. Nassar**, H. Chowdhury, T. Ghebrab, “Testing Concrete Durability in Sewer Environment,” *Journal Proceedings of the Institution of Civil Engineers - Construction Materials*, Vol. 163, N. 1, 2010, pp. 35-44. (2/2010)
- [2] P. Soroushian, H. Chowdhury, T. Ghebrab, “Evaluation of Water-Repelling Additives for Use in Concrete-Based Sanitary Sewer Infrastructure,” *ASCE Journal of Infrastructure*, Vol. 15, No. 2, pp. 106-110. (6/2009)
- [1] P. Soroushian, O. Simsek, M. Elzafraney, T. Ghebrab, “Compatibility of Cereal Straw with Hydration of Cement,” *Journal of Solid Waste Technology & Management*, Vol. 35, No.1, pp. 1-6. (2/2009)

Peer-Reviewed Conference (corresponding author bolded)

- [2] **A. Nejat**, M. Darwish, T. Ghebrab, “BIM Teaching Strategy for Construction Engineering Students,” *American Society for Engineering Education (ASEE) Annual Conference* (7/2012)
- [1] **M. Darwish**, A. Nejat, T. Ghebrab, “Globalization and the New Challenges for Construction Engineering Education,” *American Society for Engineering Education (ASEE) Annual Conference* (7/2012)