Halil Ceylan, PhD, F.ASCE	
Pitt-Des Moines, Inc. Professor of Civil, Construction and Environmental Engineering (CCEE), Geotechnical and Materials Engineering Group and Intelligent Infrastructure Engineering Program ISU Site Director, PEGASAS - FAA COE on General Aviation Director, Program for Sustainable Pavement Engineering & Research (PROSPER) at Institute for Transportation (InTrans) 410 Town Engineering Bldg. Iowa State University 813 Bissell Road Ames, IA 50011-1066	(515) 294-8051 hceylan@iastate.edu IOWA STATE UNIVERSITY Institute for Transportation

EDUCATION

- PhD, University of Illinois at Urbana-Champaign, Civil Engineering, 2002
- MS, University of Illinois at Urbana-Champaign, Civil Engineering, 1995
- MS, Dokuz Eylul University, Izmir, Turkey, Civil Engineering, 1993
- BS, Dokuz Eylul University, Izmir, Turkey, Civil Engineering, 1989

PROFESSIONAL EXPERIENCE

- Professor, Department of Civil, Construction and Environmental Engineering, Iowa State University, July 2015–present
- Associate Professor, Department of Civil, Construction and Environmental Engineering, Iowa State University, July 2010 – June 2015
- Assistant Professor, Department of Civil, Construction and Environmental Engineering, Iowa State University, 2002–2010

SELECTED RESEARCH PROJECTS

- **Cumulative research funds for 121 research projects is approximately $18.4 million (over $21.3 million project funds including matching funds)**
- Investigators: Ceylan, H., Kim, S., and Mahedi, M. *Iowa Granular Road Structural Design Tool.* Sponsor: IHRB; Duration: 36 months; Total funding: $349,885; Role: PI.
- Investigators: Ceylan, H., Kim, S., Cho, I. H., Takle, E. S., and Rajewski, D. *Have Minnesota's Warmer Winters Increased the Number of Freeze Thaw Cycles? – Phase 1*. Sponsor: MnDOT and LRRB; Duration: September 1, 2020–August 31, 2021; Total funding: $59,984; Role: PI.
- Investigators: Ceylan, H., Cetin, B., and Perez, M. *Field Testing on Use of Concrete Grinding Residue as a Soil Amendment*. Sponsor: IHRB; Duration: December 15, 2018–December 31, 2022; Total funding: $90,240; Role: PI.
- Investigators: Ceylan, H., Rutherford, C., Cetin, B., and White, D. J. *Base Stabilization Additives – Effect on Granular Equivalency (GE)*. Sponsor: MnDOT; Duration: December 16, 2019–January 31,

2023; Total funding: $195,229; Role: PI.

- Investigators: Ceylan, H., Kim, S., Zhang, Y., and Jahren, C. T. *Evaluation of Otta Seal Surfacing for Low-volume Roads in Iowa, Phase II Study: Comprehensive Laboratory Evaluation & Characterization and Full-Scale Field Implementation*. Sponsor: IHRB; Duration: July 1, 2018–June 30, 2023; Total funding: $349,601; Role: PI.
- Investigators: Ceylan, H., Kim, S., Zhang, W., Waid, D., and Moore, B. *Development of a Smartphone-Based Road Performance Data Collection Tool*. Sponsor: IHRB; Duration: June 1, 2019–December 31, 2021; Total funding: $296,901; Role: PI.
- Investigators: Ceylan, H., Buss, A., and Cetin, B. *Determining Pavement Design Criteria for Recycled Aggregate Base and Large Stone Subbase*. Sponsor: National Road Research Alliance (NRRA)-MnDOT; Duration: October 1, 2017–June 30, 2020; Total funding: $225,000; Role: PI.
- Investigators: Ceylan, H., Horton, R., Gopalakrishnan, K., Kim, S., and Cetin, B. *Concrete Grinding Residue: Its Effect on Roadside Vegetation and Soil Properties*. Sponsor: MnDOT; Duration: June 14, 2016–April 30, 2019; Total funding: $154,996; Role: PI.
- Investigators: Ceylan, H., Gopalakrishnan, K., and Kim, S. *Biofuel Co-Product Use for Pavement Geo-Materials Stabilization: Phase II - Extensive Lab Characterization and Field Demonstration*. Sponsor: Iowa DOT; Duration: May 8, 2013–December 31, 2019; Total funding: $247, 967 ($167,967 from IHRB + $80,000 In-kind and Cash Support from Buchanan County Engineer's Office and industrial firms); Role: PI.

SELECTED PUBLICATIONS

- **Total: over 360 peer-reviewed publications and over 350 presentations**
- Xue, Z., Ashlock, J. C., Cetin, B., Wu, Y., Li, C., and Ceylan, H. 2021. Freeze-Thaw Performance of Granular Roads Stabilized with Optimized Gradation and Clay Slurry. *Proc., 4th International Conference on Transportation Geotechnics (ICTG)*, Chicago, IL, May 23–26.
- Satvati, S., Nahvi, A., Cetin, B., Ashlock, J., Jahren, C. T., and Ceylan, H. 2020. Performance-based Economic Analysis to Find the Sustainable Aggregate Option for a Granular Roadway. *Transportation Geotechnics*, Vol. 26.
- Li, Y., Zhang, Y., Ceylan, H., and Kim, S. 2020. In Situ Evaluation of Using Lignosulfonate for Subgrade Stabilization. *Proc., 2020 ASCE Geo-Congress*, Minneapolis, MN, February 25–28.
- Yang, B., Cetin, B., Zhang, Y., Luo, C., Ceylan, H., Horton, R., Kim, S., and Mahedih, M. 2019. Effects of Concrete Grinding Residue (CGR) on Selected Sandy Loam Properties. *Journal of Cleaner Production*, Vol. 240.
- Yang, B., Zhang, Y., Ceylan, H., Kim, S., and Gopalakrishnan, K. 2018. Assessment of Soils Stabilized with Lignin-Based Byproducts. *Transportation Geotechnics*, Vol. 17, Part A, pp. 122–132.

PROFESSIONAL AFFILIATIONS, HONORS, AND SERVICE

- Member of more than 30 national and international committees and organizations, editorial board member for nine international journals, 19 track organizer/chair, presided 49 sessions, 23 other professional activities (including international advisory committees), 24 services to Iowa State University since August 2002.

GRADUATE ADVISORS AND POSTDOCTORAL SPONSORS/ THESIS ADVISOR AND POSTGRADUATE-SCHOLAR SPONSOR

- 61 Graduate Students/Theses advised; Currently, 12 PhD Students and 3 Master's Students advising as Major or Co-Major Professor (as of Fall 2021); 13 Postdoctoral Scholars/Professional Staff supervised

AWARDS, RECOGNITIONS

- American Society of Civil Engineers (ASCE) James Laurie Prize, 2021
- University of Illinois at Urbana-Champaign (UIUC) Civil and Environmental Engineering Alumni Association (CEEAA) Distinguished Alumnus Award, 2021