

TUNCER B. EDIL, P.E., Fellow ASCE

Address: Department of Civil & Environmental Engineering,
University of Wisconsin-Madison
1415 Engineering Drive
Madison, Wisconsin, U.S.A. 53706

Telephone: (608) 262-3225 office Fax: (608) 263-2453
(608) 233-5794 home Cell: (608) 444-0515

Education: Ph.D. (Civil Engineering) Northwestern University, June, 1973
M.S. (Civil Engineering) Robert College, January, 1969
B.S. (Civil Engineering) Robert College, June, 1967

Positions Held:

Chair, Geological Engineering Program, University of Wisconsin-Madison, 2002-2007; 2008-present
Research Director, Recycled Materials Resource Center, University of Wisconsin-Madison, 2007-present
Professor, Departments of Civil & Environmental Engineering, University of Wisconsin-Madison, 1980 to present (also Professor of Geological Engineering, 1992 to present)
Associate Professor, Departments of Civil & Environmental Engineering and Engineering Mechanics, University of Wisconsin-Madison, 1977-80
Assistant Professor, Departments of Civil & Environmental Engineering and Engineering Mechanics, University of Wisconsin-Madison, 1973-77
Occasional Lecturer, Department of Engineering Professional Development, University of Wisconsin-Madison, 1975 to present
Lecturer, Department of Civil Engineering, Northwestern University, 1973
Engineer, Mirza Engineering Company, Chicago, Illinois, 1970
Teaching Assistant, College of Architecture, University of Illinois-Chicago Circle, 1969
Bridge Engineer, The Ministry of Village Affairs, Istanbul, Turkey, 1969
Partner, Mono Engineering Firm, Istanbul, Turkey, 1967-69

Registered Professional Engineer: Registered Professional Engineer in Wisconsin (# E-14606)

Consulting Activities: Served as consultant on geotechnical and geoenvironmental problems to engineering firms and government agencies; major assignments were with:

Warzyn Engineering and Service Co., Inc., Madison, WI
Ashland County Soil-Water Conservation District, Ashland, WI
Wisconsin Department of Transportation, Madison, WI
Wisconsin Department of Natural Resources, Madison, WI
Wisconsin Coastal Zone Management Program, Madison, WI
Southeastern Wisconsin Regional Planning Commission, Waukesha, WI
Bay Lake Regional Planning Commission, Greenbay, WI
Soils and Engineering Services, Inc., Madison, WI
Wisconsin Steel Pipe Manufacturers, Madison, WI
Strand Associates, Inc., Madison, WI
Madison Metropolitan Sewerage District, Madison, WI

United States Park Service, Bayfield, WI
 General Directorate of State Hydraulic Works, Ankara, Turkey
 Mead & Hunt, Inc., Madison, WI
 Geotechnical Engineering Corporation, Roseville, MN
 Call & Nicholas, Inc., Tucson, AZ
 Sitka Corporation, Kirkland, WA
 RMT, Inc., Madison and Milwaukee, WI
 STS Consultants, Ltd., Milwaukee, WI and Northbrook, IL
 Infracon, Inc., Northfield, IL
 Taliesin Preservation Commission, Spring Green, WI
 U.S. Army Corps of Engineers via Earth Tec, Inc., Oak Brook, IL
 Johns Manville International, Inc., Waukegan, IL
 Beacon Ballfields, Inc. Middleton, WI
 Manitowoc Co., Manitowoc, WI
 Montgomery Watson, Madison, WI
 Ayres Associates, Inc., Eau Claire, WI
 Natural Resource Technology, Inc., Pewaukee, WI
 Deep Foundations Institute, Hawthorne, NJ
 Liesch Associates, Inc., Plymouth, MN
 Field Turf Tarkett, Montreal, Canada
 Alvarado & Daring, Panama
 US Environmental Protection Agency, Washington D.C.

Served as academic consultant to:

Bandung Institute of Technology, Indonesia
 Surabaya Institute of Technology, Indonesia
 Istanbul Technical University, Turkey
 Middle East Technical University, Turkey
 Yildiz Technical University, Turkey

Served as expert witness to law firms; major assignments were with:

Hinshaw & Culbertson LLP, Milwaukee, WI, 2006, submarine pipe failure
 DeWitt Ross & Stevens S.C., Madison, WI, 1997, on building settlement
 Petrie & Stocking S.C., Milwaukee, WI, 1997, on soil collapse and settlement
 Rivkin, Radler & Kremer, Chicago, IL, 1996, on riverbank stability
 Bad River Indians Legal Office, Odanah, WI, 1996 on building settlement
 Godfrey, Braun & Hayes, Milwaukee, WI, 1996 on sewer pipe collapse
 Fitzgerald, Schorr, Barmettler & Brennan, P.C., Omaha, NE, 1995, on well sealing
 Foley & Lardner, Attorneys at Law, Madison, WI, 1995, on landfill liner construction
 Jenner & Block, Chicago, IL, 1991, on landfill vertical expansion John Sosey, Attorney
 at Law, Milwaukee, WI, 1993, on coastal slope stability
 Witkin, Weiby, Maki & Durst, Superior, WI, 1985, on seepage cell performance
 Michael, Best & Friedrich, Milwaukee and Madison, WI, 1983 and 1984, on coastal
 slope stabilization; 1984, on earth construction
 Ross & Stevens, Madison, WI, 1984, on sanitary landfill siting; 1991 on peat settlement
 Wickwire, Gavin & Gibbs, Madison, WI, 1981, on clay liner failure; 1989, on excavation
 dewatering; 1996, on breakwater armor stone density
 Phelan, Pope & John, Ltd., Chicago, IL, 1982, on retaining wall collapse
 Geisler & Kay, Madison, WI, 1981, on steel pipe corrosion
 Quarles & Brady, Milwaukee, WI, 1977, on shore erosion

Personal Honors and Awards:

U.S. Universities Council on Geotechnical Education & Research, Distinguished Researcher Award, 2008
 Republic of Turkey, Scientific and Technological Research Council, Special Science Award, 2007
 U.S. Universities Council on Geotechnical Education & Research, Distinguished Service Award, 2007
 Fellow, American Society of Civil Engineers, 2007
 Cited for being on the "A-List" for geosynthetics Education and Research, *Geotechnical Fabrics Report*, v.23, no.8, p.3, 2007
 Industrial Fabrics Association International, International Achievement Award, Geosynthetics Projects, 2003
 American Society of Civil Engineers, Wisconsin Southwest Branch, Outstanding Civil Engineer Award, 1999
 American Society for Testing and Materials, Committee D18 on Soil and Rock, Standard Development Awards, 1992 and 1996;
 Special Service Awards, 1997 and 2001
 University of Wisconsin-Madison, Polygon Engineering Council, Outstanding Instructor Award, 1992
 Republic of France, Stage Haut Niveau (High Level Exchange) Fellowship Award, 1991
 American Society of Civil Engineers, Wisconsin Section, Award of Merit for Individual Achievement as an Engineer in Education, 1988
 American Society for Engineering Education, North-Midwest Section, Dow Outstanding Young Faculty Award, 1980
 American Society of Civil Engineers, Wisconsin Section, Young Civil Engineer of the Year Award, 1977
 W. P. Murphy Scholarship (Northwestern University), 1969-72
 NATO Doctoral Fellowship, 1969-72

Paper Awards

Transportation Research Board, Nomination for Best Paper Award, AFP00 – Geology and Properties of Earth Materials Committee, 2008:
 A. Sawangsurriya, T.B. Edil, and C.H. Benson, "Effect of Suction on the Resilient Modulus of Compacted Fine-Grained Subgrade Soils," *Transportation Research Board*, 2009, Paper 09-3614.
 Global Waste Management Symposium, Second Paper Award, 2008:
 C. Bareither, R. Breitmeyer, S. Erses, C.H. Benson, T.B. Edil, and M. Barlaz, "Relative Contributions of Moisture and Biological Activity on Compression of Municipal Solid Waste in Bioreactor Landfills," *Proceedings*, Global Waste Management Symposium, 2008, Penton Media, Orlando, pp. 1-9.
 Global Waste Management Symposium, Third Paper Award, 2008:
 R. Breitmeyer, C. Bareither, C.H. Benson, T.B. Edil, and M. Barlaz, "Field-Scale Lysimeter Experiment to Study Hydrologic and Mechanical Properties of Municipal Solid Waste," *Proceedings*, Global Waste Management Symposium, 2008, Penton Media, Orlando, pp. 1-11.
 Honorable Mention as one of the Best Papers Published in Geosynthetics International in 2007:
 C. H. Abdullah, and T. B. Edil, "Behavior of Geogrid-Reinforced Load Transfer Platforms for Embankment Supported on Rammed Aggregate Piers," *Geosynthetics International*, 2007, Vol. 14, No. 3, pp. 141-153.

National Association of Government Communicators, Technical Report Category, Blue Pencil Award for Professional Paper 1693, *Formation, Evolution, and Stability of Coastal Cliffs-Status and Trends*, published by the U.S. Geological Survey, 2004

List of best papers published by ASCE-Geotechnical Engineering Division in 2001:

J. Y. Kim, T. B. Edil and J. K. Park, "Volatile Organic Compound (VOC) Transport Through Compacted Clay," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 127, No. 2, 2001, pp. 126-134

American Society of Civil Engineers, Journal of Cold Regions Engineering Award for the Best Paper, 1989:

T. B. Edil, C. J. Roblee and C. A. Wortley, "Design Approach for Piles Subject to Ice Jacking," *Journal on Cold Regions Engineering*, American Society of Civil Engineers, Vol. 2, No. 2, 1988, pp. 65-85

List of best papers published by ASCE-Geotechnical Engineering Division in 1994:

T. B. Edil and Evert J. den Haan, "Settlement of Peats and Organic Soils," *Settlement '94*, Specialty Conference of the American Society of Civil Engineers, Geotechnical Engineering Division, College Station, TX, Vol. 2, 1994, pp. 1543-1572

Project and Team Awards

American Society of Civil Engineers Wisconsin Section, Engineering Achievement Award Honoring the Madison Metropolitan Sewerage District Contaminated Sludge Lagoon Capping (served as Design Engineer and Consultant), 2002

American Society of Civil Engineers Wisconsin Section, Engineering Achievement Award Honoring the Bender Park Waterfront Development (also nominated by the Wisconsin Section for the national Outstanding Civil Engineering Achievement Award) (served as Sub-Consultant for slope modification), 2001

U.S. Army Construction Engineering Research Laboratory, Research Product Development Team Award for Electroosmotic Pulse Technology (served as Academic Team Member), 2000

Civil Engineering Research Foundation, Charles Pankow Innovative Application Award Finalist, Electroosmotic Pulse Technology to control water intrusion in buried concrete structures, (served as Collaborator to the U.S. Army Construction Engineering Research Laboratory, Champaign, IL), 1999

American Society of Civil Engineers, Outstanding Large Section Award for Zone III, (served as President of Wisconsin Section during the award year), 1999

Consulting Engineers Council of Minnesota, Honor Award, Veteran's Memorial Park-Pathways and Amphitheater Project, Richfield, MN, (served as Technical Consultant on this project to Geotechnical Engineering Corporation, Roseville, MN), 1989

Honorary Societies:

Sigma Xi (research)

Chi Epsilon (civil engineering)

Listings:

Who's Who in America, 1996, 2004, 2008

Who's Who in American Education, 2003

Who's Who in the World, 1994

International Man of the Year, 1992-93

Who's Who in Science and Engineering, 1993

Men of Achievement, 1993
 Who's Who in Environmental Registry, 1992
 American Men and Women of Science, 1991
 Who's Who in the Midwest, 1991
 International Leaders in Achievement, 1988
 Biography of the Year, First Presidential Edition, 1986-87
 Five Thousand Personalities of the World, 1986
 The International Directory of Distinguished Leadership, 1986
 Personalities of the Americas, First Commemorative Edition, 1987
 International Who's Who in Engineering, 1983
 Who's Who in Technology Today, 1981

Professional Societies:

American Society of Civil Engineers
 American Society for Testing and Materials
 Transportation Research Board
 International Society of Soil Mechanics and Foundation Engineering
 U.S. Universities Council on Geotechnical Education & Research
 International Association of Foundation Drilling
 International Geosynthetics Society
 American Coal Ash Association

Professional Activities:

Founding Chair, Subcommittee D18.14 on Geotechnics of Sustainable Construction, American Society for Testing and Materials, 2007-present
 Representative of the U.S. National Committee and Core Member of the International Committee TC-3 on Geotechnics of Pavements, International Society of Soil Mechanics and Geotechnical Engineering, 2002-present
 Founding Chair, Geo Institute International Activities Council, American Society of Civil Engineers, 2000-2004 (Member 2005-present)
 Member, Geo Institute Awards Committee, American Society of Civil Engineers, 2005-present
 President, American Society of Civil Engineers - Wisconsin Section Board of Directors, 1997-98 (Director 1990-93; Vice President, 1995-96; President Elect, 1996-97; Past President, 1998-99)
 President, Board of Directors, U.S. Universities Council on Geotechnical Engineering Research, 1993-1994 (Treasurer, 1991-93; Past President, 1994-96)
 Representative of the U.S. National Committee and Core Member of the International Committee TC-15 on Peats and Organic Soils, International Society of Soil Mechanics and Foundation Engineering, 1986-2001
 Member, Geo Institute Task Forces, American Society of Civil Engineers (Task Force on Nomination and Election of Board of Governors, 1996-97; Task Force on Liaison with the U.S. Universities Council on Geotechnical Engineering Research, 1997; Task Force on International Activities Council, 1999)
 Chair, Subcommittee D18.18 on Peats and Organic Soils, American Society for Testing and Materials, 1988-97 (Secretary, 1986-88, Member, 1984-99)
 Member, Committee D-18 on Soil and Rock and Subcommittees D-18.13 on Marine Geotechnics, D18-04 on Hydrologic Properties, and D-18.20 on Impermeable Barriers, American Society for Testing and Materials, 1984-present
 Chair, Publications Committee, Geotechnical Engineering Division, American Society of Civil Engineers, 1984-88 (Member, 1976-90)

Member, Awards Committee, Geotechnical Engineering Division, American Society of Civil Engineers, 1984-88

Member, Embankment Dams and Slopes Committee, Geotechnical Engineering Division, American Society of Civil Engineers, 1976-1990

Member, Committee on Environmental Geotechnics, Geo Institute, American Society of Civil Engineers, 1985-present

Member, Soil Improvement and Geosynthetics Committee, Geo Institute, American Society of Civil Engineers, 1997-present

Member, Committee AFP 30 (former A2L02) on Soil and Rock Properties, Transportation Research Board, 1997-present

President, American Society of Civil Engineers - Madison Branch, 1989-90 (Director, 1983-84)

Chairman, Geotechnical Engineering Technical Committee, American Society of Civil Engineers - Wisconsin Section, 1975-80

Chairman and Member of the Student Affairs Committee, American Society of Civil Engineers - Wisconsin Section (also Faculty Advisor to UW-Madison ASCE Student Chapter), 1974-77

Editorship

Editor-in-Chief, Geotechnical and Geological Engineering, Springer, 2006-present

Editor-in-Chief, Journal of Geotechnical Engineering, American Society of Civil Engineers, 1984-88

Co-Editor (with E. den Haan and R. Termaat), *Advances in Understanding and Modelling the Mechanical Behaviour of Peat*, A. A. Balkema Publishers, Rotterdam, Netherlands, 1994.

Co-Editor (with Patrick J. Fox), *Geotechnics of High Water Content Materials*, American Society of Testing and Materials, ASTM STP 1374, Conshohocken, PA, 2000, 380 p.

Public Service Activities:

Member, Wisconsin Science Advisory Council on Metallic Mining, Wisconsin Department of Natural Resources, 1998-2004.

Member, Wisconsin Highway Research Program, Geotechnical Oversight Committee, Wisconsin Department of Transportation, 1996-present

Member, Wisconsin State Infrastructure Report Card Committee, ASCE Wisconsin Section, 2003

Member, Subgrade Design/Construction Process Review Team, Wisconsin Department of Transportation, 1996-97

Member, Wisconsin Department of Natural Resources Review Committee for NR 500, 1995-1996

Member, Wisconsin Groundwater Research Advisory Council, 1988-present

Advisor, Tailings Lagoon Dike Slope Stability - Bureau of Solid Waste Management, Wisconsin Department of Natural Resources, 1986

Reviewer, Shore Erosion and Landslides Chapters - Time-Saver Standards for Landscape Architecture, 1983

Advisor, Wastewater Lagoon Liner Regulations (Chapters NR 110 and NR 213) - Municipal Wastewater Bureau and Industrial Wastewater Bureau, Wisconsin Department of Natural Resources, 1981-83

Ad Hoc Technical Committee on Coastal Hydrology, Hydraulics, Erosion, and Water Quality - Southeastern Wisconsin Regional Planning Commission, 1978

Wisconsin Coastal Zone Management Development Program - Shore Erosion Technical Advisory Committee - State Office of Energy and Planning, 1974-84

Wisconsin Coastal Management Program – Coastal Hazards Work Group – Department of Administration, 2000-present

Academic Service Activities:

Departmental

In the area of service, Prof. Edil provides leadership in Geological Engineering Program (GLE) and Civil and Environmental Engineering Department (CEE). As GLE Chair, he attends to all matters of this virtual degree-granting department but he also manages the GLE ABET effort, which resulted in renewal of the full accreditation in 2007 for 6 years. In CEE Prof. Edil has been on the Hiring and Search and Screen Committees and represented department in the College of Engineering Diversity and Equity Committee. In the past, Prof. Edil served as Associate Chair of CEE for research and graduate studies.

College (COE) and University Service

1. Member of the COE Operating Committee as GLE Chair
2. Member of the COE Equity and Diversity Committee representing CEE
3. Member of the COE ABET Committee representing GLE
4. Member of the Groundwater Research Advisory Council (UW System)
5. Past Member of the Physical Sciences Divisional Executive Committee (decides tenure cases)

Other Evidence of Service Accomplishments

1. Soils for Non-Soil Engineers, a successful Engineering Professional Development (EPD) continuing education course taught in Madison, Las Vegas, and Sunnyvale, CA, Boston, and Philadelphia to 50-95 attendees in each offering, 2 days
2. Slope Stability and Landslides EPD course, Sunnyvale, CA (conceived and started by Edil in 1980; expanded and offered 30th time), 3 days
3. Foundation Design, Madison, EPD course, 50 attendees, 3 days
4. Soil Mechanics and Geotechnical Engineering, Madison, a new EPD course intended to provide refresher for PE license renewal, 5 days, 30 attendees

Publications

SUSTAINABLE CONSTRUCTION AND ENVIRONMENTAL GEOTECHNICS

Beneficial Reuse of Industrial Byproducts

T. B. Edil and A. E. Erickson, "Procedure and Equipment Factors Affecting Permeability Testing of a Bentonite-Sand Liner Material," *Impermeable Barriers for Soil and Rock*, American Society for Testing and Materials, Special Technical Publication No. 874, 1985, pp. 155-170.

K. D. Vesperman, T. B. Edil and P. M. Berthouex, "Permeability of Fly Ash and Fly Ash/Sand Mixtures," *Impermeable Barriers for Soil and Rock*, American Society for Testing and Materials, Special Technical Publication No. 874, 1985, pp. 289-298.

T. B. Edil, P. M. Berthouex and K. D. Vesperman, "Fly Ash as a Potential Waste Liner," *Proceedings of the Conference on Geotechnical Practice for Waste Disposal*, Geotechnical Special Publication No. 13, American Society of Civil Engineers, Ann Arbor, Michigan, 1987, pp. 447-461.

- T. B. Edil, L. K. Sandstrom and P. M. Berthouex, "Interaction of Inorganic Leachate with Compacted Pozzolan Fly Ash," *Journal of Geotechnical Engineering*, American Society of Civil Engineers, Vol. 118, No. 9, 1992, pp. 1410-1430.
- P. J. Bosscher, T. B. Edil and N. N. Eldin, "Construction and Performance of a Shredded Waste Tire Test Embankment," *Transportation Research Record*, No. 1345, 1992, pp. 44-52.
- T. B. Edil, P.J. Fox and S. W. Ahl, "Hydraulic Conductivity and Compressibility of Waste Tire Chips," *Proceedings of the Fifteenth Annual Madison Waste Conference*, 1992, pp. 49-61.
- J. K. Park, J. Y. Kim and T. B. Edil, "Sorption Capacity of Shredded Waste Tires," *Green '93, A Symposium on Geotechnics Related to the European Environment*, Sarsby (ed.), Balkema, Rotterdam, Netherlands, 1993, pp. 341-348.
- T. B. Edil and P. J. Bosscher, "Engineering Properties of Waste Tire Chips and Soil Mixtures," *Geotechnical Testing Journal*, American Society for Testing and Materials, Vol. 17, No. 4, 1994, pp. 453-464.
- J. K. Park, J. Y. Kim, T. B. Edil, and C. D. Madsen, "Use of Ground Tires for Organic Compound Containment in the Soil-Bentonite (SB) Slurry Cutoff Wall," *IS-Osaka '96, The 2nd International Congress on Environmental Geotechnics*, Osaka, Japan, Vol. 2, 1996, pp. 881-886.
- A. H. Aydilek and T. B. Edil, "Solidification and Stabilization of Hazardous Wastes," *Proceedings of the 6th Turkish National Congress on Soil Mechanics and Foundation Engineering*, 9 Eylul University, Izmir, Turkey, 1996, pp. 442-452.
- P. J. Bosscher, T. B. Edil and S. Kuraoka, "Design of Highway Embankments Using Tirechips," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 123, No. 4, 1997, pp. 295-304.
- J. K. Park, J. Y. Kim, C. D. Madsen and T. B. Edil, "Retardation of Volatile Organic Compound Movement by a Soil-Bentonite Slurry Cutoff Wall Amended with Ground Tire," *Water Environment Research*, Vol. 69, No. 5, 1997, pp. 1022-1031.
- J. Y. Kim, J. K. Park and T. B. Edil, "Sorption of Organic Compounds in the Aqueous Phase onto Tire Rubber," *Journal of Environmental Engineering*, American Society of Civil Engineers, Vol. 123, No. 9, 1997, pp. 827-835.
- N. Tatlisoz, C. H. Benson and T. B. Edil, "Effect of Fines on Mechanical Properties of Soil-Tire Chip Mixtures," *Testing Soil Mixed with Waste or Recycled Materials, ASTM STP 1275*, American Society for Testing and Materials, M. A. Wasemiller and K. B. Hoddinott, Eds., 1997, pp. 93-108.
- N. Tatlisoz, T. B. Edil and C. H. Benson, "Interaction Between Reinforcing Geosynthetics and Soil-Tire Chip Mixtures," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 124, No. 11, 1998, pp. 1109-1119.
- G. Palmer, T. B. Edil and C. H. Benson, "Liners for Waste Containment Constructed with Class F and C Fly Ashes," *Journal of Hazardous Materials*, 2000, Vol. 18, Nos. 2-3, pp. 133-161.
- J. R. Kleven, T. B. Edil, C.H. Benson, "Evaluation of Excess Foundry System Sands for Use as Subbase Material," *Transportation Research Record*, No. 1714, National Research Council, Washington D. C., 2000, pp. 40-48.

T. Abichou, C. H. Benson and T. B. Edil, "Foundry Green Sands as Hydraulic Barriers: Laboratory Study," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 126, No. 12, 2000, pp. 1174-1183.

M. Goodhue, T. B. Edil and C. H. Benson, "Interaction Between Reinforcing Geosynthetics and Foundry Sands," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 127, No. 4, 2001, pp. 353-362.

T. B. Edil, "Mechanical Properties and Mass Behavior of Shredded Tire-Soil Mixtures," *Proceedings of the International Workshop on Lightweight Geo-Materials (IW-LGM2002)*, Tokyo, Japan, 2002, pp. 17-32. (Invited Lecture).

T. Abichou, C. H. Benson and T. B. Edil, "Foundry Green Sands as Hydraulic Barriers: Field Study," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 128, No. 3, 2002, pp. 206-215.

A. Senol, M. S. Bin-Shafique, T. B. Edil and C. H. Benson, "Use of Class C Fly Ash for Stabilization of Soft Subgrade," *ARI The Bulletin of the Istanbul Technical University*, Vol: 53, pp. 89-95, Istanbul Technical University, Istanbul, Turkey (also *ACE 2002*, The 5th International Congress on Advances in Civil Engineering, Vol. 2, Istanbul, Turkey, 2002, pp. 963-972).

T. B. Edil and C. H. Benson, "Use of Industrial By-Products as Geo-Materials," *Geo-Strata*, Geo Institute, American Society of Civil Engineers, April Issue, 2002, pp. 28-29.

J. K. Park, J. Y. Kim, T. B. Edil, M. Huh, S. H. Lee and Lee, J. J. "Suitability of Shredded Tires as a Substitute for a Landfill Leachate Collection Medium," *Waste Management and Research*, 2003, 21(3), pp. 278-289.

T. Abichou, T. B. Edil, C. H. Benson and M. Berilgen "Mass Behavior of Soil-Tire Chip Backfill," *Beneficial Use of Recycled Materials in Transportation Applications*, Air and Waste Management Association, Sewickley, Pennsylvania, 2003, pp. 689-698.

A. Senol, T. B. Edil, H. A. Acosta, M. S. Bin-Shafique and C. H. Benson, "Soil Stabilization Using Various Fly Ashes," *Proceedings of the Thirteenth European Conference on Soil Mechanics and Geotechnical Engineering*, Prague, Czech Republic, 2003, Vol. 1, pp. 235-240.

Dingrando, J., Edil, T., and Benson, C., Beneficial Reuse of Foundry Sands in Controlled Low Strength Material, *J. of ASTM International*, 2004, Vol 1, No. 6, Paper ID: JA111869, 16 p.

T. B. Edil, J. K. Park and J. Y. Kim, "Effectiveness of Scrap Tire Chips as Sorptive Drainage Material," *Journal of Environmental Engineering*, American Society of Civil Engineers, 2004, Vol. 130, No. 7, pp. 824-831.

T. Abichou, T. B. Edil, and C. H. Benson, "Beneficial Use of Foundry By-Products in Highway Construction," *Geotechnical Engineering for Transportation Projects*, American Society of Civil Engineers, Geotechnical Special Publication 126, M. K. Yegian and and E. Kavazanjian, eds., 2004, Vol. 1, pp. 715-722.

M. S. Bin-Shafique, A. Senol, T. B. Edil and C. H. Benson, "Incorporating Fly Ash Stabilized Subbase into Pavement Design-Case Study," *Geotechnical Engineering*, Institute of Civil Engineers, United Kingdom, 2004, Vol. 157, No. GE4, pp. 239-249.

T. Abichou, K. Tawfiq, T. B. Edil and C. H. Benson, "Behavior of a Soil-Tire Chip Backfill for Modular Block-Wall," *Recycled Materials in Geotechnics*, American Society of Civil Engineers, GSP 127, A. H. Aydilek and J. Wartman, eds., ASCE Baltimore, 2004, pp. 162-172.

T. Abichou, T. B. Edil and C. H. Benson "Foundry Sand as Hydraulic Barrier," *Recycled Materials in Geotechnics*, American Society of Civil Engineers, GSP 127, A. H. Aydilek and J. Wartman, eds., ASCE Baltimore, 2004, pp. 186-200.

A. D. Trzebiatowski, T. B. Edil, and C. H. Benson, "Case Study of Subgrade Stabilization Using Fly Ash: State Highway 32, Port Washington, Wisconsin," *Recycled Materials in Geotechnics*, American Society of Civil Engineers, GSP 127, A. H. Aydilek and J. Wartman, eds., ASCE Baltimore, 2004 pp. 123-136.

T. B. Edil, "A Review of Mechanical and Chemical Properties of Shredded Tires and Soil Mixtures," *Recycled Materials in Geotechnics*, American Society of Civil Engineers, GSP 127, A. H. Aydilek and J. Wartman, eds., ASCE Baltimore, 2004, pp. 1-21.

A. Senol and T. B. Edil, "Evaluation of CBR Data from Soft Subgrade Stabilized by Fly Ash," *Proceedings of the 10th Turkish National Congress on Soil Mechanics and Foundation Engineering*, Istanbul Technical University, Istanbul, Turkey, 2004, pp. 275-280.

A. Senol, T. B. Edil and M. S. Bin-Shafique, "Laboratory Evaluation of Stabilization of Soft Subgrades by Class C Fly Ash," *Proceedings of the 15th Southeastern Asian Geotechnical Engineering Conference*, Bangkok, Thailand, S. Sambhandharaksa, D. T. Bergado, T. Boonyatee, eds., 2004, Vol 1, pp. 593-596.

B. F. Tanyu, C. H. Benson, T. B. Edil and W. H. Kim, "Equivalency of Crushed Rock and Three Industrial By-Products Used for Working Platforms During Pavement Construction," *Transportation Research Record*, No. 1874, Paper No. 04-3105, National Research Council, Washington D. C., 2004, pp. 59-69.

B. F. Tanyu, W. H. Kim, T. B. Edil and C. H. Benson, "Development of Methodology to Include Structural Contribution of Alternative Working Platforms in Pavement Structure," *Transportation Research Record*, No. 1936, Paper No. 05-1395, National Research Council, Washington D. C., 2005, pp. 70-77.

M. S. Bin-Shafique, C. H. Benson, T. B. Edil and K. Hwang, "Leachate Concentrations from Water Leach and Column Leach Tests on Fly-Ash Stabilized Soil," *Environmental Engineering Science*, 2006, 23(1), pp. 51-65.

T. B. Edil, H. A. Acosta, and C. H. Benson, "Stabilizing Soft Fine-Grained Soils with Fly Ash," *Journal of Materials in Civil Engineering*, American Society of Civil Engineers, Vol. 18, No. 2, 2006, pp. 283-294.

A. Şenol, T. B. Edil, M.S. Bin-Shafique, H. A. Acosta, and C. H. Benson, "Soft Subgrades' Stabilization by Using Various Fly Ashes" *Resources, Conservation & Recycling*, 2006, Thomas Telford, UK, Vol: 46, Issue 4, pp. 365-376.

L. Li, C. H. Benson, T. B. Edil, and B. Hatipoglu, "WiscLEACH: A Model for Predicting Ground Water Impacts from Fly-Ash Stabilized Layers in Roadways", *GeoCongress 2006*, ASCE, CD-ROM.

T. B. Edil, "Green Highways: Strategy for Recycling Materials for Sustainable Construction Practices," *Proceedings of the Seventh International Congress on Advances in Civil Engineering*, 2006, Yildiz Technical University, Istanbul, Turkey, CD-ROM

L. Li, C. H. Benson, T. B. Edil, and B. Hatipoglu, "Groundwater Impacts from Coal Ash in Highways," *Waste and Resource Management*, Institute of Civil Engineers, United Kingdom, 2007, Vol. 159, No. WR4, pp. 151-163.

A. C. Carpenter, K.H. Gardner, J. Fopiano, C.H. Benson, T.B. Edil, "Life Cycle Based Risk Assessment of Recycled Materials in Roadway Construction," *Waste Management*, No. 27 2007, pp. 1458–1464

L. Li, C. H. Benson, T. B. Edil and B. Hatipoglu, "Evaluation of Recycled Asphalt Pavement Material Stabilized with Fly Ash," *GeoDenver2007*, American Society of Civil Engineers, CD-ROM.

Haifang Wen, J. Baugh and T. B. Edil, "Use of Cementitious High Carbon Fly Ash to Stabilize Recycled Pavement Materials as a Pavement Base Material," *Proc. 86th Annual Meeting*, Paper No. 07-2051, National Research Council, Washington D. C., 2007, CD-ROM. CD-ROM

H. Wen and T. B. Edil, "Laboratory Study of Recycled Asphalt Pavement Materials as Base Course," *Proc. of 5th International Conference on Maintenance and Rehabilitation of Pavements and Technological Control*, 2007, Park City, UT, pp. 457-462.

T. B. Edil, "A Review of Environmental Impacts and Environmental Applications of Shredded Scrap Tires," *Scrap Tire Derived Geomaterials-Opportunities and Challenges*, IW-TDGM 2007, Hazarika & Yasuhara (Eds), Taylor & Francis Group, London, UK, 2008, pp. 3-18. (**Invited Keynote Lecture**)

Haifang Wen, J. Warner and T. B. Edil, "Laboratory Comparison of Crushed Aggregate and Recycled Pavement Material with and without High Carbon Fly Ash," *Proc. 87th Annual Meeting*, Paper No. 08-3075, National Research Council, Washington D. C., 2008, CD-ROM.

A. H. Aydilek and T. B. Edil, "Solidification/Stabilization of PCB-Contaminated Wastewater Treatment Sludges," *GeoCongress 2008*, New Orleans, LA, American Society of Civil Engineers, CD-ROM.

L. Li, C. H. Benson, T. B. Edil and B. Hatipoglu, "Sustainable Construction Case History: Fly Ash Stabilization of Recycled Asphalt Pavement Material," *Geotechnical and Geological Engineering*, 2008, Vol. 26, No. 2, pp. 177-188.

B. Hatipoglu, T. B. Edil and C. H. Benson, "Evaluation of Base Prepared from Road Surface Gravel Stabilized with Fly Ash," *GeoCongress 2008*, New Orleans, LA, American Society of Civil Engineers, CD-ROM.

Haifang Wen, J. Baugh and T. B. Edil, "Use of Cementitious High Carbon Fly Ash to Stabilize Recycled Pavement Materials as a Pavement Base Material," *Proc. 86th Annual Meeting*, Paper No. 07-2051, National Research Council, Washington D. C., 2007, CD-ROM. CD-ROM

F. Camargo, H. Wen, T. B. Edil, and Y. H. Son, "Laboratory Evaluation of Sustainable Materials at MNROD," *Proc. 88th Annual Meeting*, Paper 09-3160, National Research Council, Washington D. C., 2009, CD-ROM.

F. Camargo, H. Wen, T. B. Edil, and Y. H. Son, "Laboratory Evaluation of Sustainable Materials at MNROD," *Proc. 88th Annual Meeting*, Paper 09-3160, National Research Council, Washington D. C., 2009, CD-ROM.

F. Camargo, T. B. Edil, and C. H. Benson, "Strength and Stiffness of Recycled Base Materials Blended with Fly Ash," *Proc. 88th Annual Meeting*, Paper 09-1971, National Research Council, Washington D. C., 2009, CD-ROM.

C. H. Benson, S. Bin-Shafique and T. B. Edil, "Leaching of Trace Elements from Soils Stabilized with Coal Fly Ash," *Proc. An International Perspective on Environmental and Water Resources*, American Society of Civil Engineers, 2007, New Delhi, India.

Waste Containment – Liners

T. B. Edil and P. P. Didier, "Sealing of Lagoons and Ponds: Proposed Quality Requirements for Soil Liners," *Proceedings of the Fourth Madison Waste Conference*, Madison, Wisconsin, 1981, pp. 412-416.

T. B. Edil, "Appropriate Waste Containment Technology for Developing Countries," *Appropriate Waste Management for Developing Countries (Proceedings of the First International Symposium on Environmental Technology for Developing Countries, Istanbul, Turkey)*, 1985, Plenum Press, New York, pp. 619-631.

T. B. Edil and P. M. Berthouex, "Earthen Liners for Waste Containment," *Proceedings of the International Symposium on Environmental Management for Developing Countries, Envitek A. S., Istanbul, Turkey, Vol. I*, pp. 309-319.

Y. B. Acar, T. B. Edil and H. Laique, "Barrier Systems in Solid Waste Disposal," *Proceedings of the Third International Symposium on Environmental Management for Developing Countries, Istanbul, Turkey, 1986*, pp. 1-44.

M. Richardson, Y. B. Acar and T. B. Edil, "Geotechnical Aspects of Landfill Lining Regulations and Hazardous Waste Regulations in the U.S.A.," *Proceedings of the Second International Symposium on Environmental Geotechnology, Shanghai, PRC, 1989*, pp. 349-365.

T. B. Edil and P. M. Berthouex, "Earthen Barriers Technology for Waste Containment," *Waste Management*, Vol. 10, 1990, pp. 147-153.

T. B. Edil, "Contaminant Containment Systems in Solid Waste Landfills," *Proceedings of the 13th National Congress of Turkish Society of Civil Engineers, Ankara, 1995*, pp. 585-624 (invited lecture).

G. J. Foose, C. H. Benson and T. B. Edil, "Evaluating the Effectiveness of Landfill Liners," *IS-Osaka '96, The 2nd International Congress on Environmental Geotechnics, Osaka, Japan, Vol. 1, 1996*, pp. 217-221.

J. K. Park, J. Y. Kim and T. B. Edil, "Mitigation of Organic Compound Movement in Landfills by a Layer of Shredded Tires," *Water Environment Research.*, Vol. 68, No. 1, 1996, pp. 4-10.

J. Y. Kim, J. K. Park, J. K. Jhung and T. B. Edil, "Sorption Capacity of Ground Tires for Vapor Phase Volatile Organic Compounds," *Volatile Organic Compounds in the Environment, ASTM STP 1261*, W. Wang, J. Schnoor, and J. Doi, Eds., 1996, pp. 237-244.

J. Y. Kim, T. B. Edil and J. K. Park, "Effective Porosity and Seepage Velocity in Compacted Clay Column Tests," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 123, No. 12, 1997, pp. 1135-1142.

G. J. Foose, C. Tachavises, C. H. Benson and T. B. Edil, "Analyzing Geoenvironmental Engineering Problems Using MODFLOW," *Modflow '98*, Colorado School of Mines, Golden, Colorado, 1998, Vol. I, pp. 81-88 (also in *Naresuan University Journal*, Phitsanulok, Thailand, Vol. 6, No. 2, 1998, pp. 38-44.

T. Katsumi, A., H. Y. Jo, C. H. Benson, and T. B. Edil, "Hydraulic Conductivity Performance of Geosynthetic Clay Liner (GCL) Permeated with Inorganic Chemical Solutions," *Geosynthetics Engineering Journal*, Vol. 14, No. 12, 1999, pp.360-369 (in Japanese).

G. J. Foose, C. H. Benson and T. B. Edil, "Equivalency of Composite Geosynthetic Clay Liners as a Barrier to Volatile Organic Compounds," *Geosynthetics 99*, International Fabrics Association, 1999, pp. 321-334.

T. Katsumi, C. H. Benson, H. Y. Jo, and T. B. Edil, "Hydraulic Conductivity of GCL Permeated with Chemical Solutions," *Proceedings of the 54th Annual Conference of the Japan Society of Civil Engineers*, 1999, Tokyo, Japan.

C. D. Shackelford, C. H. Benson, T. Katsumi and T. B. Edil, "Evaluating the Hydraulic Conductivity of GCLs Permeated with Non-Standard Liquids," *Geotextiles and Geomembranes*, Vol. 18, Nos. 2-3, 2000, pp. 133-161.

S. M. Vasco, H. Y. Jo, C. H. Benson, T. B. Edil and T. Katsumi, "Hydraulic Conductivity of Partially Prehydrated Geosynthetic Clay Liners Permeated with Aqueous Calcium Chloride Solutions," *Geosynthetics 2001*, Industrial Fabrics Association International, Portland, Oregon, 2001, pp.685-699.

G. J. Foose, C. H. Benson and T. B. Edil, "Predicting Leakage Through Composite Landfill Liners," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 127, No. 6, 2001, pp. 510-520.

H. Y. Jo, T. Katsumi, C. H. Benson, and T. B. Edil, "Hydraulic Conductivity and Swelling of Non-prehydrated GCLs Permeated with Single Species Salt Solutions," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 127, No. 7, 2001, pp. 557-568.

G. J. Foose, C. H. Benson and T. B. Edil, "Comparison of Solute Transport in Three Composite Liners," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 128, No. 5, 2002, pp. 391-403.

G. J. Foose, C. H. Benson and T. B. Edil, "Analytical Methods for Predicting Concentration and Mass Flux from Composite Liners," *Geosynthetics International*, International Geosynthetics Society, Vol. 8, No. 6, 2002, pp. 551-575.

T. Katsumi, A. Ogawa, S. Numata, C. H. Benson, D. C. Kolstad, H. Y. Jo, T. B. Edil and R. Fukagawa, "Geosynthetic Clay Liners Against Inorganic Chemical Solutions," *Proceedings of*

the 2nd Japan-Korea Joint Seminar on Geoenvironmental Engineering, Kyoto University, Japan, 2002.

D. C. Kolstad, C. H. Benson, T. B. Edil and H. Y. Jo, "Hydraulic Conductivity of a Dense Prehydrated GCL Permeated with Aggressive Inorganic Solutions," *Geosynthetics International*, International Geosynthetics Society, 2004, Vol. 11, No. 3, pp. 233-241.

D. C. Kolstad, C. H. Benson, and T. B. Edil, "Hydraulic Conductivity and Swell of Non-Prehydrated GCLs Permeated with Multi-Species Inorganic Solutions," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, 2004, Vol. 130, No. 12, pp. 1236-1249.

H. Y. Jo, C. H. Benson, H. C., and T. B. Edil, "Long-Term Hydraulic Conductivity and Cation Exchange of a Geosynthetic Clay Liner (GCL) Permeated with Inorganic Salt Solutions." *Proceedings of the 2004 Annual Conference*, Korean Society of Soil and Groundwater Environment, Jeonju, Korea, 2004, pp. 59-62.

H. Y. Jo, C. H. Benson, H. C., and T. B. Edil, "Hydraulic Conductivity and Cation Exchange in Non-Prehydrated and Prehydrated Bentonite Permeated with Weak Inorganic Salt Solutions," *Clays and Clay Minerals*, Vol. 52, No. 6, 2004, pp. 661-679.

H. Y. Jo, C. H. Benson, C. D. Shackelford, J. M. Lee and T. B. Edil, "Long-Term Hydraulic Conductivity of a Geosynthetic Clay Liner (GCL) Permeated with Inorganic Salt Solutions," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 131, No. 4, 2005, pp. 405-417.

J. M. Lee, C. D. Shackelford, C.H. Benson, H. Y. Jo and T. B. Edil, "Correlating Index Properties and Hydraulic Conductivity of Geosynthetic Clay Liners," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, 2005, Vol. 131, No. 11, pp. 1319-1329.

H. Y. Jo, C. H. Benson, H. C., and T. B. Edil, "Rate-Limited Cation Exchange in Thin Bentonitic Barrier Layers," *Canadian Geotech. Journal*, No. 43, 2006, pp. 370-391.

Transport of Volatile Organic Compounds

J. K. Park, T. B. Edil and P. M. Berthouex, "Effects of Effective Porosity and Organic Carbon Content on Movement of VOCs in a Clay Liner," *Proceedings of the Thirteenth Madison Waste Conference*, Madison, WI, 1990, pp. 438-451.

J. K. Park, T. B. Edil and P. M. Berthouex, "Transport of Volatile Organic Compounds (VOCs) Through a Clay Liner," Summary *Proceedings of the National Conference on Environmental Engineering*, American Society of Civil Engineers, Las Vegas, Nevada, 1991, pp. 6-11.

T. B. Edil, P. M. Berthouex, J. K. Park, D. L. Hargett, L. K. Sandstrom and S. Zelmanowitz, "Effects of Volatile Organic Compounds on Clay Landfill Liner Performance," *Waste Management and Research*, No. 9, 1991, pp. 171-187.

T. B. Edil, J. K. Park and P. M. Berthouex, "Attenuation and Transport of Volatile Organic Compounds in Clay Liners," *Proceedings of the Mediterranean Conference on Environmental Geotechnology*, Cesme, Turkey, 1992, pp. 77-86.

T. B. Edil, J. K. Park, and D. P. Heim, "Large-Size Test for Transport of Organics Through Clay Liners," *Hydraulic Conductivity and Waste Contaminant Transport in Soils, ASTM STP 1142*, Daniel and Trautwein (eds.), American Society for Testing and Materials, Philadelphia, 1993, pp. 353-374.

T. B. Edil, W. S. Wambold and J. K. Park, "Partitioning of VOCs in Clay Liner Materials," *Geoenvironment 2000*, Specialty Conference of the American Society of Civil Engineers, Geotechnical Engineering Division, New Orleans, LA, Vol. 1, 1995, pp. 775-790.

T. B. Edil, J. Y. Kim and J. K. Park, "Reactive Barriers for Containment of Organic Compounds," *Proceedings of the 3rd International Symposium on Environmental Geotechnology*, San Diego, California, 1996, pp. 523 - 532.

J. Y. Kim, T. B. Edil and J. K. Park, "Volatile Organic Compound (VOC) Transport Through Compacted Clay," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, Vol. 127, No. 2, 2001, pp. 126-134 **(included in the list of top 10 papers published by ASCE-GED in 2001)**.

T. B. Edil, "Chemical Transport Issues in Modern Landfill Liners," *Geotechnical Materials: Measurement and Analysis, Proceedings of Raymond J. Krizek Commemorative Symposium*, Northwestern University, Evanston, Illinois, 2002, pp.154-166.

T. B. Edil, "Quantification of Diffusion Across Composite Liners," *Proceedings of the 2nd Intercontinental Landfill Research Symposium*, Asheville, North Carolina, 2002 (invited lecture).

T. B. Edil, "A Review of Aqueous Phase VOC Transport in Modern Landfill Liners," *Waste Management*, No. 23, 2003, pp. 561-571.

T. B. Edil, "Is Aqueous-Phase VOC Transport from Modern Landfills a Potential Environmental Problem?," *Proc. XI International Waste Management and Landfill Symposium*, Cagliari, Sardinia, Italy **(Panel Presentation)**.

Ground Water – Well Sealing

T. B. Edil and A.S.H. Muhanna, "Characteristics of a Bentonite Slurry as a Sealant," *Geotechnical Testing Journal*, American Society for Testing and Materials, Vol. 15, No. 1, 1992, pp. 3-13.

T. B. Edil, M. K. Chang, L. T. Lan and T. V. Riewe, "Sealing Characteristic of Selected Grouts for Water Wells," *Ground Water*, Vol. 30, 1992, pp. 351-361.

T. B. Edil, "Sealing of Boreholes and Wells to Protect Groundwater," *Environment et Géotechnique*, An International Conference on the Environment and Geotechnics, Paris, France, 1993, pp. 185-192.

N. Yesiller, T. B. Edil and C. H. Benson, "Ultrasonic Method for Evaluation of Annular Seals for Wells and Instrument Holes," *Geotechnical Testing Journal*, American Society for Testing and Materials, Vol. 20, No. 1, 1997, pp. 17-28.

Yesiller, N., C. H. Benson, T. B. Edil and J.S. Klima, "Assessment of Cased-Borehole Seals Using an Ultrasonic Method," *Proceedings of GLGGC'97*, The 5th Great Lakes Geotechnical/Geoenvironmental Conference, Ann Arbor, MI, 1997, pp. 133-152.

N. Yesiller, C. H. Benson and , T. B. Edil, "Field Evaluation of Ultrasonic Method for Assessing Well Seals," *Ground Water Monitoring & Remediation*, Summer 1997, pp. 169-176.

O. O. Pekarun, C. H. Benson and T. B. Edil, "Significance of Defects in Annular Well Seals," *Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management*, American Society of Civil Engineers, Vol. 2, No. 2, 1997, pp. 65-71.

M. C. Christman, T. B. Edil and C.H. Benson, "Characterization of Well Seals Using an Ultrasonic Method," *Proceedings of the Symposium on the Application of Geophysics to Engineering and Environmental Problems*, Environmental and Engineering Geophysical Society, Oakland, California, 1999, pp. 879-888.

S. A. Gibson, C.H. Benson and T. B. Edil, "Assessing Exploratory Borehole Seals with Electrical Geophysical Techniques," *Proceedings of the Symposium on the Application of Geophysics to Engineering and Environmental Problems*, Environmental and Engineering Geophysical Society, Oakland, California, 1999, pp. 869-878.

M. C. Christman, C. H. Benson, and T. B. Edil, "Geophysical Study of Annular Well Seals," *Ground Water Monitoring and Remediation*, Vol. 2, No. 3, 2002, pp.104-112.

GEO-MATERIALS

Physico-chemical Behavior, Microstructure & Properties of Soils

T. B. Edil and R. J. Krizek, "Effects of Lattice Disorder on the Quantitative Determination of Kaolinite by X-Ray Diffraction," *Proceedings of the International Clay Conference*, Section VII, Madrid Spain, 1972, pp. 827-835.

R. J. Krizek and T. B. Edil, "Experimental Study of Clay Deformability in Terms of Initial Fabric and Soil-Water Potential," *Rheologica Acta*, No. 13, 1974, pp. 803-813.

R. J. Krizek, T. B. Edil and K. I. Ozaydin, "Preparation and Identification of Clay Samples with Controlled Fabric," *Engineering Geology*, No. 9, 1975, pp. 13-38.

T. B. Edil and R. J. Krizek, "A Micromechanistic Formulation of Clay Stress-Strain Response," *International Journal of Engineering Science*, Vol. 13, Nos. 9-10, 1975, pp. 831-840.

T. B. Edil and R. J. Krizek, "Quantitative Dependence of Strength on Particle Orientation of Clay," *Bulletin of the International Association of Engineering Geology*, No. 11, 1975, pp. 19-22.

T. B. Edil, R. J. Krizek and J. Zelasko, "Effect of Grain Characteristics on Packing of Sands," *Proceedings of the Istanbul Conference on Soil Mechanics and Foundation Engineering*, Istanbul, Turkey, Vol. I, pp. 46-54.

J. Zelasko, R. J. Krizek and T. B. Edil, "Shear Behavior of Sands as a Function of Grain Characteristics," *Proceedings of the Istanbul Conference on Soil Mechanics and Foundation Engineering*, Istanbul, Turkey, Vol. I, 1975, pp. 55-64.

T. B. Edil and R. J. Krizek, "Influence of Fabric and Soil Suction on the Mechanical Behavior of a Kaolinite Clay," *Geoderma*, Vol. 15, 1976, pp. 323-341.

R. J. Krizek, K. S. Chawla and T. B. Edil, "Directional Creep Response of Anisotropic Clays," *Geotechnique*, Vol. 27, No. 1, 1977, pp. 37-57.

T. B. Edil and R. J. Krizek, "Preparation of Isotropically Consolidated Clay Samples with Random Fabric," *Journal of Testing and Evaluation*, American Society for Testing and Materials, Vol. 5, No. 5, 1977, pp. 406-412.

T. B. Edil, D. M. Mickelson and L. J. Acomb, "Relationship of Geotechnical Properties to Glacial Statigraphic Units Along Wisconsin's Lake Michigan Shoreline," *Proceedings of the 30th Canadian Geotechnical Conference*, Saskatoon, Saskatchewan, Session II, 1977, pp. 36-54.

T. B. Edil and D. M. Mickelson, "Wisconsin Glacial Tills," *Tsucchi-to-Kiso*, The Japanese Society of Soil Mechanics and Foundation Engineering, Ser. No. 249, Vol. 26, No. 11, 1978, pp. 26-29.

D. M. Mickelson, L. J. Acomb and T. B. Edil, "The Origin of Preconsolidated and Normally Consolidated Tills in Eastern Wisconsin, U.S.A.," *Moraines and Varves (Proceedings of the International Union for Quarternary Research Symposium, Zurich, Switzerland)*, 1979, A. A. Balkema, Rotterdam, pp. 179-187.

T. B. Edil and G. F. Luh, "Dynamic Modulus and Damping Relationships for Sands," *Proceedings of the Geotechnical Engineering Specialty Conference on Earthquake Engineering and Soil Dynamics*, American Society of Civil Engineers, Pasadena, California, Vol. I, 1978, pp. 394-409.

T. B. Edil, "Dynamic Properties of Sand Soils," *Bulletin of the Earthquake Research Institute of Turkey*, Vol. 6, No. 24, 1979, pp. 1-12.

T. B. Edil and G. W. Luh, "Microstructural Effects on Dynamic Response of Clays," *Proceedings of the Seventh World Conference on Earthquake Engineering*, Istanbul, Turkey, Vol. 3, 1980, pp. 133-140.

T. B. Edil and F. X. Toha, "A Test for Poro-Elastic Properties of Sediments," *Proceedings of the Eleventh International Conference on Soil Mechanics and Foundation Engineering*, San Francisco, California, Vol. 2, 1985, pp. 1007-1010.

F. X. Toha and T. B. Edil, "On the Drained and Undrained Analyses of Poro-Elastic Media," *Proceedings of the Eleventh International Conference on Soil Mechanics and Foundation Engineering*, San Francisco, California, Vol. 1, 1985, pp. 681-685.

T. B. Edil and F. X. Toha, "Measurement of Poro-Elastic Properties of Marine Soils," *Laboratory and In Situ Strength Testing of Marine Soils*, American Society for Testing and Materials, Special Technical Publication No. 883, 1985, pp. 397-411.

T. B. Edil, "Soil Fabric," *Encyclopedia of Earth Science Series*, Vol. XIV-*Field & General Geology*, (Series Editor: R. W. Fairbridge, Volume Editor C. W. Finkl, Jr.), 1988, pp. 778-788.

P.L.M. Veneman and T. B. Edil, "Morphological Aspects of the Vane Shear Test," *Laboratory and Field Vane Shear Strength Testing*, American Society for Testing and Materials, Special Technical Publication 1014, 1988, pp. 182-190.

T. B. Edil and D. M. Mickelson, "Overconsolidated Glacial Tills in Eastern Wisconsin," *Transportation Research Record*, No. 1479, Washington, D.C., 1995, pp. 99-106.

T. Abichou, C. H. Benson and T. B. Edil, "Micro-structure and Hydraulic Conductivity of Simulated Sand-Bentonite Mixtures, *Clays and Clay Minerals*, Clay Minerals Society, 2002, Vol. 50, No. 5, pp. 537-545.

T. Abichou, C. H. Benson and T. B. Edil, "Network Model for Hydraulic Conductivity of Sand-Bentonite Mixtures," *Canadian Geotechnical Journal*, 2004, Vol. 11, pp. 698-712.

A. Sawangsuriya, D. Fratta, P. J. Bosscher and Edil, T. B., "S-wave Velocity-Stress Power Relationship: Packing and Contact Behavior of Sand Specimens," *GeoDenver2007*, American Society of Civil Engineers, CD-ROM.

C. A. Bareither, C. H. Benson and T. B. Edil, "Reproducibility of Direct Shear Tests Conducted on Granular Backfill Materials, *Geotechnical Testing Journal*, ASTM, 2008, Vol. 31, No. 1, pp. 1-11.

C. A. Bareither, T. B. Edil, C. H. Benson and D. M. Mickelson "Geological and Physical Factors Affecting the Friction Angle of Compacted Sands," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, 2008, Vol. 34, No. 10, pp. 1476-1489.

C. A. Bareither, C. H. Benson and T. B. Edil, "Comparison of Shear Strength of Granular Backfill Materials Measured in Small-Scale and Large-Scale Direct Shear Tests," *Canadian Geotechnical Journal*, 2007, Vol. 45, pp. 1224-1236.

Unsaturated Soils

T. B. Edil and S. E. Motan, "Soil-Water Potential and Resilient Behavior of Subgrade Soils," *Transportation Research Record*, No. 705, 1979, pp. 54-63.

T. B. Edil, S. E. Motan and F. X. Toha, "Mechanical Behavior and Testing Methods of Unsaturated Soils," *Laboratory Shear Strength of Soil*, American Society for Testing and Materials, Special Technical Publication No. 740, 1981, pp. 114-124.

S. E. Motan and T. B. Edil, "Repetitive Load Behavior of Unsaturated Soils," *Transportation Research Record*, No. 872, 1982, pp. 41-48.

T. B. Edil and S. E. Motan, "Laboratory Evaluation of Soil Suction Components," *Geotechnical Testing Journal*, American Society for Testing and Materials, Vol. 7, No. 4, 1984, pp. 173-181.

A. Sawangsuriya, T. B. Edil, P. J. Bosscher, and X. Wang, "Small-Strain Stiffness Behavior of Unsaturated Compacted Subgrade," *Unsaturated Soils 2006*, Geotechnical Special Publication GSP No. 147, Vol. 1, ASCE, Carefree, Arizona, pp. 1121-1132.

A. Sawangsuriya, T. B. Edil, P. J. Bosscher, "Stiffness Behavior of an Unsaturated Pavement Subgrade Soil, *Proceedings of International Conference on Problematic Soils*, 2005, Famagusta, N. Cyprus, pp. 209-217.

A. Sawangsuriya, T. B. Edil, C. H. Benson and X. Wang, "A simple setup for inducing matric suction," *Proc of the Third Asian Conference on Unsaturated Soils*, 2007, Nanjing, China, pp. 499-504.

A. Sawangsuriya, T. B. Edil and C. H. Benson, "Measurement of Resilient Modulus of Unsaturated Subgrade Soil," *International Conference on Advanced Characterization of Pavement and Soil Engineering Materials (Athens-07')*, 2007, Athens, Greece.

A. Sawangsuriya, T. B. Edil and P. J. Bosscher, "Modulus-Suction-Moisture Relationship for Compacted Soils in Post-Compaction State," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, 2007, in press

A. Sawangsuriya, T. B. Edil and P. J. Bosscher, "Modulus-Suction-Moisture Relationship for Compacted Soils," *Canadian Geotechnical Journal*, 2007 in press.

A. Sawangsuriya, T. B. Edil, and C. H. Benson, "Effect of Suction on the Resilient Modulus of Compacted Fine-Grained Subgrade Soils," *Proc. 88th Annual Meeting*, Paper 09-3614, National Research Council, Washington D. C., 2009, CD-ROM.

Peats and Organic Soils

T. B. Edil and A. W. Dhowian, "Consolidation of Portage Peat," *Proceedings of the Waubesa Conference on Wetlands*, Madison, Wisconsin, Session I, 1977, pp. 24-37.

T. B. Edil and A. W. Dhowian, "Analysis of Long-Term Compression of Peats," *Geotechnical Engineering*, Southeast Asian Society of Soil Engineering, Vol. 10, No. 2, 1979, pp. 159-178.

W. Dhowian and T. B. Edil, "Consolidation Behavior of Peats," *Geotechnical Testing Journal*, American Society for Testing and Materials, Vol. 12, No. 3, 1980, pp. 545-548.

T. B. Edil and A. W. Dhowian, "At-Rest Lateral Pressure of Peat Soils," *Journal of the Geotechnical Engineering Division*, American Society of Civil Engineers, Vol. 107, No. GT2, 1981, pp. 201-217.

T. B. Edil, "Use of Preloading for Construction on Peat," *Proceedings of the 30th Minnesota Conference on Soil Mechanics and Foundation Engineering*, University of Minnesota, St. Paul, Minnesota, 1982, pp. 125-140.

T. B. Edil, "Improvement of Peats: A Case History," *Proceedings of the Eighth European Conference on Soil Mechanics and Foundation Engineering*, Helsinki, Finland, Vol. 2, 1983, pp. 739-744.

T. B. Edil and N. E. Mochtar, "Prediction of Peat Settlement," *Proceedings of the Symposium on Sedimentation/Consolidation Models*, American Society of Civil Engineers, San Francisco, California, 1984, pp. 411-424.

T. B. Edil, P. J. Bosscher and C. B. DeWitt, "Compression and Gravity Drainage as Means of Dewatering Peat," in *Peat and Water: Aspects of Water Retention and Dewatering in Peat*, Editor: C. H. Fuchsman, Elsevier Applied Science Publishers, 1986, pp. 21-36.

T. B. Edil and D. A. Simon-Gilles, "Settlement of Embankments on Peat: Two Case Histories," *Proceedings of the Conference on Advances in Peatlands Engineering*, National Research Council of Canada, Ottawa, Canada, 1986.

T. B. Edil, "Construction of Embankments on Peat," *Proceedings of the Second Baltic Conference on Soil Mechanics and Foundation Engineering*, Tallinn, USSR, Vol. 1, 1988, pp. 158-169.

T. B. Edil, P. J. Fox and L. T. Lan, "End-of-Primary Consolidation of Peat," *Proceedings of the Tenth European Conference on Soil Mechanics and Foundation Engineering*, Florence, Italy, Vol. 1, 1991, pp. 65-68.

T. B. Edil, P. J. Fox and L. T. Lan, "Observational Procedure for Settlement of Peat," *Geo-Coast '91*, Int'l Conference on Geotechnical Engineering for Coastal Development, Yokohama, Japan, 1991, Vol. 1, pp. 165-170.

P. J. Fox, T. B. Edil and L. T. Lan, " C_{α}/C_C Concept Applied to Compression of Peat," *Journal of Geotechnical Engineering*, American Society of Civil Engineering, Vol. 118, No. 8, 1992, pp. 1256-1263.

T. B. Edil, "Immediate Issues in Engineering Practice," *Proceedings of the International Workshop on Advances in Understanding and Modelling the Mechanical Behaviour of Peat*, den Haan, Termaat & Edil (eds.), Balkema, Rotterdam, 1993, pp. 403-413.

E. J. den Haan and T. B. Edil, (eds.), "Secondary and Tertiary Compression of Peat," *Advances in Understanding and Modelling the Mechanical Behaviour of Peat*, A. A. Balkema Publishers, Rotterdam, Netherlands, 1994, pp.49-60.

P. J. Fox and T.B. Edil, "Temperature-induced One-dimensional Creep of Peat," *Proceedings of the International Workshop on Advances in Understanding and Modelling the Mechanical Behaviour of Peat*, den Haan, Termaat & Edil (eds.), Balkema, Rotterdam, 1993, pp. 27-34.

T. B., P.J. Fox and L. T. Lan, "Stress-induced One-dimensional Creep of Peat," *Proceedings of the International Workshop on Advances in Understanding and Modelling the Mechanical Behaviour of Peat*, den Haan, Termaat & Edil (eds.), Balkema, Rotterdam, 1993, pp. 3-18.

P. J. Fox and T. B. Edil, "Micromechanics Model for Peat Compression," *Proceedings of the International Workshop on Advances in Understanding and Modelling the Mechanical Behaviour of Peat*, den Haan, Termaat & Edil (eds.), Balkema, Rotterdam, 1993, pp. 159-166.

T. B. Edil, P. J. Fox and L. T. Lan, "An Assessment of One-Dimensional Peat Compression," *Proceedings of the Thirteenth International Conference on Soil Mechanics and Foundation Engineering*, New Delhi, India, Vol. 1, 1994, pp. 229-232.

P. J. Fox, T. B. Edil and D. S. Malkus, "Discrete Element Model for Compression of Peat," *Proceedings of the Eighth International Conference of the Association for Computer Methods and Advances in Geomechanics*, Siriwardane and Zaman (eds), Morgantown, W.VA, 1994, pp. 815-820.

T. B. Edil and Evert J. den Haan, "Settlement of Peats and Organic Soils," *Settlement '94*, Specialty Conference of the American Society of Civil Engineers, Geotechnical Engineering Division, College Station, TX, Vol. 2, 1994, pp. 1543-1572 (**invited lecture, included in the list of best papers published by ASCE-GED in 1994**).

T. B. Edil and P. J. Fox, "Field Test of Thermal Precompression," *Settlement '94*, Specialty Conference of the American Society of Civil Engineers, Geotechnical Engineering Division, College Station, TX, Vol. 2, 1994, pp. 1274-1286.

P. J. Fox and T. B. Edil, "Effects of Stress and Temperature on Secondary Compression Behavior of Peat," *Canadian Geotechnical Journal*, Vol. 33, 1996, pp. 405-415.

T. B. Edil, "Construction over Peats and Organic Soils," *Proceedings of Conference on Recent Advances in Soft Soil Engineering*, Kuching, Sarawak, Malaysia, Vol. 1, 1997, pp. 85-108 **(invited lecture)**.

T. B. Edil, "Soft Soil Engineering: Peats and Organic Soils," *Proceedings of Indonesian Geotechnical Conference (Geoteknik di Indonesia Menjelang Milenium ke-3, Bandung, Indonesia, 1998, pp. 1/1-1/17 (invited lecture)*.

M. B. Hampton and T. B. Edil, "Strength Gain of Organic Ground with Cement-Type Binders," *Soil Improvement for Big Digs*, Geotechnical Special Publication No. 81, American Society of Civil Engineers, Boston, Massachusetts, 1998, pp. 135-148.

T. B. Edil and C. H. Benson, "Geotechnics of Industrial By-Products," *Recycled Materials in Geotechnical Applications*, Geotechnical Special Publication No. 79, American Society of Civil Engineers, Boston, Massachusetts, 1998, pp. 1-18.

T. Abichou, C. H. Benson and T. B. Edil, "Database on Beneficial Reuse of Foundry By-Products," *Recycled Materials in Geotechnical Applications*, Geotechnical Special Publication No. 79, American Society of Civil Engineers, Boston, Massachusetts, 1998, pp. 210-223.

T. Abichou, C. H. Benson, T. B. Edil and B. W. Freber, "Using Waste Foundry Sand for Hydraulic Barriers," *Recycled Materials in Geotechnical Applications*, Geotechnical Special Publication No. 79, American Society of Civil Engineers, Boston, Massachusetts, 1998, pp. 86-99.

T. B. Edil, "Construction over Soft Organic Ground: Issues and Recent Directions," *Proceedings of the 47th Minnesota Conference on Soils Mechanics and Foundation Engineering*, University of Minnesota, St. Paul, Minnesota, 1999, pp. 99-126. (Invited Lecture).

T. B. Edil and X. Wang, "Shear Strength and K_o of Peats and Organic Soils," *Geotechnics of High Water Content Materials*, ASTM STP 1374, American Society for Testing and Materials, T. B. Edil and P. J. Fox, Eds., 2000, pp. 209-225.

N. S. Fox and T. B. Edil, "Case Histories of Rammed Aggregate Pier Soil Reinforcement Construction over Peat and Highly Organic Soils," *Soft Ground Technology*, Geotechnical Special Publication No. 112, American Society of Civil Engineers, Noordwijkerhout, Netherlands, 2000, pp. 146-157.

J. L. Hanson, T. B. Edil, and P. J. Fox, "Stress-Temperature Effects on Peat," *Soft Ground Technology*, Geotechnical Special Publication No. 112, American Society of Civil Engineers, Noordwijkerhout, Netherlands, 2000, pp. 331-345.

T. B. Edil, "Site Characterization in Peat and Organic Soils," *Proceedings of the International Conference on In Situ Measurement of Soil Properties and Case Histories*, Bali, Indonesia, 2001, pp.49-59. **(Invited Lecture)**.

T. B. Edil, "Recent Advances in Geotechnical Characterization and Construction over Peats and Organic Soils," *Proceedings of the Second Conference on Advances in Soft Soil Engineering and Technology*, Putrajaya, Malaysia, 2003, pp. 3-26. **(Invited Keynote Lecture)**.

Geosynthetics

A. H. Aydilek and T.B. Edil, "Filtration Performance of Woven Geotextiles with Wastewater Treatment Sludge," *Geosynthetics International*, International Geosynthetics Society, 2002 Vol. 9, No. 1, pp. 41-69.

A. H. Aydilek, S. H. Oguz and T.B. Edil, "Digital Image Analysis to Determine Pore Opening Size Distribution of Nonwoven Geotextiles," *Journal of Computing in Civil Engineering*, ASCE, 2002, Vol. 16, No. 4, pp. 280-290.

A. H. Aydilek and T.B. Edil, "Long-Term Filtration Performance of Nonwoven Geotextile-Sludge Systems", *Geosynthetics International*, International Geosynthetics Society, 2003, Vol. 10, No. 4, pp. 110-123.

S. B. Gulec, C. H. Benson and T. B. Edil, "Effects of Acid Mine Drainage (AMD) on the Engineering Properties of Geosynthetics," *Tailings and Mine Waste'03, Proceedings of the Tenth International Conference on Tailings and Mine Waste*, Vail, Colorado, Swets & Zeitlinger (eds), Balkema, Lisse, 2003, pp. 173-179.

A. H. Aydilek, M. Guler and T. B. Edil, "Use of Image Analysis in Determination of Strain Distribution During Geosynthetic Tensile Testing," *Journal of Computing in Civil Engineering*, ASCE, 2004, Vol. 18, No. 1, pp. 65-74.

A. H. Aydilek and T.B. Edil, "Pore Structure Parameters of Woven Geotextiles", *Geotechnical Testing Journal*, ASTM, 2004, Vol. 27, No. 1, pp. 99-110.

S. B. Gulec, T. B. Edil and C. H. Benson, "Effect of Acidic Mine Drainage (AMD) on the Polymer Properties of an HDPE Geomembrane," *Geosynthetics International*, International Geosynthetics Society, 2004, Vol. 11, No. 2, 60-72.

C. H. Abdullah and T. B. Edil, "Full-Scale Geosynthetic-Reinforced Column-Supported Test Embankment," *Proceedings of NAGS 2005/GRI 19*, North American Geosynthetics Society, 2005, Las Vegas, NV (**selected for oral presentation in student competition**)

S. B. Gulec, C. H. Benson and T. B. Edil, "Effect of Acidic Mine Drainage (AMD) on the Mechanical and Hydraulic Properties of Geosynthetics," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, 2005, Vol. 131, No. 8, pp. 937-950.

A. H. Aydilek, S. H. Oguz and T. B. Edil, "Constriction Size of Geotextile Filters," *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 2005, Vol. 31, No. 1, pp. 28-38.

M. Mengelt, T. B. Edil, and C. H. Benson, "Resilient Modulus and Plastic Deformation of a Soil Confined in a Geocell," *Geosynthetics International*, 2006, Vol. 13, No. 5, pp. 1-11.

M. M. Berilgen, C. H. Abdullah, and T. B. Edil, "Behavior of a Test Embankment with Geogrid-Reinforced Load Transfer Platform Supported on Geopiers Columns," *Proceedings of the Second National Geosynthetics Conference*, 2006, Bogazici University, Istanbul, Turkey, pp. 165-175 (in Turkish).

C. H. Abdullah, and T. B. Edil, "Behavior of Geogrid-Reinforced Load Transfer Platforms for Embankment Supported on Rammed Aggregate Piers," *Geosynthetics International*, 2007, Vol. 14, No. 3, pp. 141-153.

C. H. Abdullah, and T. B. Edil, "Numerical Analysis and Arching Ratio of Catenary Load Transfer Platform for Geopier-Supported Embankment," *GeoDenver2007*, American Society of Civil Engineers, CD-ROM.

W. H. Kim, T. B. Edil, C. H. Benson and B. F. Tanyu, "Deflection of Prototype Geosynthetic-Reinforced Working Platforms Over Soft Subgrade," *Transportation Research Record*, No. 1975, Paper No. 06-2285, National Research Council, Washington D. C., 2005, pp. 137-145.

W. H. Kim, T. B. Edil, C. H. Benson and B. F. Tanyu, "Structural Contribution of Geosynthetic-Reinforced Working Platforms in Flexible Pavement," *Transportation Research Record*, No. 1936, Paper No. 05-2281, National Research Council, Washington D. C., 2005, pp. 70-77.

T. B. Edil, W. H. Kim, C. H. Benson and Burak F. Tanyu, "Contribution of Geosynthetic Reinforcement to Granular Layer Stiffness," *GeoDenver2007*, American Society of Civil Engineers, CD-ROM.

A. H. Aydilek and T. B. Edil, "Remediation of High Water Content Geomaterials: A Review of Geotextile Filter Performance," *GeoAmericas 2008*, The First Pan American Geosynthetics Conference and Exhibition, Cancun, Mexico, CD-ROM.

C. H. Abdullah, and T. B. Edil, "Performance of Instrumentation in Load Transfer Platforms for Geopier-Supported Embankment," *GeoAmericas 2008*, The First Pan American Geosynthetics Conference and Exhibition, Cancun, Mexico CD-ROM.

C.C. Schuettpelz, D. Fratta and T. B. Edil, "Stiffness Evaluation of Geogrid-Reinforced Poorly Graded Sand Using Elastic Waves," *GeoAmericas 2008*, The First Pan American Geosynthetics Conference and Exhibition, Cancun, Mexico, CD-ROM.

M. Berilgen, T. B. Edil and I. K. Ozaydin, "Comparison of 3D and 2D Modeling of Geosynthetic-Reinforced Load Transfer Platforms," *GeoAmericas 2008*, The First Pan American Geosynthetics Conference and Exhibition, Cancun, Mexico, CD-ROM.

C.C. Schuettpelz, D. Fratta and T. B. Edil, "Evaluation of the Zone of Influence and Stiffness Improvement due to Geogrid Reinforcement in Granular Materials," *Proc. 88th Annual Meeting*, Paper 09-2594, National Research Council, Washington D. C., 2009, CD-ROM

C.C. Schuettpelz, T. B. Edil and D. Fratta, "Evaluation of the Zone of Influence of Geogrid Reinforcement in Compacted Base Course Using Rotation Measurements," *Geosynthetics 2009*, Salt Lake City, UT

M. M. Berilgen, I. K. Ozaydin and T. B. Edil, "Comparison of 2D and 3D Analyses of Embankments with Geosynthetic-Reinforced Load Transfer Platforms Supported on Rigid Columns," *Proceedings of the 3rd National Conference on Geosynthetics*, 2008, Bogazici University, Istanbul, Turkey (in Turkish).

GEOMECHANICS AND GEOTECHNICAL ENGINEERING

Interface Friction & Soil-Structure Interaction

T. B. Edil and G. H. Bahmanyar, "Stresses in Buried Conduits Caused by Freezing Front," *Cold Regions Science and Technology*, No. 8, 1983, pp. 129-137.

G. H. Bahmanyar and T. B. Edil, "Cold Weather Effects on Underground Pipeline Failures," *Proceedings of the Conference on Pipelines in Adverse Environments*, American Society of Civil Engineers, San Diego, California, 1983, pp. 579-593.

T. B. Edil, C. J. Roblee and C. A. Wortley, "Design Approach for Piles Subject to Ice Jacking," *Journal on Cold Regions Engineering*, American Society of Civil Engineers, Vol. 2, No. 2, 1988, pp. 65-85, **(Best Paper Award)**.

I. B. Mochtar and T. B. Edil, "Shaft Resistance of a Model Pile in Clay," *Journal of Geotechnical Engineering*, American Society of Civil Engineers, Vol. 114, No. 11, 1988, pp. 1227-1244.

T. B. Edil and I. B. Mochtar, "Creep Response of a Model Pile in Clay," *Journal of Geotechnical Engineering*, American Society of Civil Engineers, Vol. 114, No. 11, 1988, pp. 1245-1260.

M. A. Abdel Rahman and T. B. Edil, "An Integration Algorithm for Constitutive Models with Two Intersecting Yield Surfaces," *Microcomputers in Civil Engineering*, No. 6, 1991, pp. 99-108.

M. A. Abdel Rahman, M. A. Othman and T. B. Edil, "Effect of Plate Flexibility on Behavior of Shallow Anchors," *Soils and Foundations*, Japanese Society of Soil Mechanics and Foundation Engineering, Vol. 32, No. 3, 1992, pp. 137-143.

M. A. Othman and T. B. Edil, "Force-Displacement Behavior of Flexible Plate Anchors," ASCE, *Journal of Geotechnical Engineering*, Vol. 119, No. 3, 1993, pp. 590-597.

T. B. Edil and M. A. Abdel Rahman, "Shaft Resistance of Model Pile in Granular Soil," *Proceedings of the 2nd International Geotechnical Seminar on Deep Foundations on Bored and Auger Piles*, Ghent, Belgium, 1993, pp. 279-284.

T. B. Edil, "Sand-Structure Interface Problem," *Proceedings of the Second Geotechnical Engineering Conference*, Cairo University, Cairo, Egypt, Vol. II, 1994, pp. 173-197 **(invited lecture)**.

M. E. Plesha and T. B. Edil, "Microstructural Behavior and Modeling of Particulate Media - Structure and Media - Media Interfaces," *Proceedings of the Workshop on Mechanics of Statistical Physics of Particulate Materials*, LaJolla, California, 1994, pp. 78-81.

I. Al-Mhaidib and T. B. Edil, "Effect of Pile-End on Uplift Capacity of Pipe Piles in Sand," *Proceedings of the 1st Regional Conference & Exhibition of ASCE - SAS*, Manama, Bahrain, 1994, pp. 395-396.

I. Al-Mhaidib and T. B. Edil, "Effects of Pile Installation Method on Uplift Capacity of Piles in Sand," *Proceedings of the 4th Saudi Engineering Conference*, Jeddah, Saudi Arabia, Vol. II, 1995, pp. 353-360.

T. B. Edil and A. I. Al-Mhaidib, "Direct Measurement of Shaft Resistance Distribution," *70 Years of Soil Mechanics*, An International Symposium on Geotechnics, Istanbul, Turkey, 1995, pp. 119-139.

N. R. ElSakhawy and T. B. Edil, "Behavior of Shaft-Sand Interface from Local Measurements," *Transportation Research Record*, No. 1548, Washington D. C., 1996, pp. 74-80.

M. A. Abdel Rahman and T. B. Edil, "Numerical Study of Soil-Pile Interaction," *Proceedings of the Volume Honoring Prof. Dr. Vedat Yerlici*, Bogazici University Press, Istanbul, 1997, pp. 1-12.

I. Al-Mhaidib and T. B. Edil, "Large Model Tests for Uplift Capacity of Piles in Sand," *Geotechnical Testing Journal*, American Society for Testing and Materials, Vol. 21, No. 3, 1998, pp. 213-221.

M. Guler, T. B. Edil, and P. J. Bosscher, "Measurement of Particle Movement in Granular Soils Using Image Analysis," *Journal of Computing in Civil Engineering*, American Society of Civil Engineers, Vol. 13, No. 2, 1999, pp. 116-122.

R. P. Jensen, P.J. Bosscher, M. E. Plesha and T. B. Edil, "DEM Simulation of Granular Media-Structure Interface: Effects of Surface Roughness and Particle Shape," *International Journal for Numerical and Analytical Methods in Geomechanics*, Vol. 23, 1999, pp. 531-547.

R. P. Jensen, T. B. Edil, P.J. Bosscher, M. E. Plesha and N. Ben Kahla, "Effect of Particle Shape on Interface Behavior of DEM-Simulated, Granular Materials," *International Journal of Geomechanics*, Vol. 1, No. 1, 2001, pp. 1-19.

R. P. Jensen, M. E. Plesha, T. B. Edil, P.J. Bosscher and N. Ben Kahla, "DEM Simulation of Particle Damage in Granular Media-Structure Interfaces," *International Journal of Geomechanics*, Vol. 1, No. 1, 2001, pp. 21-39.

M. Zeghal and T. B. Edil, "Soil-Structure Interaction Analysis: Modeling the Interface," *Canadian Geotechnical Journal*, Vol. 39, 2002, pp. 620-628.

M. Zeghal, T. B. Edil, and M. E. Plesha, "Discrete Element Method for Sand-Structure Interaction," *Proceedings of the 3rd International Conference on Discrete Element Method*, Santa Fe, N.M. Cook & Jensen (eds), 2002, pp. 317-322.

V. E. Komurka, A. B. Wagner and T. B. Edil, "A Review of Pile Set-up," *Proceedings of the 30th Minnesota Conference on Soil Mechanics and Foundation Engineering*, University of Minnesota, St. Paul, Minnesota, 2003, pp. 105-130.

T. B. Edil, P. J. Bosscher, and A. Sundberg, "Soil-Structure Interface Shear Transfer Behavior," *Geomechanics II, Proceedings of the Second Japan-U.S. Workshop on Testing, Modeling, and Simulation in Geomechanics* held in Kyoto, Japan, Geotechnical Special Publication No. 156, American Society of Civil Engineers, 2006, pp. 528-543.

Soft Ground Engineering

R. J. Krizek, M. Casteleiro and T. B. Edil, "Desiccation and Consolidation of Dredged Materials," *Journal of the Geotechnical Engineering Division*, American Society of Civil Engineers, Vol. 103, No. GT 12, 1977, pp. 1399-1418.

M. Cateleiro, R. J. Krizek and T. B. Edil, "Mathematical Model for One-dimensional Desiccation and Consolidation of Sedimented Soils," *International Journal for Numerical and Analytical Methods in Geomechanics*, Vol. 5, 1981, pp. 145-215.

P. J. Bosscher and T. B. Edil, "Performance of Lightweight Waste-Impoundment Dikes," *Proceedings of the Second International Conference on Case Histories in Geotechnical Engineering*, St. Louis, Missouri, Vol. 1, 1988, pp. 63-69.

V. J. Ranguette, T. B. Edil and D. G. Otzelberger, "Comparison of Refuse Settlement Prediction Models," *Proceedings of the Twelfth Madison Waste Conference*, Madison, WI, 1989, pp. 520-531.

T. B. Edil, V. J. Ranguette and W. W. Wuellner, "Settlement of Municipal Refuse," *Geotechnics of Waste Fills-Theory and Practice*, American Society of for Testing and Materials, Special Technical Publication 1070, 1990, pp. 225-239.

I. K. Ozaydin, T. B. Edil and M. S. Ozcoban, "Analysis of Foundation Settlements under Alibey Dam," *Proceedings of the 6th Turkish National Congress on Soil Mechanics and Foundation Engineering*, Izmir, 1996, pp. 157-168.

H. Kilic, M. M. Berilgen, K. I. Ozaydin and T. B. Edil, "Coupled Analysis of Stress-Strain-Consolidation Behavior of Alibey Dam Foundation," *Proceedings of the 7th Turkish National Congress on Soil Mechanics and Foundation Engineering*, Istanbul, Turkey, Vol. 1, 1998, pp. 1-11 (in Turkish).

H. Aydilek and T. B. Edil, "Capping of Sludge Lagoons," *Proceedings of the 7th Turkish National Congress on Soil Mechanics and Foundation Engineering*, Yildiz Technical University, Istanbul, Turkey, Vol. 2, 1998, pp. 599-610.

T. B. Edil, "Deep Chemical Stabilization of Soft Ground," *Proceedings of the 7th Turkish National Congress on Soil Mechanics and Foundation Engineering*, Istanbul, Turkey, Vol. 3, 1998 (**Invited Lecture**).

J. L. Hanson, T. B. Edil and N. Yesiller, "Thermal Properties of High Water Content Materials," *Geotechnics of High Water Content Materials*, ASTM STP 1374, American Society for Testing and Materials, T. B. Edil and P. J. Fox, Eds., 2000, pp. 137-151.

M. M. Berilgen, I. K. Ozaydin and T. B. Edil, "A Case History: Dredging and Disposal of Golden Horn Sediments," *Geotechnics of High Water Content Materials*, ASTM STP 1374, American Society for Testing and Materials, T. B. Edil and P. J. Fox, Eds., 2000, pp. 324-339.

A. H. Aydilek, T. B. Edil and P. J. Fox, "Consolidation Characteristics of Wastewater Sludges," *Geotechnics of High Water Content Materials*, ASTM STP 1374, American Society for Testing and Materials, T. B. Edil and P. J. Fox, Eds., 2000, pp. 309-323.

T. B. Edil, "Construction of Caps over Soft Sludges," *Soft Ground Technology*, Geotechnical Special Publication No. 112, American Society of Civil Engineers, Noordwijkerhout, Netherlands, 2000, pp. 358-373. (**invited lecture**).

T. B. Edil, "Soft Ground Engineering for Transportation Structures," *Proceedings of the International Conference on Advances in Strategic Technologies-2000*, Kuala Lumpur, Malaysia, Vol. II, 2000, pp.1475-1490 (Invited Lecture).

T. B. Edil, A. Senol, and N. S. Fox, "Reinforcement of Soft Soils by Rammed Aggregate Pier™ Method," *Proceedings of the 8th Turkish National Congress on Soil Mechanics and Foundation Engineering*, Istanbul, Turkey, Vol. 3, 2000, pp. 251-260.

T. B. Edil, and A. H. Aydilek, "Geotechnics of Capping Very Soft Wastes," *Proceedings of the Thirteenth International Conference on Soil Mechanics and Geotechnical Engineering*, Istanbul, Turkey, Vol. 3, 2001, pp. 1903-1906.

K. Ozaydin, H. Kilic, M. M. Berilgen, M. Ozcoban, S. Yildirim, and T. B. Edil, "Determination of Deformations in Soft Soils with a Coupled Analysis-Alibey Dam," *Proceedings of the Thirteenth International Conference on Soil Mechanics and Geotechnical Engineering*, Istanbul, Turkey, Vol. 1, 2001, pp. 471-474 (in Turkish).

E. Biringen and T. B. Edil, "Improvement of Soft Ground by Radial Preloading," *Proceedings of the Second Conference on Advances in Soft Soil Engineering and Technology*, Putrajaya, Malaysia, 2003, pp. 741-752.

D. A. Staab, T. B. Edil and D. L. Alumbaugh, "Non-Destructive Evaluation of Cement Mixed Soils," *Drilled Shafts, Micropiling, Deep Mixing, Remedial and Specialty Foundation Systems*, Geotechnical Special Publication No. 124, American Society of Civil Engineers, *Geo-Support 2004*, Orlando, Florida, 2004, pp. 838-848.

A. Edincliler, T. B. Edil and Craig H. Benson, "Shear Strength of Municipal Solid Waste," *Proceedings of the 10th Turkish National Congress on Soil Mechanics and Foundation Engineering*, Istanbul Technical University, Istanbul, Turkey, 2004, pp. 339-340.

D. A. Staab, D. L. Alumbaugh, T. B. Edil, "Defect Detection in Deep-Mixed Columns Using Geophysical Methods: A Computer Modeling Study," *Earthquake Engineering and Soil Dynamics*, Geotechnical Special Publication No. 133, *Geo-Frontier 2005*, American Society of Civil Engineers, 2005, Austin, Texas, pp. 1-15.

D. A. Staab, T. B. Edil, D. L. Alumbaugh and A. Porbaha, "Geophysical Evaluation of Cement-Mixed Columns," *Deep Mixing 05, Proceedings of the International Conference on Deep Mixing Best Practice and Recent Advances*, Stockholm, Sweden, 2005, CD-ROM.

E. Biringen, M. Berilgen, and T. B. Edil, "Numerical Modeling of Preload™ Pier by Cavity Expansion," *Proceedings of the Seventh International Congress on Advances in Civil Engineering*, 2006, Yildiz Technical University, Istanbul, Turkey, CD-ROM.

S. Ozcoban, M. M. Berilgen, H. Kilic, T. B. Edil, and I. K. Ozaydin, "Construction and Behavior of a Dam Founded on Soft Clay," *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, 2007, Vol. 133, No. 8, 1003-1016.

C. Bareither, R. Breitmeyer, S. Erses, C.H. Benson, T.B. Edil, and M. Barlaz, "Relative Contributions of Moisture and Biological Activity on Compression of Municipal Solid Waste in Bioreactor Landfills," *Proceedings*, Global Waste Management Symposium, 2008, Penton Media, Orlando, pp. 1-9.

R. Breitmeyer, C. Bareither, C.H. Benson, T.B. Edil, and M. Barlaz, "Field-Scale Lysimeter Experiment to Study Hydrologic and Mechanical Properties of Municipal Solid Waste," *Proceedings*, Global Waste Management Symposium, 2008, Penton Media, Orlando, pp. 1-11.

T. B. Edil and M. M. Berilgen, "Construction of Earth Dams on Soft Ground: Principles and Case Histories," *Proceedings of the National Dam Safety Conference*, 2008, Osman Gazi University, Eskisehir, Turkey CD-ROM (in Turkish).

T. B. Edil, M. M. Berilgen and I. K. Ozaydin, "Behavior of Earth Dams Built on Soft Soil Deposits," *Proceedings of the 12th Turkish National Congress on Soil Mechanics and Foundation Engineering*, Selcuk University, Konya, Turkey, 2008, CD-ROM (in Turkish).

T. B. Edil and M. M. Berilgen, "Construction of Earth Dams on Soft Ground: Principles and Examples," *Advances in Ground Improvement, Proceedings of the U.S.-China Workshop on Ground Improvement Technologies*, Geotechnical Special Publication No. 188, American Society of Civil Engineers, 2009, Orlando, Florida, pp. 298-307.

Pavement Geotechnics

T. B. Edil, C. H. Benson, M. S. Bin-Shafique, B. F. Tanyu, W. H. Kim, and A. Senol, "Field Evaluation of Construction Alternatives for Roadway over Soft Subgrade," *Transportation Research Record*, No. 1786, Paper No. 02-3808, National Research Council, Washington D. C., 2002, pp. 36-48.

A. Sawangsuriya, P. J. Bosscher and T. B. Edil, "Laboratory Evaluation of the Soil Stiffness Gauge (SSG)," *Transportation Research Record*, No. 1808, Paper No. 02-3608, National Research Council, Washington D. C., 2002, pp. 30-37.

A. Sawangsuriya, T. B. Edil and P. J. Bosscher, "Relationship Between Soil Stiffness Gauge Modulus and Other Test Moduli for Granular Soils," *Transportation Research Record*, No. 1849, Paper No. 03-4089, National Research Council, Washington D. C., 2003, pp. 3-10.

Sawangsuriya, T. B. Edil and P. J. Bosscher, "Relationship of Soil Stiffness Gauge Modulus to Other Test Moduli," *Transportation Research Record*, No. 1849, Paper No. 03-4089, National Research Council, Washington D. C., 2003, pp. 3-10.

B. F. Tanyu, W. H. Kim, T. B. Edil and C. H. Benson, "Comparison of Laboratory Resilient Modulus with Back-Calculated Elastic Moduli from Large-Scale Model Experiments and FWD Tests on Granular Materials," *Resilient Modulus Testing for Pavement Components, ASTM STP 1437*, G. N. Durham, A. W. Marr, and W. L. De Groff, Eds., ASTM, West Conshohocken, PA, 2003, 191-208.

A. Sawangsuriya, T. B. Edil and P. J. Bosscher, "Assessing Small-Strain Stiffness of Soils Using the Soil Stiffness Gauge," *Proceedings of the 15th Southeastern Asian Geotechnical Engineering Conference*, Bangkok, Thailand, S. Sambhandharaksa, D. T. Bergado, T. Boonyatee, eds., 2004, Vol 1, pp. 101-106.

A. Sawangsuriya and T. B. Edil, "Use of Soil Stiffness Gauge and Dynamic Cone Penetration for Pavement Materials Evaluation," *Geotechnical Engineering*, Institute of Civil Engineers, United Kingdom, 2005, Vol. 158, No. GE4, pp. 217-230.

T. B. Edil and A. Sawangsuriya, "Earthwork Quality Control Using Soil Stiffness," *Proceedings of the 16th International conference on Soil Mechanics and Geotechnical Engineering*, Osaka, Japan, CD-ROM

A. Sawangsuriya, P. J. Bosscher and T. B. Edil "Application of Soil Stiffness Gauge in Assessing Small-Strain Stiffness of Sand with Different Fabrics and Densities," *Geotechnical Testing Journal*, ASTM, 2006, Vol. 29, No. 3, pp. 1-10.

T. B. Edil and A. Sawangsuriya, "Use of Stiffness and Strength for Earthwork Quality Evaluation," *Site and Geomaterial Characterization*, American Society of Civil Engineers, GSP 149, *GeoShanghai 06*, 2006, Shanghai, China, pp. 80-87.

T. Edil, "Evaluation of Resilient Modulus and Environmental Suitability of Two Granular Recycled Materials," *In Geotechnical Aspects and Processed Materials in Design and Construction of Pavement and Rail Track*, A. G. Correia & A. Lozios, Editors, A.A. Balkema Publishers, The Netherlands, 2007.

M. Fall, A. Sawangsuriya, C. H. Benson, T. B. Edil and P. J. Bosscher, "On the Investigation of Resilient Modulus of Residual Tropical Gravel Lateritic Soils from Senegal (West Africa)," *Geotechnical and Geological Engineering*, 2008, Vol. 26, No. 1, pp. 13-36.

Coastal Erosion and Slope Stability

T. B. Edil and L. E. Vallejo, "Shoreline Erosion and Landslides in the Great Lakes," *Proceedings of the Ninth International Conference on Soil Mechanics and Foundation Engineering*, Tokyo, Japan, Vol. 2, 1977, pp. 51-57.

J. A. Shands, P. L. Monkmeyer and T. B. Edil, "Shore Protection Demonstration Project on Lake Superior," *Proceedings of the Coastal Zone 78 Specialty Conference*, American Society of Civil Engineers, San Francisco, California, Vol. III, 1978, pp. 1954-1972.

T. B. Edil and P. L. Monkmeyer, "Demonstration of Shoreline Protection on Lake Superior," *Proceedings of the Environmental Protection Agency Conference on Voluntary and Regulatory Approaches for Nonpoint Source Pollution Control*, Chicago, Illinois, 1978, EPA 905/9-78-001, pp. 134-157.

L. E. Vallejo and T. B. Edil, "Design Charts for Development and Stability of Evolving Slopes," *Journal of Civil Engineering Design*, Vol. I, No. 3, 1979, pp. 231-252.

T. B. Edil and L. E. Vallejo, "Mechanics of Coastal Landslides and the Influence of Slope Parameters," *Engineering Geology*, Special Issue on Mechanics of Landslides and Slope Stability, No. 16, 1980, pp. 83-96.

T. B. Edil and B. J. Haas, "Proposed Criteria for Interpreting Stability of Lakeshore Bluffs," *Engineering Geology*, Special Issue on Mechanics of Landslides and Slope Stability, No. 16, 1980, pp. 97-110.

T. B. Edil, "Control of Coastal Landslides," *Proceedings of the International Symposium on Landslides*, Vol. 3, New Delhi, India, 1980, pp. 240-245.

L. E. Vallejo and T. B. Edil, "Stability Analysis of Thawing Slopes: Field and Theoretical Investigations," *Proceedings of the International Conference on Soil Mechanics and Foundation Engineering*, Stockholm, Sweden, Vol. 3, 1981, pp. 545-548.

T. B. Edil, "Causes and Mechanics of Coastal Bluff Recession in the Great Lakes," State-of-the-Art Paper, *Proceedings of the Bluff Slumping Workshop*, Michigan Sea Grant, MICHU-SG-82-901, Romulus, Michigan, 1982, pp. 1-48.

R. J. Sterrett and T. B. Edil, "Ground-Water Flow Systems and Stability of a Slope," *Ground Water*, Vol. 20, No. 1, 1982, pp. 5-11.

- T. B. Edil and M. N. Schultz, "Landslide Hazard Potential Determination Along a Shoreline Segment," *Engineering Geology*, No. 19, 1983, pp. 159-177.
- M. N. Schultz, T. B. Edil and A. Bagchi, "Geomorphology and Stability of Southwestern Lake Superior Coastal Slopes," *Proceedings of the Fourth International Symposium on Landslides*, Toronto, Canada, Vol. I, 1984, pp. 197-202.
- T. B. Edil, "Slope Stability Experience on the Great Lakes Shoreline," *Proceedings of the 34th Minnesota Conference on Soils Mechanics and Foundation Engineering*, University of Minnesota, St. Paul, Minnesota, 1986, pp. 124-147.
- T. B. Edil and P. J. Bosscher, "Lake Shore Erosion Processes and Controls," *Proceedings of the International Erosion Control Association Nineteenth Annual Conference*, New Orleans, Louisiana, 1988, pp. 438-456.
- P. J. Bosscher, T. B. Edil and D. M. Mickelson, "Evaluation of Risks of Slope Instability Along a Coastal Reach," *Proceedings of the Fifth International Symposium on Landslides*, Lausanne, Switzerland, Vol. 2, 1988, pp. 1119-1125.
- T. B. Edil, "Landslide Cases in the Great Lakes: Issues and Approaches," *Transportation Research Record*, No. 1343, 1992, pp. 87-94.
- D. M. Mickelson, T. B. Edil and P. J. Bosscher, "Landslide Hazard Assessment for Shoreline Erosion Management," *Proceedings of the 6th International Symposium*, Christ Church, New Zealand, 1992, pp. 1009-1014.
- D. M. Mickelson and T. B. Edil, "Evolution of Form and Process on High Bluffs Subject to Large-Scale Slumping Along Wisconsin's Lake Michigan Shoreline," *Abstracts with Programs*, Geological Society of America, Vol. 30, 1998, pp. 251.
- S. D. Mackey, D. E. Guy, Jr., G. A. Meadows, M. Perlin, T. Ozkan-Haller, D. M. Mickelson and T. B. Edil, "Nearshore Models: A Method to Assess Cumulative Impacts of Shoreline Armoring on Nearshore Habitat," *Geological Society of America Abstracts with Programs*, Vol. 31, No. 5, 1999, pp. A-57.
- D. M. Mickelson and T. B. Edil, "Episodic Large-Scale Slumping and Sediment Delivery to Lower Slopes on High Lake Michigan Bluffs," *Proceedings of the 42nd Conference on Great Lakes Research*, *Abstracts with Programs*, Cleveland, Ohio, 1999, p. A-79.
- E. A., Brown, D. M. Mickelson, C. Wu and T. B. Edil, "Influence of Lake Level on Recession of High and Low Shore Bluffs on Wisconsin's Lake Michigan Shoreline," *Abstracts with Programs*, Geological Society of America, Vol. 33, No. 4, 2001, pp. 12.
- J. A. Chapman, T. B. Edil and D. M. Mickelson, "Interpretation of Probabilistic Slope Analyses for Shoreline Bluffs," *Solutions to Coastal Disasters '02*, L. Ewing and L. Wallendorf (Eds.), American Society of Civil Engineers, San Diego, CA, 2002, pp. 640-651.
- D. M. Mickelson, E. A. Brown, T. B. Edil, G. A. Meadows, D. E. Guy, D. L. Liebenthal and J. A. Fuller, "Comparison of Sediment Budgets of Bluff/Beach/Nearshore Environments Near Two Rivers, Wisconsin, on Lake Michigan, and at Painesville, Ohio, on Lake Erie," *Geological Society of America Abstracts with Programs*, Vol. 34, No. 2, 2002, pp. A-12.

T. B. Edil, D. M. Mickelson and J. A. Chapman, "Predictive Capability of Stability Analyses for Coastal Bluffs," *Soil and Rock America 2003, Proceedings of the Twelfth Panamerican Conference on Soil Mechanics and Geotechnical Engineering*, Boston, Massachusetts, Vol. 2, 2003, pp. 2445-2450.

L. Anderson, D. M. Mickelson, T. B. Edil, C. Wu, M. Miller and L. Pearson, "Characterization of the Last 25 years of Shoreline Change on Wisconsin's Lake Superior Shoreline," *Abstracts of the 46th Annual Conference of the International Association for Great Lakes Research*, 2003, pp. 159.

M. Berilgen and T. B. Edil, "Impact of Rapid Drawdown on Slope Stability," *Proceedings of the 10th Turkish National Congress on Soil Mechanics and Foundation Engineering*, Istanbul Technical University, Istanbul, Turkey, 2004, pp. 539-548 (in Turkish).

M. A. Hampton, G. B. Griggs, T. B. Edil, D. E. Gray, J. T. Kelley, P. D. Komar, D. M. Mickelson and H. M., "Processes That Govern the Formation and Evolution of Coastal Cliffs," in *Formation, Evolution, and Stability of Coastal Cliffs-Status and Trends*, M.A. Hampton and G.B. Griggs, eds., Professional Paper 1693, U.S. Geological Survey, U.S. Department of Interior, 2004, pp. 7-38 (**Blue Pencil Award, NAGC**).

D.M. Mickelson, T. B. Edil and D. E. Guy, D.E. "Erosion of Coastal Bluffs in the Great Lakes," in *Formation, Evolution, and Stability of Coastal Cliffs-Status and Trends*, M.A. Hampton and G.B. Griggs, eds., Professional Paper 1693, U.S. Geological Survey, U.S. Department of Interior, 2004, pp. 107-123 (**Blue Pencil Award, NAGC**).

E. A., Brown, C. Wu, D. M. Mickelson, and T. B. Edil, "Factors Controlling Rates of Bluff Recession at Two Sites on Lake Michigan Shoreline," *Journal of Great Lakes Research*, International Association of Great Lakes Research, 2005, 31, pp. 306–321.

G. A. Meadows, S. D. Mackey, R. R. Goforth, D. M. Mickelson, T. B. Edil, J. Fuller, D. E. Guy Jr., L. A. Meadows, E. A. Brown, S. M. Carman and D. L. Liebenthal "Cumulative Habitat Impacts of Nearshore Engineering," *International Journal of Great Lakes Research*, No. 31, 2005, pp. 90-112.

M. J. Swenson, C. H. Wu, T. B. Edil and D. M. Mickelson, "Bluff Recession Rates and Wave Impact Along the Wisconsin Coast of Lake Superior," *International Journal of Great Lakes Research*, No. 32, 2006, pp. 512-530.

Miscellaneous Publications

T. B. Edil and M. T. Tumay, "A Statistical Study of Factors Affecting Sulfate Attack in Concrete," Turkish Society of Civil Engineers, *Technical Bulletin*, No. 9, pp. 33-56.

S. W. Nunally, R. J. Krizek and T. B. Edil, "Empirical Liquefaction Index for Sands," *Proceedings of the Fifth European Conference on Earthquake Engineering*, Istanbul, Turkey, Vol. 1, Paper No. 17, 1975, pp. 150-166.

P.L.M. Veneman, J. Bouma and T. B. Edil, "Soil Shear Strength Variation in Soils of a Batavia Silt Loam Mapping Unit," *Soil Science Society of America Journal*, Vol. 40, No. 3, 1976, 462-465.

W. E. Saul, T. B. Edil and Y. W. Chang, "Seismic Response of Pile-Supported Structures," *Proceedings of the International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics*, St. Louis, Missouri, Vol. 2, 1981, pp. 320-332.

G. C. Whited and T. B. Edil, "Influence of Bore Hole Stabilization Techniques on Standard Penetration Test Results," *Geotechnical Testing Journal*, American Society for Testing and Materials, Vol. 9, No. 4, 1986, pp. 180-188.

T. B. Edil, "Soil Sampling," *Encyclopedia of Earth Science Series*, Vol. XIV-*Field & General Geology*, (Series Editor: R. W. Fairbridge, Volume Editor: C. W. Finkl, Jr.), 1988, pp. 788-792.

T. B. Edil, "Journal Paper Review Procedures and Statistics," *Journal of Geotechnical Engineering*, American Society of Civil Engineers, Vol. 115, No. 2, 1989, pp. 281-288.

T. B. Edil and A. S. Alanazy, "Lateral Swelling Pressures," *Proceedings of the 7th International Conference on Expansive Soils*, Dallas, TX, 1992, pp. 227-232.

S. Abdelhamid and T. B. Edil "Role of University Educators in Developing Future Leaders of Engineering Enterprise," *Geotechnical Materials: Measurement and Analysis, Proceedings of Raymond J. Krizek Commemorative Symposium*, Northwestern University, Evanston, Illinois, 2002, pp. 262-268.

A. Sawangsuriya, E. Biringen, D. Fratta, P. J. Bosscher, and T. B. Edil, "Dimensionless Limits for the Collection and Interpretation of Wave Propagation Data in Soils," *Site and Geomaterial Characterization*, American Society of Civil Engineers, GSP 149, *GeoShanghai 06*, 2006, Shanghai, China, pp. 160-166.

J. M. Tinjum, C. H. Benson, T. B. Edil and A. Chowdury, "An Innovative Method to Treat Chromium Ore Processing Residue," *In Situ Treatment Chromium, Proc. of the 8th International In Situ and On-Site Bioremediation Symposium*, 2005, Baltimore, MD.

J. M. Tinjum, C. H. Benson and T. B. Edil, "Mobilization of Cr(VI) from Chromite Ore Processing Residue through Acid Treatment," *Science of Total Environment*, 2008, Vol. 391, No. 1, pp. 13-25.

J. M. Tinjum, C. H. Benson, and T. B. Edil, "Treatment of Cr(VI) in COPR Using Ferrous Sulfate-Sulfuric Acid or Cationic Polysulfides." *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, 2008, Vol. 134, No. 12, pp. 1791-1803.

Panel Contributions and Discussions

T. B. Edil, "An Integrated Fabric Approach to Soil Behavior," Panel Presentation, Session II, *Proceedings of the Istanbul Conference on Soil Mechanics and Foundation Engineering*, Istanbul, Turkey, Vol. 3, 1975, pp. 85-88.

- T. B. Edil, "University of Wisconsin-Madison Coastal Research Activities," *Proceedings of the Workshop on Research on Great Lakes Sedimentation and Erosion*, Canada Center for Inland Waters, Hamilton, Ontario, Canada, 1976, pp. 95-98.
- T. B. Edil, "Load-Deformation Behavior of Soils Under Dynamic Loads," Panel Presentation, Session 1B, *Proceedings of Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics*, St. Louis, Missouri, Vol. 3, 1981, pp. 916-917.
- T. B. Edil, "Coastal Landslide Hazard Zoning," Discussion, Session 12, *Proceedings of the Tenth International Conference on Soil Mechanics and Foundation Engineering*, Stockholm, Sweden, Vol. 4, 1981, pp. 910-911.
- T. B. Edil, Discussion to K_0 -OCR Relationships in Soil," by P. W. Mayne and E. Kulhawy in the *Journal of the Geotechnical Division*, American Society of Civil Engineers, Proceedings Paper 17152, 1982.
- T. B. Edil, Discussion in "Permeability and Consolidation of Normally Consolidated Soils," by A. M. Samarasinghe, Y. H. Huang and V. P. Drnevich in the *Journal of Geotechnical Division*, American Society of Civil Engineers, Proceedings Paper 17153, 1982.
- T. B. Edil, "Preloading of Peat," Discussion, Session 7, *Proceedings of the Eighth European Conference on Soil Mechanics and Foundation Engineering*, Helsinki, Finland, Vol. 3, 1983, pp. 1261.
- T. B. Edil, "Discussion of Issues Raised on Creep," Discussion, *Proceedings of the Tenth European Conference on Soil Mechanics and Foundation Engineering*, Florence, Italy, 1991.
- T. B. Edil, "Local Measurements of Interface Strains," Discussion, *Proceedings of the Tenth European Conference on Soil Mechanics and Foundation Engineering*, Florence, Italy, 1991.
- C. H. Benson and T. B. Edil, "Comments on A Polymer Membrane Containing Fe₀ as a Contaminant Barrier," by T. Shimotori, E. E. Nuxoll, E. L. Cusslar and W. A. Arnold, *Environmental Science and Technology*, 2004, Vol. 38, No. 7, pp. 2264-2270.