

WELCOME!

to the ASCE Michigan Section's inaugural Speaker's Bureau!

Our goal in presenting this booklet is to allow our members the opportunity to share their knowledge with your group or school, and to make our resources available to you whether you are a program chairperson, educator, or community leader.

To schedule one of our speakers, simply use the information provided after a topic to contact each speaker directly.

For other questions, or to become a member of the ASCE Michigan Section's Speaker's Bureau, call James Hegarty, P.E. at 616-364-8491 or e-mail him at jhegarty@preinnewhof.com

About the ASCE Michigan Section

The Michigan Section of ASCE boasts a statewide membership of 2,500 civil engineers, and is comprised of eight local branches throughout Michigan. ASCE provides professional opportunities, publications, journals, and educational resources for civil engineers nationwide

ASCE hosts student chapters at the following colleges and universities:

University of Michigan
Michigan State University
Michigan Technological University
Lawrence Technological University
University of Detroit-Mercy
Calvin College

The Speaker's Bureau Directory is published by the American Society of Civil Engineers (ASCE), Michigan Section. ASCE/Michigan Section and/or its branches are not responsible for any statements made or opinions expressed by any of the participating speakers.

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Floodproofing Existing Structures

Natural disasters continue to occur on what appears to be an ever-continuing basis, causing damages never before believed possible. However, the public is tired of supporting flood damage repair and disaster relief with their federal tax dollars. Owners of repetitively flooded structures are going to be required to floodproof or relocate. There are many techniques available to reduce future flood losses to existing buildings. This presentation will briefly touch on methods such as elevation, wet and dry floodproofing, floodwalls, sealants, closures, and inflatable barriers. Flood audits to assess a building's vulnerability will also be discussed.

Wallace A. Wilson, P.E.

W. A. Wilson Consulting Services

2557 Donna Drive

Willamston, MI 48895

517-655-1828 or willsonconsulting@worldnet.att.net

Mr. Wilson is owner of W.A. Wilson Consulting Services, specializing in floodproofing/retrofitting, flood mitigation studies, and flood hazard management services. Previously, he was the Chief of Flood Hazard Management with the Michigan Department of Natural Resources from which he retired after twenty-four years of service. From 1985 to 1997, he was Chair of the Association of State Floodplain Managers (ASFPM) Floodproofing Committee. He was also the Association's Region V Director for four years and currently serves as a Trustee on the ASFPM Foundation. (Additional biography information available from speaker.)

Travel expenses if outside greater Lansing area.)

- ASCE Branch or Section Meetings
- Community Groups
- Service Clubs
- Schools

Geotechnical Engineering: Lessons Learned

The speaker will describe geotechnical engineering, provide example of foundation systems, case histories of geotechnical failures, and lessons learned.

Mr. Robert C. Rabeler, P.E.
Soils & Materials Engineers
2663 Eaton Rapids Road
Lansing, MI 48911-6310
517-887-9181

Mr. Rabeler is Vice President and Principal at Soil & Materials Engineers. He has twenty-two years of professional geotechnical engineering experience in the Midwest, is the chair of ASCE's Peer Review Committee, and has published several papers on geotechnical engineering.

- ASCE Branch or Section Meetings
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Groundwater and Soils Remediation Systems: An Overview

This presentation gives a nontechnical overview of how contaminated groundwater and soil can be cleaned up. Mr. Susan will discuss levels of remediation and how this ties in with a variety of property reuses.

Mr. James A. Susan, P.E.
Fishbeck, Thompson, Carr & Huber, Inc.
6090 East Fulton
Ada, MI 49301
616-676-3824

Mr. Susan is an Associate of FTC&H and its Corporate Health & Safety Officer. He has over twenty-two years of engineering experience including hazardous waste and underground storage tank projects.

Fishbeck, Thompson, Carr & Huber, Inc. is a diversified engineering, scientific, and architectural firm with offices in Grand Rapids, Lansing and Kalamazoo.

- ASCE Branch or Section Meetings
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Changing Times for Storm Water Management

The presentation will be customized for the audience and could cover such topics as Storm Water Management, Watershed Planning and Management, and Storm Water NPDES Permits.

Mr. James E. Smalligan, P.E.
Fishbeck, Thompson, Carr & Huber
6090 East Fulton
Ada, MI 49301
616 676 3824

Mr. Smalligan is Vice President and Principal of FTC&H and is Civil Engineering Department Head. He serves as Chair of Associate Members for the Michigan Association of County Drain Commissioners and is on the Kent County Storm Water Management Task Force. Also, he is current past-President of the Michigan Section of the American Water Resources Association. Mr. Smalligan has over twenty years of experience and is a graduate of the University of Michigan.

FTC&H is a diversified engineering, scientific, and architectural firm with offices in Grand Rapids, Lansing and Kalamazoo.

(West and Central Michigan)

- ASCE Branch or Section Meetings
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- Schools

Bike Paths and Pedestrian Walkways

A popular project in many communities, this presentation will cover A-Z based on recent hands-on experience. Topics such as funding, permits, right-of-ways, etc. will be discussed.

Mr. Brian G. Vilmont, P.E.
Fishbeck, Thompson, Carr & Huber
6090 East Fulton
Ada, MI 49301
616-676-3824

Mr. Vilmont has ten years of experience in civil engineering design and construction. He recently helped Cascade Charter Township develop sixteen miles of pedestrian walkway and bicycle paths. Also, he attended the Northwestern University Traffic Institute's Bicycle Facility and Design Workshop. Mr. Vilmont received his Civil Engineering degree from Michigan Technological University.

Mr. Vilmont is a civil Project Team Leader at Fishbeck, Thompson, Carr & Huber, Inc. one of Michigan largest consulting and design firms. FTC&H is a diversified engineering, scientific and architectural firm with offices in Grand Rapids, Lansing and Kalamazoo.

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Kirtland's Snow/Wetlands Treatment System

Wastewater treatment options for all climates. Innovative wastewater treatment facility uses a combination of wetlands in the summer and snowmaking in the winter.

Mr. John Ernst, P.E.

Wade-Trim, Inc.

271 West McCoy Road

P.O. Box 618

Gaylord, MI 49734

517 732 3584 or 800 968 4440

Mr. Ernst, Associate, is a client manager and project engineer for Kirtland Community College's wastewater treatment facility. He joined Wade-Trim in 1988 and is a nationally certified forensic engineer, as well as a licensed civil and structural engineer.

(M-55 and north.)

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Civil Engineering Education and Its Accreditation

Engineering education and its curricula are rapidly changing. Society and the profession are demanding this change. The accreditation criteria against which civil engineering programs are compared have been radically altered so colleges can flexibly meet these new demands.

Mr. Wayne Bergstrom, Ph.D., P.E.

NTH Consultants

38955 Hills Tech Drive

P.O. Box 9173

Farmington Hills, MI 48331

248-553-6300

Dr. Bergstrom is a civil/geotechnical engineer with more than twenty-one years of experience in industrial, governmental, and private consulting practice. He is currently a project consultant with NTH Consultants, Ltd. of Farmington Hills, MI. He is an experienced civil engineering program evaluator, having served on various ABET accreditation teams. He is also a current member of the ASCE Committee on Curricula and Accreditation.

(Partial direct expense reimbursement appreciated.)

- ASCE Branch or Section Meetings
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Is Bottled Water Really Better?

Prein & Newhof conducted a study to compare the quality of bottled water from store shelves with municipal water from Grand Rapids, Kalamazoo, and Big Rapids. Laboratory test of each sample, for a variety of parameters, found one significant difference between bottled and municipal water. Can you guess what that is?

Mr. Thomas Newhof, P.E.

Prein & Newhof

3355 Evergreen Drive, NE

Grand Rapids, MI 49525

616 364 8491

Mr. Newhof is President of Prein & Newhof, a 110-person consulting engineering firm located in Grand Rapids. He is a past president of the Michigan Section of the American Water Works Association, and is a part-time professor of environmental engineering at Calvin College.

(West Michigan preferred, no fees within seventy-five miles of Grand Rapids.)

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Are You Drinking Your Neighbor's Sewage?

Dramatic population growth from core urban areas, beyond the suburbs to previously undeveloped rural areas far from the urban core, has potential groundwater quality and environmental ramifications. This presentation details some of the trends behind the population shift to rural areas, and exposes some long-held fallacies about the effects of rural growth on the environment in areas not served by public water and sewer utilities.

Mr. James R. Hegarty, P.E.

Prein & Newhof

3355 Evergreen Drive, NE

Grand Rapids, MI 49525

616-364-8491 or jhegarty@preinnewhof.com

Mr. Hegarty is a Project Manager and Manager of Business Development with Prein & Newhof, a Grand Rapids-based engineering firm with 110 employees and regional offices in Muskegon, Byron Center, Kalamazoo and Holland. He also represents several small, growing, rural townships in northern Kent County on issues involving land development.

Jim is a 1977 Civil Engineering graduate of Ohio State University, and is a resident of Grand Rapids. He is a Fellow in the American Society of Civil Engineers, where he serves on the Board of Directors of the Michigan Section; a member of the National Society of Professional Engineers; a member of the Diocesan Board of Education of the Catholic Diocese of Grand Rapids; and serves on several church and school committees at Blessed Sacrament Parish in Grand Rapids.

(West Michigan preferred.)

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The First Professional Degree

The latest news from the ASCE Educational Activities Committee. This group originated the First Professional Degree policy statement and is developing a promotional plan to gather support from both inside and outside the organization. The committee is responsible for all educational activities of civil engineers through graduate school.

Mr. Richard O. Anderson, P.E.
Somat Engineering, Inc.
26445 Northline Road
Taylor, MI 48180
734-946-4966

Mr. Anderson is President and Chief Operating Officer of Somat Engineering, Inc., a geotechnical, geoenvironmental, and materials testing firm. He has over twenty-six years of experience as a geotechnical engineer. With great interest in education, he currently serves on the Industrial Advisory Board, College of Engineering, Michigan Technological University; the Professional Advisory Board, Department of Civil and Environmental Engineering, Michigan State University; and the Industrial Advisory Committee, Department of Civil Engineering, Lawrence Technological University. He chairs ASCE's Educational Activities Committee and is a member of the Board of Directors of the Accreditation Board for Engineering and Technology.

Among the numerous honors he has received are ASCE's Engineer of the Year and being named to Michigan Technological University's Academy of Civil and Environmental Engineers.

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Legal Issues Concerning the Construction Industry

Contemporary design and construction issues, including ethics in engineering practice, contract liability legal trends in design professional liability, contract claims, disputes and resolution, controlling risks, etc.

Mr. Thomas M. Keranen, P.E.

Federlein & Keranen, P.C.

6895 Telegraph Road

Bloomfield Hills, MI 48301

248-647-9653

Mr. Keranen received his degree in civil engineering from Michigan Technological University in 1972, a masters degree from the University of Michigan in 1976, and a law degree from Detroit College of Law in 1981. He is a member of the Michigan, Florida, and Wisconsin State Bar Associations, as well as many other various local and federal affiliations. Prior to practicing law, he worked in various engineering and construction capacities, including planning, development, and administration. Since entering law, he has been involved in construction litigation and private development projects. He has presented before many legal and engineering groups, and major universities on legal issues involving the construction industry.

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GIS as a Planning Tool

Nearly all communities can benefit from using geographic information systems (GIS). A GIS provides a link between database tabular information and the spatial data shown on maps. It supports the decision-making process for planning activities involving land use, soils, zoning, property ownership, and utilities. It is an economic aid for day-to-day tasks such as emergency response systems, public hearing notifications, utility maintenance, and site selection and analysis.

Michelle C. Lazar, P.E.

Fishbeck, Thompson, Carr & Huber, Inc.

6090 East Fulton

Ada, MI 49301

616 676 3824

Ms. Lazar has over sixteen years of civil engineering experience and currently serves as Geographic Information Systems (GIS) Coordinator for FTC&H. She has worked with villages, cities, townships, utility directors, and county drain commissioners using GIS to meet a variety of information needs.

Fishbeck, Thompson, Carr & Huber, Inc. is a diversified engineering, scientific and architectural firm with offices in Grand Rapids, Lansing, and Kalamazoo.

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Mentoring and Teamwork

Mentoring: one effective method of assisting younger members with their professional development in an organization is to have an experienced person serve as a mentor to provide insight and guidance. The speaker will describe what comprises a corporate mentoring program along with some do's and don'ts.

Teamwork: an essential element of project management, efficiency productivity, and corporate health and success. The speaker will present elements of teamwork using a unique interactive video and perspectives of actual work experiences.

Mr. Larry P. Jedele, P.E.

Soil and Materials Engineers, Inc.

43980 Plymouth Oaks Boulevard

Plymouth, MI 48170

734-454-9900

Mr. Jedele is Principal and Manager - Geotechnical Services of Soil and Materials Engineers, Inc. (SME) a geotechnical, materials, and geoenvironmental engineering firm. He has over twenty-six years of experience as a geotechnical engineer and is the corporate mentoring program coordinator at SME. He is a past officer and president of the Ann Arbor Branch of ASCE and the Michigan Section of ASCE and serves as chairman of the District 7 Council of ASCE. (Additional biography information available from the speaker.) Mr. Jedele has received the honors as Civil Engineer of the Year from the Ann Arbor Branch of ASCE and the Michigan Section of ASCE.

(All of Michigan and northern Ohio.)

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Water Treatment: Traditional to Innovative Technology

How does a community select the best technology for its drinking water? This presentation will review the basic pros and cons of available treatment processes and touch upon developing technologies geared toward meeting future regulatory limits.

Michael L. Peters, P.E., Vice President
Fishbeck, Thompson, Carr & Huber, Inc.
6090 East Fulton
Ada, MI 49301
616-676-3824

Mr. Peters has been active in the water treatment industry for nearly twenty-five years. FTC&H is one of the leading water treatment design firms, having been the first to implement both direct filtration and microfiltration technologies in Michigan. He is active in the American Water Works Association, American Society of Civil Engineers (a past state president), Michigan Society of Professional Engineers, and Water Environment Federation.

Mr. Peters is Principal and Vice President at Fishbeck, Thompson, Carr & Huber, Inc., one of Michigan's largest consulting and design firms. FTC&H is a diversified engineering, scientific, and architectural firm with offices in Grand Rapids, Lansing and Kalamazoo.

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Bridges: From Concrete to Computers

The audience will learn about the many types of bridges and the materials used to build them. The use of computers to design bridges will be demonstrated.

Mark T. Lessens, P.E., Associate
Fishbeck, Thompson, Carr & Huber, Inc.
6090 East Fulton
Ada, MI 49301
616-676-3824

Mr. Lessens has over fifteen years of engineering experience. Most recently, his efforts have focused on the evaluation, design, and construction of bridges, working with MDOT, municipalities, and road commissioners. As leader of FTC&H's Bridge Design Group, he has been responsible for scoping over 200 Michigan bridges and the design of nearly thirty-five bridges. Fishbeck, Thompson, Carr & Huber, Inc., is a diversified engineering, scientific, and architectural firm with offices in Grand Rapids, Lansing and Kalamazoo.

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High Performance Concrete Pavement:

Where Are We?

A talk about the state-of-the-practice as it refers to High Performance Concrete Pavement.

Neerat Buch, Ph.D.
Michigan State University
517 432 0012

Dr. Buch received his doctorate degree in Engineering from Texas A&M University in 1995. He is an assistant professor in the Department of Civil and Environmental Engineering at Michigan State University. Dr. Buch has over ten years of industrial, research, teaching, and outreach, as well as concurrent consulting experience. He serves on ACI Committee 325 (Rigid Pavement) and is a task force chairman of ACI Committee 325-34 on Concrete Pavement Repair and Rehabilitation. In the past three years, Dr. Buch has taught several outreach classes in the area of pavement design, rehabilitation, and management through the Highway Traffic and Safety Program (HTSP). The objectives of these classes are to disseminate technical information to SHA, Road Commissions, and consulting engineers.

(Prefers the I-96 corridor)

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Michigan's Top Ten Civil Engineering Projects of the 20th Century

The Michigan Section of the American Society of Civil Engineers membership voted for the top ten civil engineering project of the 20th Century late in 1999. This lively and interesting presentation tells many interesting stories and the history associated with each of the top ten projects. Projects include:

Ambassador Bridge
Detroit Wastewater Treatment Plant
Detroit-Windsor Tunnel
Ford Motor Company's Rouge Complex
Interstate Highway System
Ludington Pumped Storage Facility
Mackinac Bridge
Monroe Avenue Water Filtration Plant
Soo Locks
St. Clair River Railroad Tunnel

Mr. James R. Hegarty, P.E.
ASCE Michigan Section President-Elect
c/o Prein & Newhof
3355 Evergreen Drive, NE
Grand Rapids, MI 49525
616-364-8491 or jhegarty@preinnewhof.com

This topic may be presented by any number of civil engineers statewide. Contact Mr. Hegarty to arrange a presentation for your group.

- ASCE Branch or Section Meetings
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- Schools

Erosion Control – Approach & Performance

Storm water runoff from construction sites can have little to no sediment impact on receiving water resources — provided the designer is capable of preparing a comprehensive erosion control plan. This presentation or multiple presentations can cover a broad spectrum of related erosion control topics or be focused on a single problem/solution subject. Suggested topics include: 1. Detailed reviews of BMP's, 2. Erosion control plan structure — principles that result in performance, 3. Specification preparation in the non-standardized discipline of erosion control, 4. Delineated problem and solution couplings and 5. Developing Michigan's infrastructure to achieve surface water quality improvement. Regardless of topic or subject chosen, the presentation will deliver practical, understandable information.

Mr. John T. Price, PE, CPESC
Price and Company, Inc.
425 36th Street, SW
Wyoming, MI 49546-2108
T:616.530.8230
F:616.530.2317
E: geoprojp@priceandcompany.com

John is the President of Price and Company, Inc., a distribution company focused on supplying Michigan's construction and agricultural industries with erosion control products/systems and geosynthetics. He has over twenty years of experience as a consultant, marketing engineer and distributor working with these products/systems throughout the United States. John is a Member of the ASCE, North American Geosynthetics Society and International Geosynthetics Society. Currently, John serves on the Board of Directors [Administrative VP] of the International Erosion Control Association.

Geosynthetics – Optimization and Know-How

Geosynthetic use is commonplace for many Civil-site applications. However, construction industry reports and analysts suggest that less than 5% of those projects that would economically benefit from the use of geosynthetics deploy these versatile materials. This presentation or presentation series can cover a broad spectrum of topics, empowering designers to confidently utilize geosynthetics and optimize their performance benefits. Customized topics might include 1. Road structure improvement using geosynthetics, 2. Selecting geosynthetic types based on performance needs, 3. Using geosynthetics to create steep embankments, 4. Relating filtration/separation characteristics to application needs, 5. Counteracting the difficulties of weak and compressible soils with geosynthetics, and 6. Preparing functional product specifications. Regardless of topic or subject chosen, the presentation will deliver practical, understandable information.

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John is the President of Price and Company, Inc., a distribution company focused on supplying Michigan's construction and agricultural industries with geosynthetics and erosion control products. He has over twenty years of experience as a consultant, marketing engineer and distributor working with these products/systems throughout the United States. John is a Member of the ASCE, North American Geosynthetics Society and International Geosynthetics Society. Currently, John serves on the Board of Directors [Administrative VP] of the International Erosion Control Association.