



ASCE American Society of Civil Engineers

WISCONSIN SECTION NEWSLETTER MAY 2003

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President's Message

Greetings!

Before I get started on the dull and mundane portion of my message (some may argue it is all dull and mundane), let me congratulate the 2003 Spring Technical Conference Committee for organizing a great conference. Co-chairs Rich Schneider and Mark Meyers, the rest of their committee, and the Technical Committee Chairs put together such a strong lineup of speakers and topics, it was standing room only at many of the sessions. (Special note to the Committee: Despite the great job you did, you do not get to keep any surplus from the meeting!)

In addition, National President-Elect Patricia Galloway provided a thought provoking, inspirational speech highlighting ethics and professionalism of civil engineers during her evening address to the Section. Judging by the standing ovation she received from those in attendance, I would say her address to the Wisconsin Section was very well received.

Part of Ms. Galloway's presentation was a call for all civil engineers to join the Order of the Engineer. Membership in the order is open only to licensed engineers or graduates of a degree program approved by the Accreditation Board for Engineering and Technology. Those who take the oath promise to "practice integrity and fair dealing, tolerance and respect," to uphold "the standards and dignity of (their) profession," and "to serve humanity by making the best use of Earth's precious wealth."



For more information about the Order of the Engineer, visit its Web site (www.order-of-the-engineer.org).

By the time you read this, we will already have held the release of the Report Card on Wisconsin's Infrastructure at the State Capitol. You should also have received a mailing giving a brief overview of the Report Card with the web address

http://sections.asce.org/wisconsin/wi_asce.html

telling where to review or download the entire Report Card.

Prior to that, members of the report card committee testified before the Wisconsin Assembly Committee on Highway

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President's Message (Continued from page 1)

Safety. Although it wasn't a portion of our presentation, the Committee was very interested in possible funding mechanisms that could be used to bring funding to the recommended levels. They also showed great interest in the interrelationships between infrastructure and commerce in Wisconsin.

I must reemphasize the release event is just the beginning of our effort on the Report Card. After its release, I encourage you to speak to local community organizations or business groups about the Report Card. The Public Relations Committee has prepared a PowerPoint presentation that will be available for any Section member to use to present a "local" perspective on the infrastructure areas that have been evaluated. Remember, the closer you can bring this to your community, the greater effect we can have as a state to impact and influence legislation to improve infrastructure.

It is encouraging to note requests for presentations on the Report Card have already been received from interested local organizations. I urge each of you to help spread the word.

Remember to mark your calendars for the Annual Meeting to be held September 19, 2003 at the Olympia Resort in Oconomowoc. Chair Peter Nilles and his committee are in the process of securing speakers and topics that will ensure a memorable meeting. I encourage all Section members to make that extra effort to attend. I hope to see you there!

Respectfully, Carl Sutter

WANTED

Your Articles, Comments, Photos, and Letters for publication in this ASCE Newsletter
Anything civil, interesting and primarily factual may be submitted to:

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nedp@madsewer.org
Madison Metropolitan Sewerage District
1610 Moorland Road
Madison, WI 53713
Phone: (608) 222-1201 ext. 257
Fax: (608) 222-2703
Deadline for next issue: July 15, 2003

Visit The Website

The ASCE Wisconsin Section website offers a wealth of information about our section. Our thanks to Mr. Martin Hanson, webmaster extraordinaire, for volunteering his time and talents. Current events, newsletters, contacts, email addresses, board meeting minutes, and much more are waiting for you. Check us out at:

http://sections.asce.org/wisconsin/wi_asce.html

WICONSIN SECTION ANNUAL MEETING

The 2003 Wisconsin Section Annual Meeting is scheduled for Friday, September 19 at the Olympia Resort and Conference Center in Oconomowoc. The Annual Meeting Committee has formed and preparations are underway. Technical committees are expected to coordinate with the Annual Meeting Committee regarding speakers and topics for the technical sessions. If you have suggestions regarding sessions, speakers or activities, please contact Peter Nilles at (414) 359-2300 or pnilles@hntb.com. Be on the lookout for future announcements regarding registration, speakers and other details of the event.

ASCE SOUTHEAST BRANCH GOLF TOURNAMENT

Date: Friday, May 16, 2003

Time: Tee times begin at 11:30 a.m.

Place: Naga-waukee Golf Course, Delafield, WI

Cost: 18 holes: \$62 with cart, \$47 walking

9 holes: \$39.50 with cart, \$31.50 walking

Format: Callaway Handicap System

Prizes, and More. Individual golfers welcome.

To register, contact: Todd Paider (262) 513-5460

paider@jensconstruction.com

HAS YOUR ADDRESS CHANGED?

Our ASCE Wisconsin section has about 1,966 members. And, in a given year, about 100 of these mailing addresses tend to be in flux (yes, that was a term from fluid mechanics..) Please keep ASCE informed of your current address. You can do-it-yourself at **www.asce.org/myprofile**. Or call (800) 548-2723. Thanks.

2003 REPORT CARD ON WISCONSIN'S INFRASTRUCTURE



**AMERICAN SOCIETY OF CIVIL ENGINEERS
WISCONSIN SECTION**

Subject	WI Grade	National Grade	Comments
Roads	C-	D+	Wisconsin's State Highway Plan 2020 has been established to improve safety, maintain pavement condition, and relieve congestion. Current funding levels are falling significantly below plan recommendations. Without additional funding, this grade will decrease in the future.
Bridges	B-	C	Approximately 20% of Wisconsin's bridges are in need of replacement or rehabilitation. This represents a significant improvement over the last twenty years. Additional funding beyond current levels will be needed to continue reducing the backlog of deficient bridges.
Transit	C+	C-	Wisconsin Urban Transit Systems consistently perform above the national average when compared to systems in cities of similar size. Operating costs continue to rise, however, while ridership is declining, creating pressure to increase fares and/or reduce services.
Airports	C+	D	Major airports in Wisconsin currently have adequate capacity to meet projected passenger traffic. The system needs for all Wisconsin airports are, however, significant. Increases in current funding levels are critical to address pavement and navigational needs.
Public Schools	C	D-	50% of Wisconsin's schools are more than 40 years old. 57% report maintenance budgets as "less than adequate" to raise the overall condition of schools to "good." An estimated \$1.6 billion in additional funding is needed to bring the state's K-12 public schools to "good condition".
Drinking Water	C+	D	The existing condition of Wisconsin's water supply infrastructure is good. However, new regulatory standards for water quality, combined with declining groundwater levels and aging treatment facilities, will require more than \$3.0 billion over the next 20 years.
Municipal Wastewater Facilities	B+	D	Wisconsin's municipal wastewater collection and treatment facilities have a good record of compliance and planning for the future. An increased investment will be required to maintain the system and address pending new regulations.
Rivers and Dams	D	D	Wisconsin's floodplain ordinances and codes are well designed, but the stock of floodplain hazard maps is old and growing more outdated each year. Dams are not being inspected as required and repair grants have been curtailed due to lack of funding. Dam Safety rules need to include dam structures that are currently unregulated.
Stormwater	C+	N/A	Half of Wisconsin's communities do not have a regular maintenance program for storm sewers and catch basins. Wisconsin communities will be facing significant funding shortfalls as replacement of aging sewers becomes necessary and as new stormwater quality regulations are implemented.
Solid Waste	B	C+	Existing solid waste landfills are well designed and have sufficient disposal capacity. Currently, more than one-third of municipal solid waste is recycled.
Contaminated Sites	C+	D+	While Wisconsin has proactively encouraged cleanup of contaminated sites, thousands of sites still require remediation. Remediation costs for these sites will require funding in the billions of dollars. Local governments will need to become more active in redeveloping contaminated properties.
Energy	C	D+	Wisconsin energy supplies are adequate at this time. However, capacity shortages could be experienced by 2007 if no new plants are constructed. Transmission capacity for natural gas and electricity is inadequate.

<p>Wisconsin's Infrastructure Overall Grade = C+</p> <p>Nation's Infrastructure Overall Grade = D</p> <p>Prepared by: American Society of Civil Engineers, Wisconsin Section</p>	A = Exceptional	<p>Each category was evaluated on the basis of condition and performance, capacity vs. need, and funding vs. need.</p>
	B = Good	
	C = Fair	
	D = Poor	
	F = Inadequate	

Nominated Candidates for ASCE Wisconsin Section Board Positions

President-Elect: Ned W. Paschke, P.E.

Ned Paschke has served ASCE in many roles, including President of the Southwest Branch, Wisconsin Section Vice President, student mentor, nominations committee member and chair, and other positions. Ned earned his Bachelors and Masters degrees in Civil and Environmental Engineering at the University of Wisconsin – Madison. Ned is the Director of Engineering for the Madison Metropolitan Sewerage District. His department provides the planning, analysis, design and construction management services for MMSD projects including treatment facilities, pumping stations, forcemains, and gravity interceptors. Prior to joining MMSD, Ned was a member of the hydraulic analysis and design group at Harza Engineering Company in Chicago.

Ned's interests include many facets of applied hydraulics, wastewater, water resources and management. He is a frequent presenter of short course lectures and workshops at the University of Wisconsin-Madison, and has enjoyed speaking about China's Yangtze River and Three Gorges Dam to civic and professional groups, including ASCE. Ned also enjoys traveling, bicycling, and music, and claims to be one of the few sewage engineers that play the violin. Ned and his wife Tammy live in Madison with their three sons.

Vice President: Steven L. Peterson, P.E.

Steve Peterson is a Senior Project Manager and Department Manager in Earthtech's National Design Center for Global Environment and Water Services in Sheboygan. Mr. Peterson received his BSCE from UW-Platteville and is registered as a professional engineer in Wisconsin and Kentucky. He has served as a Director at Large, Branch Director and chair of the Environmental Technical Committee for the ASCE Wisconsin Section. In addition, Mr. Peterson served as Director, Secretary/Treasurer and President of the Fox River Valley Branch. While attending UW-Platteville, he served as co-chair of the speaker committee for the ASCE UWP Student Chapter. Mr. Peterson is also a member of the Water Environment Federation, American Water Works Association, and Technical Association of the Pulp & Paper Industry (TAPPI). He is active in his local community with the Sheboygan Chamber of Commerce and Sheboygan Elks Lodge.

Director at Large: Ernest J. Peterson, P.E.

Ernest Peterson is the Utility/Access Management Engineer for the Wisconsin Department of Transportation. He has spent his entire professional career working at WisDOT, starting as a project engineer in design and construction at the Green Bay District Office. He later transferred to the Madison District Office where he served as Design Supervisor until 1996 when he moved into his current position. He has a bachelor's and a master's degree in Civil and Environmental Engineering from UW-Madison, and a master's degree in Management from Cardinal Stritch College. Ernie is an active ASCE member and has served as Director and Arrangements Chair of the Southwest Branch.

Director at Large: Darrell J. Berry, P.E.

Darrell Berry is a Principal Engineer in the Milwaukee office of Bloom Consultants, LLC, and serves as Senior Project Manager on various transportation and bridge projects. He is also the Transportation and Construction Department Manager. He has over 30 years of consulting engineering experience, including over 19 years in Wisconsin. Darrell received a BS degree in Civil Engineering from the University of Wisconsin-Madison, and an MS degree in Civil Engineering from the University of Illinois-Urbana/Champaign. He is a registered professional engineer in five states including Wisconsin, and a registered structural engineer in Illinois. He is also certified as a Value Methodology Practitioner by the Society of American Value Engineers (SAVE) International.

Darrell has been active in ASCE throughout his career. In his college days, he was vice president of the ASCE student chapter at the University of Wisconsin-Madison for two years. In his professional career, he served as the chairman of the Wisconsin Section Structural Technical Committee for three years in the 1980s. He then served three years as Secretary of the Southeast Branch, followed by serving as vice president and president of the Branch. Following those terms, he served as Secretary of the Wisconsin Section from 1994 to 1996. Darrell received the 1998 Wisconsin Section ASCE Merit Award for Engineer in Consulting Practice. He recently completed the four year presidency cycle, having served as president of the Wisconsin Section in 2001.

SCENES FROM THE ASCE SPRING TECHNICAL CONFERENCE
SPRING GREEN RESORT
MARCH 27, 2003

An eloquent speaker, National ASCE President-Elect Patricia Galloway addresses the members of the Wisconsin Section in Spring Green.



Current Wisconsin Section President Carl Sutter and Past-President Fred Groth celebrate another "Outstanding Large Section" Award from ASCE National.

The World Trade Center Building Performance Study was presented to a packed house at the opening session of the Spring Green conference.



ASCE National Update

by Nick Textor and Tom Eggum, ASCE District 8 Directors

In January, the Board of Directors and most national level committees met in San Diego. A lot of hot society business went on in the cold San Diego weather. Some of the issues were further discussed at the Zone III meeting in Dallas in February. Here are some highlights:

- **National Security** - ASCE took the early lead on the technical response to infrastructure damage following 9/11 terrorism. The society leads three related initiatives: the Critical Security Response Initiative (CIRI), The Infrastructure Security Partnership (TISP), and the Infrastructure Security Professional Advisory Network (I-SPAN). Reports are now available for both the World Trade Center and the Pentagon. For more information, see <http://www.asce.org/professional/diversity/> and www.tisp.org.
- **Global Influence** - We live in a shrinking world. Economically and technologically, countries are becoming more interdependent. ASCE's influence in spreading engineering knowledge, particularly related to standards, can markedly affect quality of life around the globe. The society can benefit in return by membership and sale of publications; and members can benefit from increased private business opportunities overseas. The International Activities Committee guides a wide range of ASCE programs with worldwide impact.
- **Diversity** – ASCE's increasingly diverse membership brings more varied skills and experience -and therefore more value- to our work. Globalization will only increase our exposure to different cultures. It is important to welcome and utilize this growing capacity effectively. The Committee on Diversity and Women in Civil Engineering leads society efforts to do this.
- **Society Governance** - Our national board structure is one of those areas that both of us feel strongly about. ASCE is governed by an archaic board structure and process. There are currently 28 members on the board. For the past two years, Nick has been serving on the Governance Committee, working to create a smaller, more focused board. The current draft proposal would reduce the number of directors to 17 -- much more like a business board than like a legislature. Regions could replace zones and districts with regional governors guiding the national director and serving on national committees. The committee is open to your feedback.

More information is available on ASCE's website at www.asce.org/governance or by contacting Nick. His email address is below.

- **The Task Committee on Academic Pre-requisites for Professional Practice (TCAP3)** - This group's work may be the most important -as well as the most controversial- issue that ASCE is grappling with. Civil engineering has become more complex and more demanding over the past decades. At the same time, graduation requirements have, in general, lessened. In dealing with this, a national committee chaired by Jeff Russell from Wisconsin is working to identify the necessary "Body of Knowledge" and the kind of training and experience that practicing engineers will need. The committee is thinking that a masters degree or 30 additional credits beyond a bachelors degree will be needed in the future. They are suggesting that this extra training may appropriately include a practitioner's bias in addition to the more traditional research-focused graduate work. This is a very forward looking initiative, with a target year of 2025, and the committee is very interested in hearing from any member with an opinion. More information is available at <http://www.asce.org/professional/educ/tcap3ppt.cfm>
- **Institute Operating Procedures** - Transition from technical committees to institutes began in 1995 and is intended to make ASCE's technical activities stronger and financially self-sustaining. This major restructuring was done for several reasons. Two important ones are (1) Most civil engineers belong to ASCE for its services in technical areas - the 'hard core' of civil engineering- like structures, hydraulics, geotechnical, etc; (2) For many engineers, other organizations offer competing services in these areas. Structural engineers, for example, have multiple organizations that offer them similar programs. ASCE institutes attempt to unite these efforts. So far, there are seven institutes: the Architectural Engineering Institute (AEI), the Construction Institute (CI), the Coast, Oceans, Ports & Rivers Institute (COPRI), the Environmental and Water Resources Institute (EWRI), the Geo-Institute (G-I), the Structural Engineering Institute (SEI), and the Transportation & Development Institute (T&DI). More information is available at ASCE's website at <http://www.asce.org/instfound/>
- **Finances** - ASCE is a learned professional society. It is also a business. It cannot succeed long at the for-

Reminder: Time is Running Out
for the annual
ASCE AWARDS COMPETITION!

Do you know of a fellow Wisconsin civil engineer who has made outstanding contributions to his/her field? Or a successful engineering project that deserves recognition? Consider making a nomination for one of our ASCE Wisconsin Section Awards:

Individual Merit Awards:

- *Distinguished Service Award*
- *Engineer in Education*
- *Engineer in Consulting Practice*
- *Engineer in Government Service*
- *Engineer in Private Practice (Utility, Industry)*
- *Excellence in Journalism Award*
- *Young Civil Engineer of the Year Award (must be less than age 35 during 2002)*

Engineering Achievement Awards:

The Engineering Achievement Awards recognize outstanding civil engineering projects located in the Wisconsin Section's geographical area. Project nominations are considered in four categories:

Category A: Construction cost under \$2 million

Category B: Construction cost \$2 million to \$10 million

Category C: Construction cost \$10 million to \$20 million

Category D: Construction cost over \$20 million

Award nominations are due to the section secretary, Jim Buggs, by June 1, 2003.

Awards are made by the Board of Directors, based on the recommendation of a selected Jury of Judges. One project, regardless of category or size, may then be designated the Wisconsin Section ASCE Outstanding Civil Engineering Achievement of the Year.

Award winners will be given the opportunity to provide a poster and presentation at the Annual Meeting in September.

There is a \$100 entrance fee for the Engineering Project Achievement Awards. There is no entrance fee for the Individual Merit Awards.

For more information, log on to our section website at http://sections.asce.org/wisconsin/wi_asce.html.

National Update (continued from page 6)

mer without being good at the latter. ASCE depends on a variety of income sources to pay expenses. One major source has been society investments, and these have suffered with the economy. And, spending on important programs and services did not contract fast enough to match our lowered income. At our winter meeting, the board acted to rebalance the Fiscal 2003 budget, and appropriate strong actions were then quickly taken by our new Executive Director, Pat Natale. ASCE is currently financially healthy and will stay that way.

If you have questions or comments about ASCE national, please contact either of us. Nick at nick.textor@cte-eng.com or Tom at tje110@aol.com.

2003 WSPE DISCOVERY CONFERENCE

May 8,9,10

Midway Hotel, Green Bay

Featuring 2003 Engineering Showcase:

Lambeau Field Redevelopment

Keynote Speakers from Turner Construction
& Packer COO John Jones

Plus: Lambeau Field Tour, Impact of 9/11 on Engineering, Engineering the Magic (Disney), Terrorist Attack on a Nuclear Plant, Making the Internet Work for You, Use of Ethernet for Factory Automation, and the New Resch Center (incl tour).

For more Information, check out www.wspe.org or Call Jay Froming at 920/433-1605

May 2003 Newsletter

c/o: Ned W. Paschke, P.E.
 Madison Metropolitan Sewerage District
 1610 Moorland Road
 Madison, Wisconsin 53713

Wisconsin Section Board Meetings

Nov. 13, 2002	Neenah
Dec. 12, 2002	Milwaukee
Jan. 15, 2003	Madison
Feb. 2003	No Meeting
Mar. 27, 2003	Spring Green
Apr. 15, 2003	Wausau
May 22, 2003	Milwaukee
June 19, 2003	Madison
July 2003	No Meeting
Aug. 14, 2003	Neenah
Sept. 18, 2003	Oconomowoc

Southeast Branch Meetings

Nov. 14, 2002	West Allis, dinner with ACI
Dec. 19, 2002	Marquette Univ., lunch w/ ESM
Jan. 22, 2003	UWM, scholarship fundraiser dinner
Feb. 11, 2003	Milwaukee, Engr.-of-Year banquet, with ESM
Apr. 17, 2003	Marquette Univ., lunch w/ ESOM
May 15, 2003	Lunch meeting
Jun. 19, 2003	Dinner, location TBA, past-presidents and spouses night
July, 2003	Field trip, TBA
Aug., 2003	No meeting
Sept. 19, 2003	Annual Meeting, Oconomowoc

*TBA = to be announced

Fox River Valley Branch Meetings

Dec. 2002	No meeting this month
Jan. 16, 2003	Manitowoc
Feb. 19, 2003	Appleton
Apr. 22, 2003	Oshkosh
May 21, 2003	Green Bay, Golf Outing
Sept. 19, 2003	Annual Meeting, Oconomowoc

NW Branch Meetings

Nov. 19, 2002	East side of branch
Jan. 24, 2003	Eau Claire, with WSPE
Feb. 18, 2003	Mosinee/Rothschild
Mar. 13, 2003	Lacrosse
Apr. 15, 2003	East side, with Wis. Sect. Board
May 23, 2003	Social event
Sept. 19, 2003	Annual Meeting, Oconomowoc

Southwest Branch Meetings

Nov. 21, 2002	Dodgeville, with UW-Platteville
Dec. 19, 2002	Essen Haus lunch mtg.
Jan. 23, 2003	Essen Haus lunch mtg.
Feb. 20, 2003	Joint w/ WSPE
Mar. 27, 2003	Spring Green Tech. Conference
Apr. 23, 2003	Dinner meeting
May, 2003	TBA
Sept. 19, 2003	Annual Meeting, Oconomowoc