

JANUARY 2003

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2002 / 2003**

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**American Society
Of Civil Engineers**

North Jersey Branch Newsletter

2003 STRUCTURAL GROUP DINNER MEETING

THE PRESERVATION OF FALLING WATER



Falling Water, designed in 1935 for the Edgar J. Kaufmann family of Pittsburgh by Frank Lloyd Wright, was in 1991 voted as "the best all-time work of American architecture" by the members of the American Institute of Architects. It is a supreme example of Frank Lloyd Wright's concept of organic architecture, which promotes harmony between man and nature through design so well integrated with its site that buildings, furnishings, and surroundings become part of a unified, interrelated composition.

A 65-year period of deflection and cracking at Falling Water defines a troubled structural history with problems becoming apparent even before the construction was completed. This seminar will provide an overview of the history of the structure, flaws/problems, and measures taken for the stability and preservation of the structure.

Speaker: Mr. John A. Matteo, P.E., an Associate with Robert Silman Associates, leads the restoration and preservation efforts in the company's Washington DC office. Mr. Matteo has extensive experience with historic building materials and structural systems, and works towards creative solutions for restructuring or strengthening within a sensitive historical context. He is President of the Association for Preservation Technology – DC Chapter for the year 2003 and a Member of the International Association for Preservation Technology. He has worked on numerous projects over the years and currently serves as project manager for the structural repairs at Falling Water.

Date: Thursday, January 23, 2003

Time: Reception begins at 5:30 PM, Dinner & Presentation to follow.

RSVP To:

Paul Emelius
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pemiliusjr@geodcorp.com

LOCATION:

The Radisson Hotel
Route 46 East
Fairfield, NJ
(973) 227-9200

COST:

Members: \$45
Non-Members: \$45
Students: \$20

**RESERVE BY
TUESDAY, JANUARY
21st!**

Checks should be payable to "ASCE – North Jersey Branch"

For more info, check out this link: www.wpconline.org/fallingwaterhome.htm



PRESIDENT'S ADDRESS

Welcome to 2003! As the New Year begins, we already have many challenges ahead for us as civil engineers, as a critical source of federal funding is currently on the line. Last year, Congress adjourned without completing action on highway program funding for Fiscal Year 2003, which began on October 1, 2002. A temporary measure was approved to continue funding the highway program at the \$31.8 billion rate through January 11, 2003, but caps overall funding at \$27.7 billion. **This is a 13% cut from FY 2002.** Consider the following:

- A 13% cut will not only impact FY 2003 but it will also impact future funding as well. As Congress takes up TEA-21 reauthorization this year, the FY 2003 funding amount will be the starting point for funding calculations for the next six years.
- Every \$10 million in highway funding that a state loses will result in 470 jobs lost, further hurting an already sluggish economy. State DOT's will be forced to reduce the number of contracts that will be put out for bid.
- Highway Trust Fund balance **can** support \$31.8 billion in FY 2003 funding for the highway program.

What can you do? The 108th Congress convened on January 7th and discussions on highway funding and the 13% cut have started up again. Now is the time to contact your congressmen, and tell them to fund the highway program at \$31.8 billion. Visit ASCE's Internet Advocacy Website <http://www.asce.org/advocacy.html> to learn more on the issue. Use your six-digit ASCE member number for the "Name" and your last name for the "Password".

Based on your zip code, the website can tell you who your lawmakers are, and provide you with a sample letter and talking points to help you craft your own personal letter. Its always good to include any first-hand knowledge you have about specific benefits your community receives from federal highway funding - e.g. a new highway project or rehabilitation of a vital bridge.

So start the New Year off by getting involved in your profession and community, and contact your lawmakers to explain to them how the nation's highways are the lifeline of America's economy.

MEMBERS ON THE MOVE....

After spending 24 years in the private sector, **Al Handy, P.E.**, has been appointed to the position of Assistant Superintendent of Bridges for Warren County, NJ. He supervises a crew of 12 bridge repairmen that maintain, reconstruct or replace the approximately 960 various bridge structures within Warren County. He has been approved to sit for the Architect's Examination and is currently serving on the Smart Growth Technical Advisory Committee for Warren County, addressing the County's Master Plan. Al has been a past member of the ASCE Building Code Committee. In addition, Al has been elected to the Blairstown Township Committee for a three-year term. He can be reached at (908) 475-2781, or at sahandy@nac.net.

Each month's newsletter includes this column dedicated to the comings and goings of our Branch Members. We highlight the achievements, promotions, relocations and employment changes of our colleagues. If you, or someone you know, are a ASCE member and have news appropriate for this column, please forward the information to gmiddleton@tishman.com so that we can let our membership know about it.

The Construction Institute is hosting a regional seminar on construction trends and services in your



area. The scheduled date is January 29, 2003 in New York City. This one-day seminar will feature presentations on:

- Economic and demographic trends that influence construction;
- Business and operational applications of technology in construction;
- Current and proposed changes to the tax laws that affect contractors; and
- Alternate forums for resolving construction disputes.

The seminar begins at 8:00 AM with a continental breakfast and concludes at 1:30 PM. Registration is \$100 for ASCE/CI members, \$35 for full-time students, and \$125 for non-members. Please visit their website at <http://www.ConstructionInst.org> for more information or email ci@asce.org.

NORTH JERSEY TECHNICAL GROUPS

Join Us! Become a part of one of these groups and get involved with others in your field of interest. Whether you just want to help out, or if you have ideas & speaker contacts, we are always interested in new members and future leaders.

For more information, contact Ali Vaezi, Chair of the Technical Committees, at avaezi@dewberry-goodkind.com OR those listed below:

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National Engineers Week 2003 is fast approaching, and the planning and organization of the New Jersey Section's annual activities at the Liberty Science Center is in full swing.

This year, the North Jersey Branch's own Chris Coke (HNTB) has stepped up to take the lead in organizing this wonderful event. The Engineers Week Committee is looking for volunteers to donate their time and expertise to this great cause on Mon., Feb. 17 and Sat., Feb. 22. This year's theme is "Turning Ideas Into Reality". Join us for a half-day, full-day or both days. Even bring the family! Call us to find out the details.

Chris can be reached at coke@hntb.com or 973-237-1650. Also, for more info on E-Week go to <http://www.eweek.org>

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TIG FALL FIELD TRIP REPORT



Branch members pose in front of traveling formwork specially designed for the Bergen Tunnel Project

On November 16th, the Transportation Technical Group held their annual Field Trip. Following up on a presentation made by NJ Transit at last May's Seminar, and with rain in the forecast, the Group took cover at NJ Transit's Bergen Tunnel Rehabilitation project.

The Bergen Tunnel had long been plagued by water infiltration through the natural rock and through poorly designed ventilation shafts. During winter conditions, significant ice build up often lead to electrical failures.

Chuck Maliszewski, Project Manager for NJ Transit, delivered a PowerPoint presentation highlighting the aggressive around the clock construction schedule to update the tunnel to 21st century standards with the following additions: new electrical, emergency, signal and ventilation systems, new drainage, a concrete liner to replace the original brick liner, and a concrete floor with new direct fixation tracks to allow for a smoother ride.



After answering questions, both Chuck and NJ Transit's Construction Superintendent Jim Galvin led the group into the first-third of the tunnel. It was at this point that the Group was able to visualize all the progress that had been made.

The Transportation Technical Group wishes to thank the following people for making this event a success:

- Chuck Maliszewski – NJ Transit**
- Jim Galvin – NJ Transit**
- AJ Nayee – NJ Transit**



EMPLOYMENT POSTING

Water Supply Engineer: Northern New Jersey based ENR-ranked consultancy seeks experienced Civil Engineer with 2-5 years experience in Water Supply Engineering design including knowledge of drinking water regulations and planning. Experience with the design of water supply projects such as pump stations, pipelines, tanks, treatment facilities and related facilities is also a must as well as feasibility studies, design, permitting, construction administration and facility startup/testing. E-mail resume to: pa@ansara.com. Salary: 55-68k.

Is your firm or company seeking qualified candidates to fill valuable positions in today's demanding market? Please contact our Newsletter Editor, Gareth Middleton @ (973) 643-4007 or gmiddleton@tishman.com to obtain further information about advertising opportunities.



ON SALE NOW!

The Compendium of New Jersey's Top Ten Projects

As part of the celebration of the ASCE's 150th Anniversary in 2002, the New Jersey Section of ASCE has recognized the profession's rich heritage by awarding the Top Ten New Jersey Civil Engineering Projects. Last spring, after nominations were collected and reviewed, ten winners were chosen and presented with their awards at the 150th Gala Celebration held last spring.

A compendium was compiled to capture the accomplishments of these Top Ten projects and owners, as well as the 12 projects that received honorable mentions. The Compendium is a 40+ page, full-color document, which chronicles the history of NJ's most successful projects, through pictures and stories.

To place your order, contact Michael Murno at mmurno@ekmail.com or at 212-944-2000. The cost is \$35 and includes shipping.

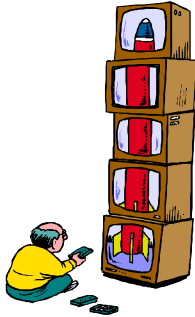


ATTENTION: THE YOUNGER MEMBER GROUP WANTS YOU!



FIRST MEETING OF THE NEW YEAR!!! 6 PM Tuesday, January 21st at Dewberry-Goodkind, Inc., 60 Feronia Way, Rutherford, NJ 07070. Come out and help shape the future for civil engineers. We are going to discuss potential events for the coming year, as well as Engineers' Week.

FOOD AND REFRESHMENTS WILL BE PROVIDED. For more info contact Scott Lubarsky by phone: 973.338.6680 or by email to: SCOTT.LUBARSKY@EARTHTECH.COM or your ASCE office representative

GARETH'S PICKS

It's a new year and my channels are being switched around AGAIN by the cable company. I hope the VCR+ is functioning because I've got another diverse listing of programs for the enthusiast in all of us. Plus, the beavers are back again. Happy hunting and enjoy!

The History Channel**Hands on History - Oil Drilling**

The story of oil is peopled with larger than life characters--wildcatters and industrialists--who won and lost fortunes in the ongoing gamble to find black gold. Host Ron Hazelton follows in their footsteps as he reviews the evolution of oil wells and uses state-of-the-art equipment and the latest technology as he hunts and drills for oil.

Tuesday, January 14 08:00 AM - 08:30 AM

Empire State Building

The amazing story of how the New York City skyscraper was constructed during the depths of the Depression. Requiring 10-million bricks and 60,000 tons of steel beams, and using a revolutionary technique to hold the steel girders in place--hot rivets--the landmark building was completed four months ahead of schedule.

Monday, January 20 9:00 - 10:00 AM & 3:00 - 04:00 PM

Transcontinental Railroads

With California finally part of the U.S., two rail companies raced to connect the monied East and the promising West. Along the way, fortunes would be made, lives lost, and adversity overcome. Join us for the exciting story of the largest, most expensive challenge of the 19th century.

Monday, January 20 10:00 AM - 11:00 AM & 04:00 PM - 05:00 PM

Grand Coulee Dam

One of the world's largest concrete dams and largest concrete structures lies on the Columbia River in the State of Washington. Built in 1931, the Grand Coulee Dam is also one of the largest hydroelectric power plants. We'll explore this technological wonder.

Monday, January 20 11:00 - 12:00 PM & 05:00 PM - 06:00 PM

Golden Gate Bridge

More than 50 years after its construction, the Golden Gate remains one of the world's great engineering marvels. It took 25-million man-hours and 80,000 miles of cable to complete. But the cost in human life proved even greater.

Monday, January 20 12:00 - 1:00 PM & 6:00 PM - 7:00 PM

The London Underground

Deep beneath London runs a complex network of many miles of tunnels; and, while traffic congests the roads above, hundreds of trains run through these iron and concrete arteries, carrying millions of people into, around, and out of the City. Here is the story of the "Tube", the world's first underground railway, which holds London together--from its opening in January 1863, through its deep-level expansion and electrification, to the fully automated trains of the 21st Century's Jubilee Line.

Friday, January 17 01:00 - 02:00 PM & 17 07:00 PM - 08:00 PM

Gasoline

Traces the history and evolution of the world's most important fossil fuel. Without gasoline, modern life would grind to a halt. Americans use about 360-million gallons of gas every day. And

though most of us could not function without gas, very few understand what it really is, how it is made, what all those different octane numbers really mean, and how researchers developed cleaner burning gasoline. All these questions will be answered as we look at the history of this "supreme" fuel.

Friday, January 24 01:00 PM - 02:00 PM

Hoover Dam

The task was monumental: Build the world's largest dam in the middle of the desert, and tame the river that carved the Grand Canyon--all in seven years! When the Hoover Dam was completed in 1935, it was the largest dam in the world. We'll reveal how this engineering wonder of the world was conceived and built.

Wednesday, January 22 06:00 PM - 07:00 PM

Paving America

The story of the construction of our grand national highway system, from its beginnings in 1912 (it was conceived by auto and headlight tycoons) to its completion in 1984 (when the last stoplight was removed--and buried).

Wednesday, January 22 07:00 PM - 08:00 PM

Concrete

Invented by the ancient Romans, concrete is a relatively simple formula that changed the world. Concrete has been used to divide an entire country, as in the Berlin Wall, and to unite nations, as in the Chunnel. We'll review the history of this building block of civilization and look at modern applications.

Tuesday, January 28 01:00 PM - 02:00 PM & 07:00 PM - 08:00 PM

The Discovery Channel**Dambreak Disasters**

Travel to the heart of small-town America to witness the devastation of a dam failure. Discover what happens when a city is instantaneously submerged under billions of gallons of water as survivors recount the seconds in which their lives were swept away.

Jan 08 2003 7:00 PM & Jan 09 2003 2:00 AM

Deadly Crossings: American Intersections

Of the 600 million vehicles worldwide, half are in the United States. These cars, combined with driver aggression, road design, and human error have collided to create deadly intersections. Traffic engineers reveal some lethal design flaws.

Jan 12 2003 2:00 PM & Jan 18 2003 8:00 & 11:00 PM

The Largest Ferris Wheel in the World

One of the world's most difficult artistic and technical projects looms high above London. A 450-foot wheel that carries 832 people in glass capsules and allows them to see 20 miles in every direction, cost millions and carries high hopes.

Jan 12 2003 11:00 AM & Feb 09 2003 12:00 PM

Beavers: Dam It All

No animal creates its own habitat and changes the environment as much as the beaver. This engineering marvel employs sophisticated building techniques to create underwater tunnels, "carpeted" living chambers and intricate storage space.

Feb 07 2003 8:00 & 11:00 PM; Feb 08 2003 11:00 AM

The Learning Channel**Extreme Force**

The devastating effects of an explosion or earthquake reveal the weakness of a building. Unexpected collapses, from the Alfred E. Murrh Federal Building in Oklahoma to the seaport in Kobe, Japan, constantly challenge engineers.

Jan 09 2003 9:00 PM & Jan 10 2003 12:00 AM

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Upcoming Events:

January 15 - Construction Technical Group Meeting
At the Gateway Bar & Grill in the Gateway Hilton at 6PM. Contact Mr. Luigi Zecchin @ (201)-797-7400 or lzecchin@pirnie.com for more info.

February 19 - Transportation Technical Group Dinner Seminar
Topic: The Portway and Whippen Bridge Projects. Location: The Newark Club

March/April - OSHA 10-Hour Training

March - Structural Technical Group Half-day Seminar
Topic: Segmental Concrete Bridge Design. Location TBD