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## **DESIGN AND CONSTRUCTION OF PARKING GARAGES**

Parking garages are unique structures in that the design must consider loads that are traditionally used in building design as well as the vehicular loads used in bridge design. Al Klag, Principal of Carl Walker Inc. – a firm that specializes in the planning and design of parking garage facilities, will present an overview of parking garages and discuss various factors such as structural ramp configurations, parking access and revenue collection, ADA compliance, material type including precast elements, design codes and standard industry practices that must be considered in the design and construction of this specialized structural facility. Please join us in this very interesting presentation emphasizing both building and bridge engineering principles.



**SPEAKER:** Alfred J. Klag, Jr. PE, Principal, Carl Walker, Inc

**DATE/TIME:** Thursday, January 22, 2009  
Registration at 5:30 PM and dinner at 6:30 with presentation to follow.

**LOCATION:** New Jersey Institute of Technology – Campus Center (next to Fenster Hall)

**DIRECTIONS:** Directions could be found online at [www.njit.edu](http://www.njit.edu) or by calling the main number at (973) 596-3000. Reserved parking is available at the NJIT Parking Garage on Summit Street

Mass Transit: From Newark Penn Station, take the Newark City Subway to the Warren Street stop for the NJIT Campus.

**COST:** \$ 55 ASCE Members, \$ 65 Non-Members,  
\$ 50 Government Employees, and \$25 Full-Time Students with ID  
*ADD \$5 PER TICKET IF REGISTERING AFTER 1/15/09*

**REGISTER:** RSVP by 01/15/09  
Call or email Satish Patel at (732) 452-9200;  
[satish.patel@jacobs.com](mailto:satish.patel@jacobs.com) or register online at  
<http://branches.asce.org/northjersey/calendar/index.html>

**PDH:** 1.0 PDH pending approval

**Please make checks payable to ASCE North Jersey Branch**

## PRESIDENT'S ADDRESS

### ***Huge Water Main Break in Bethesda, MD Days Before Christmas!***

### ***Huge Water Main Break in Somerset, NJ Days Before Thanksgiving!***

What will be next? Why must we wait until the inevitable collapse of our infrastructure to take appropriate action? Installation records throughout the state indicate our water and sewer infrastructure are over 100 years old in many locations. How long can we continue to ignore the impending crisis?

All eyes are turned to Washington as we await the inauguration of the 44th President of the United States. Rumors abound about the next economic stimulus package. President-Elect Obama has promised to focus on domestic issues and believes infrastructure investments are a tool for economic recovery. Your ASCE leadership has been in Washington to make sure those statements are realized.

Another issue sure to affect our profession in the coming years: succession planning. We've all heard how important it is for our companies to prepare for the retirement of key

personnel over the next 5 to 10 years. What about the years after that? Engineering schools have seen modest increases in the past two years, but the larger trend is toward smaller graduating classes. If engineering is not seen as a profitable, rewarding career choice, then how can we hope to compete with the ever-increasing demand for educated employees in the tech sector? Even with the influx of foreign talent to our profession, we are far from filling the demand for qualified personnel.

Several programs exist to expose young minds to the thrills of engineering. One such program, Future Cities, encourages middle school children to explore the challenges of urban planning while integrating technologies to reduce pollution, reduce waste, and build green. The teams begin in September with the final regional competition occurring January 17 at Rutgers. I encourage you all to stop out and see what these kids are capable of when left to their own imagination. Our support of their enthusiasm can make the difference in their later career choices. Having a positive experience with a practicing professional has been proven to make a child more likely to consider engineering as a viable career path.

Did you know we have a K-12 Outreach group? If your child's teacher or PTA is looking for a guest speaker or you would consider speaking to a group of young people about engineering, consider reaching out to our K-12 chair. We keep a pool of volunteers ready to speak at any engagement. We also have advisors to help you prepare if you are interested in presenting. We have classroom tools and display suggestions to teach basic engineering principles to students at all grade levels.

The engineers of tomorrow are born today. Let's make sure we give them all the support and encouragement they need.

Until next month,



Teresa L. Peterson, P.E., C.M.E.



### **SAVE THE DATE**

*February 24<sup>th</sup>, 2009*

## ***The Environmental Technical Group Dinner Meeting*** ***The NYC Water Tunnel #3***

*At La Quinta Restaurant  
Rt. 46 West Fairfield, NJ*

MORE INFORMATION TO FOLLOW

## Regulatory Update: Licensed Site Professionals

In June 2008, a bill was introduced to the NJ Senate and NJ Assembly. **Bill S-1897 (A-2962) would authorize the NJ Department of Environmental Protection to establish a licensing program for site remediation professionals.** The DEP would be responsible for developing the guidelines for licensure, but would require, as a minimum, stringent review of experience including 10 years of practice, health and safety training and participation in a State course on technical requirements for site remediation, an examination developed by the Department, and proof of insurance.

This license would permit certified individuals to perform environmental remediation activities, oversee site remediation work, and sign-off to the Department that the work completed conforms to the technical requirements for site remediation developed by the Department. In addition, licensed site professionals would be permitted to sign-off on all remediation plans including preliminary assessments, remedial investigation and action work plans, progress reports, and any changes to these documents. The DEP would retain the right to approve or deny the documents for Tier 1 and 2 sites. For Tier 3 and 4 sites the DEP would review screening documents and checklists. If compliance is questionable, the DEP could request additional information.



For many of you, this will not affect your daily operations. However, I urge you to read the proposed legislation and form your own opinions. Senator Bob Smith has promised to take action on this by February 1, 2009. Full text of the proposed bill can be read at [http://www.njleg.state.nj.us/2008/Bills/S2000/1897\\_11.PDF](http://www.njleg.state.nj.us/2008/Bills/S2000/1897_11.PDF)

Those who practice environmental engineering and specifically those who work in the site remediation field, have raised concerns about this legislature. **The NJ Society of Professional Engineers has taken a position of opposition to the bill as currently written. ASCE NJ Section is poised to do the same.**

**At issue is the right of a non-Professional Engineer to take responsibility for site conditions which are solely in the purview of engineering.** While many of our focus areas may overlap regarding soils, chemistry, treatment, etc., there are many subjects we study that they do not. A LSP need only prove a bachelor's degree in the natural sciences, chemistry or physical science, or an engineering degree. Also, as currently written, licensed professional engineers would not be exempt from the testing requirements.

As Professional Engineers, we are already subject to rigorous experience and testing requirements. We maintain professional insurance. Our licenses are governed by the Law and Public Safety Division, in recognition of the trust bestowed upon us by the general public. The work we do directly impacts the health, safety & welfare of the public.

Last year we avoided a challenge from the Land Surveyors with regards to our rights to take measurements. **Let us continue to be diligent in protecting our license and responsibilities.**

Please send your thoughts to Senator Smith [www.senatorbobsmith.org](http://www.senatorbobsmith.org) and Assemblyman McKeon [AsmMcKeon@njleg.org](mailto:AsmMcKeon@njleg.org)

### UPCOMING EVENTS

January 17th NJ Future City Competition  
 January 22nd STG Dinner - Parking Garage Desig  
**February 16th-20th Engineers Week**  
 February 24th ETG Dinner - NYC Water Tunnel #3

March 10th TTG Event "Infrastructure" Stimulus  
 for the NY/NJ Region  
 March 26th Full Day Seminar on Sismic Issues  
 April GIANTS Stadium / 16W Tour

## EDUCATIONAL OUTREACH

### Volunteers Needed for Future City Competition

Do not forget the National Engineer's Week Future City Competition ([www.futurecity.org](http://www.futurecity.org)) is only a month away! Scheduled for January 17th at Rutgers University Busch Campus this event teaches middle school students about engineering in the hopes of encouraging them to pursue a career in our profession. This non-profit group is looking for volunteers (general and to judge) and donations – if you would like to volunteer the day of the competition please contact Sarah Weissman at [scweiss@rci.rutgers.edu](mailto:scweiss@rci.rutgers.edu), if you would be interested in judging student presentations please contact Matt Lunemann at [lunemann@gmail.com](mailto:lunemann@gmail.com), and if your company is interested in donating please contact program coordinator Scott Lubarsky at [slubarsky@hntb.com](mailto:slubarsky@hntb.com). Also, please check out our new Region Website at <http://branches.asce.org/centraljersey/FutureCity.html>.



#### UPCOMING YMG EVENTS

## YMG

### BOWLING TOURNAMENT FUNDRAISER

Round up your colleagues and friends for an afternoon of bowling! More details to follow.  
For information, contact Chrissa Roessner at [croessner@louisberger.com](mailto:croessner@louisberger.com)

Date: Saturday, March 14, 2009

Time: 1 - 6pm

Location: AMF Wallington Lanes in Wallington, NJ

## Help Guide the Future of Our Nation's Infrastructure RENEW TODAY!

Have you renewed your 2009 ASCE membership? ASCE dues were due on Dec. 31, 2008, which means if you haven't renewed your 2009 membership, you run the risk of losing your valuable ASCE benefits, such as membership in your local ASCE Section or Branch. Plus, 2009 has the potential to be a significant year for ASCE and civil engineers. As we prepare to welcome a new president who has promised to place infrastructure renewal at the forefront of domestic issues, the Obama administration has already tapped ASCE to play a leading role in deciding where money from the stimulus package would best be spent.

Take pride in your role in educating the public and policy leaders about the importance of infrastructure to our

nation's safety and economic security. And support the fight to renew our nation's infrastructure by renewing your 2009 ASCE membership.

You can renew your ASCE and Section/Branch membership today by going to [www.asce.org/renewal](http://www.asce.org/renewal)



**Have you paid your 2009  
ASCE membership dues?**

[Click here to renew today!](#)

## Projects In Our Region



### *Seven of the nine reconstructed / widened bridges*

The Route 46/Route 23/I-80 Interchange. Referred to by the media as the "Spaghetti Bowl" due to its complex confluence of ramps and roadways, this Interchange is among the busiest crossroads in NJ, carrying over 300,000 vehicles a day. The purpose of this project was to enhance traffic operations and safety throughout the Interchange and address the deteriorating condition of the existing roadways and bridges.

The Interchange is located in Passaic County, and services many area businesses including one of NJ's busiest retail centers. The Interchange exhibited capacity, safety, physical condition and operational problems. There were numerous accidents due to the lack of acceleration and deceleration lanes, inadequate lighting & signage, and short weaving sections. In addition, nine bridges required superstructure replacement and/or widening, with a majority of the structural design performed by NJDOT.

The ultimate untangling of the Spaghetti Bowl resulted in smoother weaving operations, congestion relief and safer access to the adjacent businesses.

Title & Location: Route 46/Route 23/I-80 Interchange Improvements  
Wayne Township, New Jersey  
Client/Owner: New Jersey Department of Transportation  
Designer: Stantec and NJDOT  
Contractor: Anselmi and DeCicco, Inc.  
Cost: \$70 Million

***If you have photographs of any recent projects in our region and would like to submit them please send the photos, along with a short description, to:***  
[Kevin.Doyle@stantec.com](mailto:Kevin.Doyle@stantec.com)



## NORTH JERSEY BRANCH TECHNICAL GROUPS

Join one of these groups and get involved with others in your field of interest. For more information, contact Kevin Doyle, P.E. at [Kevin.Doyle@stantec.com](mailto:Kevin.Doyle@stantec.com) or any of the individuals listed below:

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### WATER & ENVIRONMENTAL GROUP

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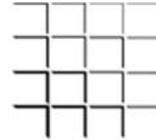
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