

CEG

Newsletter Commentary

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The Consulting Engineers Group Inc.



CEG Celebrates 35th Birthday

It all began simply enough. 35 years ago a fellow by the name of Norm Scott hung his shingle out of a one man office above Young's Chinese Restaurant in Glenview, Illinois and CEG was born. Now, as we ready ourselves for the next 35 years, we can't help but reflect upon the exciting personal and professional growth that has made our CEG family what it is today.

A true constant during our 35 years that cannot be overlooked has been an unwavering dedication and commitment to our industry's professional organizations. Our employees have and continue to give selflessly of their time to serve at all levels of these organizations, from committee members to president. The benefits that these associations have brought to CEG are undeniable and hopefully our contributions are and have been equally beneficial to them. One example of this continued dedication: as you read this newsletter, Les Martin is in the midst of editing his fourth edition of the PCI Design Handbook.

In the early 1980's CEG realized an increasing demand from precast producers for a full variety of services. In response to this demand, CEG opened an office in San Antonio, Texas in 1982. Under the fine leadership of Tom D'Arcy, this office has grown, flourished and today 26 employees make up the southern branch of our CEG family.

Keeping an eye on the future has always been an essential ingredient in CEG's success. It was this forethought that in 1988 led CEG to establish an Employee Stock Ownership Program (ESOP). In 2000 we became a 100% employee owned company and it is with this vested ownership interest that we all, as owners, look forward to the continued success of CEG.

In 1993 the addition of Dick Beebe to our CEG family opened up a plethora of new opportunities for CEG in transportation, parking consulting and related fields. Under Dick's watchful eye, this area of our business has

become an integral part of CEG's overall structure. Today we offer a full range of parking and transportation consulting services. The recent addition of Chuck Cullen to our staff (see related article "CEG Expands Parking Consulting Services") will insure the continued good health and expansion of these services.

As we begin the next 35 years of our journey we look back on the many changes at CEG with great fondness. We've grown from a one man band to a family of 53. We've gone from drafting boards and slide rules to calculators and computers. A few things have also remained constant during this time. Our commitment to our most important asset—our employees, our commitment to providing our clients with superior service, and our commitment to the health and well being of concrete design and construction. It is with these basic principles in mind that we, the 53 owners of CEG, look forward to serving our industry and our clients for the next 35 years.



CEG to Engineer 2 Trophy Projects for Chicago

CEG has begun structural engineering on two "trophy" projects for the City of Chicago. The first is the Music and Dance Theater Chicago project (MADTC) located at the north end of the new Millennium Park. The second is the Soldier Field North Parking Garage which is part of the new stadium for the Bears.

MADTC is a 1500 seat performing arts theater. The structure extends from 10' above street level down below the second sub-street level and abuts structures on three sides, one of which is the new band shell. On the fourth side, it fronts lower Randolph Street. Except for the entry lobby and raised area over the stage, the entire roof is part of the park and covered with soil and plantings weighing up to 500 psf in some areas.

CEG teamed with Prestress Services, Inc. to value-engineer a structural solution in precast as the cost and schedule of a domestic steel frame proved unworkable. The main roof consists of 108' bulb tees carried by 30" x 54" girders and 30" columns creating a 65' high audience hall above stage level.

The project is scheduled for completion in July 2003 and it will be a cornerstone of the magnificent new Millennium Park.

The Soldier Field North Garage is one of two garages planned to be integral with the new stadium. The garage is tucked under the upper deck with stadium columns protruding through the garage. In addition, there is a pedestrian walkway with a "water wall" currently planned that slices

through the garage both horizontally and vertically. PBM (Rochelle, IL) is the precast manufacturer. The job is being "fast-tracked" in preparation for the 2003 season.

CEG is proud to be a part of these two spectacular projects which the city has undertaken.



Continental Global Gateway Program Newark International Airport Terminal C Garage

The Terminal C Parking Garage in Newark, New Jersey, currently under construction, is truly a collaborative effort. Funding for the project is provided jointly by the Port Authorities of New York and New Jersey as part of a multi-million dollar expansion of the airport and other infrastructure improvements. The garage will provide the necessary additional public parking for the expansion.

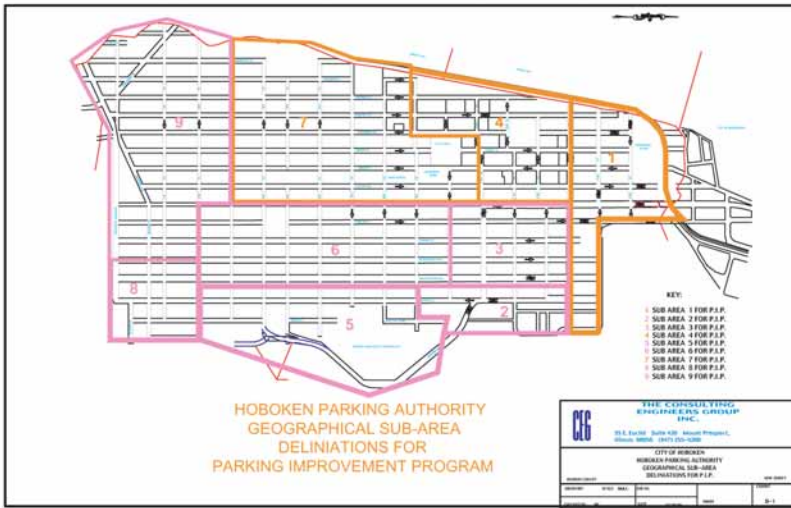
The program requirements for the garage include a grade level and three supported levels of parking for 3400 cars including limousines. One thousand spaces are for hourly parking and 2400 spaces are for daily parking. The design provides separate access to each of these areas as well as overflow parking from the hourly to the daily parking area. Vertical

and horizontal access is achieved via two pedestrian bridges linked to Terminal C and a set of escalators and elevators on each side of the garage providing vertical access between all levels. The design also incorporates three helix ramps, one interior ramp and a light well on each side of the garage to provide plenty of natural light throughout the structure. The majority of the structure is composed of precast concrete double tees, beams, columns, shear frames, shear walls and spandrels. Steel box beams, in excess of eighty feet long and four feet deep, carry the third and fourth levels over arrival and departure roadways.

The project is being constructed in stages to avoid taking any more than 400 parking spaces out of service at anytime during

construction. This poses a challenge in itself as the project is being built on a design-build "fast-track" basis. This requires multiple Tenant Alteration Applications (TAA), which describe individual work packages or groups of trade packages. In short, this means the submission of drawings for each of the ten phases of the construction sequence.

The Port Authorities of New York and New Jersey are the owners and Continental Airlines is the leasee. Prismatic Development Corporation from Fairfax, New Jersey is the General Contractor, Consulting Engineers Group, Inc. of San Antonio, Texas is the Structural Engineer of Record and Clark Caton Hintz of Trenton, New Jersey is the architect of the project.



*Chuck Cullen,
Assistant Director of Parking
and Transportation Planning*

ments for downtown redevelopment, parking management operations, or overall parking system expansion. Based on study results a Parking Improvement Program (PIP) is outlined. The PIP includes everything from managerial and operation adjustments to financial evaluation of the parking system including the need for improved Revenue Control to additions to the parking space inventory. New parking structures, which may be recommended, vary depending on the needs of the area and site locations available. Conventional structures work when the site is large enough to allow for ease of access and consistent flow both internally and externally. Other options such as Automated Parking are reviewed for smaller sites where demand warrants a parking structure. CEG is a leading consultant in the Automated Parking market, providing clients with expert advice on the implementation, construction and operation of automated parking facilities.

CEG Expands Parking Consulting Services

CEG is committed to providing clients with a full range of parking consulting services. In order to expand and improve our capabilities we have added Chuck Cullen to our staff as the Assistant Director of Parking and Transportation Planning. Chuck retired April 30th as the Superintendent of Parking for the City of Cincinnati after completing 30 years of dedicated service. His knowledge and expertise in all facets of parking will enable CEG to provide its clients with additional parking consulting services. He will be working with Dick Beebe on current projects in the Cities of Cincinnati, Hoboken, and Little Rock and developing a Cincinnati regional office for the firm.

One focus of our expanding parking consulting services will be Revenue Control

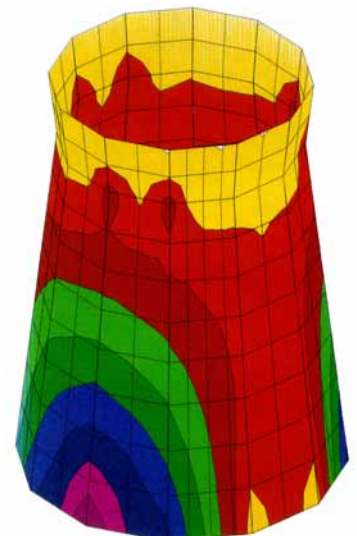
Systems (RCS). Revenue Control System consulting for various cities and airports across the country has expanded significantly in the last few years. We have already been involved in several airport parking garage projects including the Minneapolis Airport, Continental Airlines Garage at Newark Airport and the new 11,400- space garage at Detroit Metro. A new project addition to our airport parking consulting will provide RCS consulting to the Sacramento, CA Airport. We will be working with Wilbur Smith Associates to provide a new RCS system and designing a comprehensive signing package at the airport. This should be an exciting new airport challenge! Many of our parking consulting assignments are providing cities with planning and parking studies to guide them in providing improve-

CEG Engineers Conical Cooling Towers

The Newton Road Ramp Twin Cooling Towers for the University of Iowa presented a unique set of challenges to The Consulting Engineers Group, Inc. The geometry, handling, erection and service design of the towers were quite different from the typical precast, prestressed concrete wall panel project.

The lower panels of the conical tower were 54'-6" tall with a 10'-0" tall top panel. All of the panels were tapered on each side to create the distinct cooling tower shape. CEG performed a finite element analysis to determine that a 10" prestressed wall panel was adequate for the required design loads. CEG's design also included special consideration for shipping and handling of these large walls along with a special temporary bracing condition that occurred during erection.

Once again, the versatility of precast, prestressed concrete provided a unique solution to a unique project.



Owner: University of Iowa
Architect: Herbert Lewis Kruse Blunk

Contractor: McComas-Lacina Construction
Precaster: Raider Precast Concrete

Erector: Broeker Erection

News Bites

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- **Walt Korkosz** of CEG-TX has accepted an appointment as the chairperson of PCI's **Parking Structures Committee**.
- CEG is pleased to welcome and introduce our new employees including **Scott Winch** and **Parisha Chanodia** in our **Illinois office** and **Andrew Waness** in our **Texas office**.
- Congratulations to **Walt Korkosz** and **Marge Rady** on receiving their **20-year service pins**, **Sammy Ip** for receiving his **15-year service pin**, and **Syed Ahmed**, **James Henderson**, **David Nasser**, and **Reynaldo Ymson** for receiving their **5-year service pins**.
- CEG-TX has expanded acquiring some much needed additional office space.



Jerry Goettsche Retires From CEG

After many years of distinguished service, Jerry Goettsche has retired from CEG. His professional career began in 1963 at Chicago Bridge and Iron Company. In 1969 he joined CEG as the second employee. From that humble beginning Jerry rose to President of CEG-IL. Jerry has worked on a variety of projects over his 32 year tenure with CEG including sports stadiums, parking structures, and office buildings. In addition, Jerry has been very active in PCI and ACI to help advance the precast/prestressed concrete industry. He plans to travel with his wife Karen and spend more time with his family in his retirement. All of us at CEG wish him well.

CEG Shares IPI Award at MSP

CEG has been included in the project design team awarded an Honorable Mention in the International Parking Institutes annual Parking Awards Program. The firm's work in planning and specifying the comprehensive Revenue Control System for Minneapolis-St. Paul International Airport has been a principal factor in the successful operation of the 15,495 space, multi-facility parking system, according to Greg S. Leean, Assistant Airport Director for Landside Operations. The system generated \$46,600,000 in revenue from 3,546,000 patrons in 2000.



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