ASCE
American Society of Civil Engineers

ASCE Illinois Section

News

Vol. 40, No. 6
July/August 1999

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Insert:

Fifth Annual Golf Outing Registration Form

83rd Annual Dinner Meeting Form

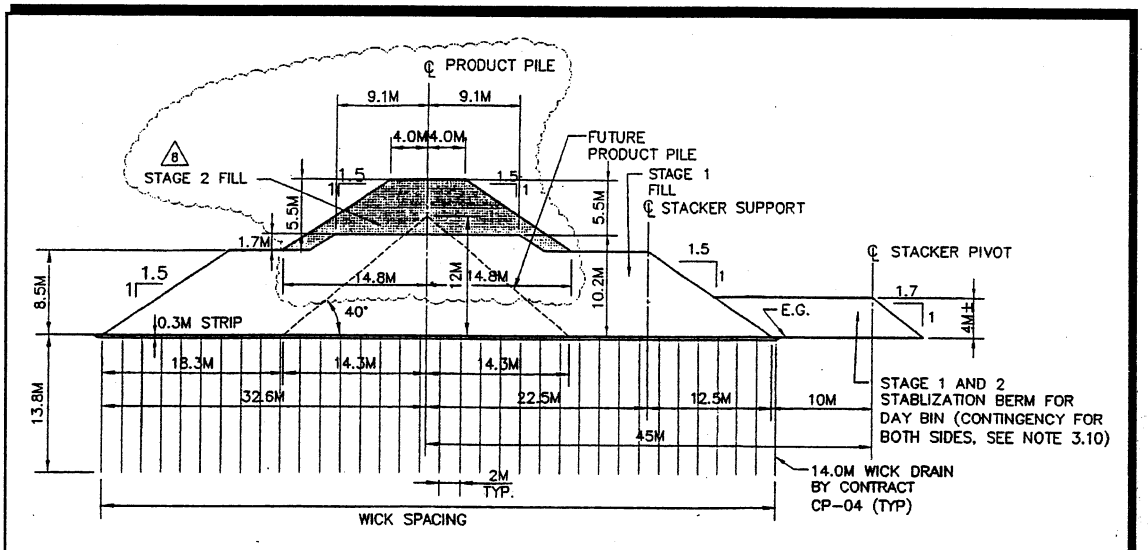
Successful Preloading at a Reduced Iron Facility in Trinidad

Foundation and site improvement designs were needed for the world's first reduced iron CIRCORED® facility on the island nation of Trinidad. Direct reduced iron making does not require coke or limestone. However, the thermochemical process requires an enormous amount of energy to reduce iron ore to 95 to 99 percent pure iron briquettes. In fact, the patented fluidized bed technology operates above 900 degrees Celsius in a reactor using hydrogen gas in the reducing environment. Trinidad was selected since the island has a skilled work force and has abundant low cost natural gas. Brazil is close by and has ample supplies of low cost iron ore and Trinidad is near shipping lanes to the United States.

The iron briquette production plant was located on reclaimed land made of dredged spoil over a former Mangrove swamp. The foundation soils at this site are soft and the region is in an active area of seismicity (UBC Zone 3). Two stockpiles were required, a 1.6 hectare fill for iron ore and a 1.1 hectare stockpile for finished product comprised of briquettes. Both stockpiles have to be 12 meters above design grade. Early geotechnical studies at the site restricted the height of the stockpiles to 8 meters. This was an unacceptable design restriction. The goal was to achieve 12 meter high stockpiles and avoid the cost of structural pile supported reinforced concrete mats to support the fills. The bulk density of the iron ore is estimated to be 2.3 metric tons per cubic meter (144 pcf) and product briquettes will be 2.8 tons per cubic meter (175 pcf). Radial stackers were selected to form arc shaped stockpiles that would fit on this small project site. The radial stacker rail and pivot point are sensitive to lateral forces and foundation movements. Furthermore, there were many structural pile founded conveyor bents and a 2,000 metric ton iron ore day bin structure that should not move.

The geologic profile of the site is characterized by 2 meters of loose sand and silt fill over 11 to 13 meters of natural, soft to medium stiff, silty clay to clayey silt with layers of fine sand (Unit 1 soil stratum). Standard penetration blows count ranged from 2 to 26 blows per foot. Beneath the Unit 1 soil stratum was the Unit 2 soil layer consisting of stiff to hard silty clay and clayey silt, with blowcounts

(continued on page 6)



SECTION A–A DESIGN OF PRELOAD FILL FOR PRODUCT STOCKPILE
SCALE: 1"=10M

Scholarships

1999 Summer Engineering Program Set to Go

This summer ASCE's Minority Affairs Committee will once again provide scholarships for area high school students to the University of Notre Dame's Introduction to Engineering Program. The three-week program is intended to provide students between their junior and senior year of high school with "hands-on" exposure to engineering through classwork, laboratory sessions, design competitions and site visits. Highlights of recent programs have included plant trips to Bosch Braking Systems and Delco Electronics, and paper airplane and beam design competitions. In addition, the program provides the students an introduction to life on a college campus.

This year's nine scholarship recipients are:

Andrzejuk Malgorzata
William H. Taft High School

Monika Krol
William H. Taft High School

Latisaqbara Carr
Curie High School

Juan Carlos Marquez
Curie High School

Rebecca Lefeu
Curie High School

Amalia Giokaris
Von Stueben High School

Neftali Garcia
Theodore Roosevelt High School

Tuan Vu
Theodore Roosevelt High School

James Smith
John Marshall High School

The program received a big boost this year from the Chicago School Partners Program directed by Dr. Belkis Santos. Dr. Santos and her staff greatly simplified the task of getting program information out to area schools and promoting the opportunity among guidance counselors and students.

Support for the student scholarships is generated from the Section's annual golf outing (see enclosed registration forms) and contributions from technical divisions and private firms. In addition, the Minority Affairs Committee is always looking for other organizations interested in sponsoring one or more students for the program. The possibility of follow-up internships for scholarship recipients has also been discussed. Anyone interested in helping with or contributing to the program should contact Joe Johnson at (312) 831-3821.

ASCE Illinois Section News

ILLINOIS SECTION NEWSLETTER
Mailed to all ASCE-IS dues-paying members
American Society of Civil Engineers
Illinois Section – Zone III – District 8

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Submittal deadline for the August Newsletter is July 12, 1999

President's Notes

John O'Holleran

The passage this spring of Governor Ryan's Illinois FIRST legislation represents a milestone in the state's commitment to the support of infrastructure services to our citizens. After years of inadequate funding and inattention, the state's schools and transportation systems were showing the signs of this neglect as facilities in need of relatively inexpensive maintenance turned into a failing system in need of extensive rehabilitation and significant investment.

The effort to win approval for Illinois FIRST required bipartisan leadership and support. Two leaders who took up the challenge were Governor Ryan and Mayor Daley. Their efforts to push for the entire package instead of a scaled-back version represents a refreshing change in today's "cut taxes without considering the consequences" atmosphere. Their position allowed representatives in the General Assembly the opportunity to step up and do the right thing. I have included the names of those who supported Illinois FIRST in the newsletter. Their support should be remembered during the next election.

During the battle to win passage of Illinois FIRST, I was reminded of the importance of communication with our representatives in the General Assembly. Although there is often times a cynical attitude toward the process of government, the importance of letting your representatives know your position on legislative matters is as basic as it gets. The ability to generate "grass root" support for a cause will always be a critical consideration for a representative who is held accountable to his or her constituents.

ASCE worked hard to win this "grass roots" battle. For those of you who took the time to contact your representatives, I congratulate you on an outstanding victory. For those of you who chose to continue sitting on the sidelines and trusting others to decide for you, I have one question. "What is it going to take to get you off the sidelines and on the field?"

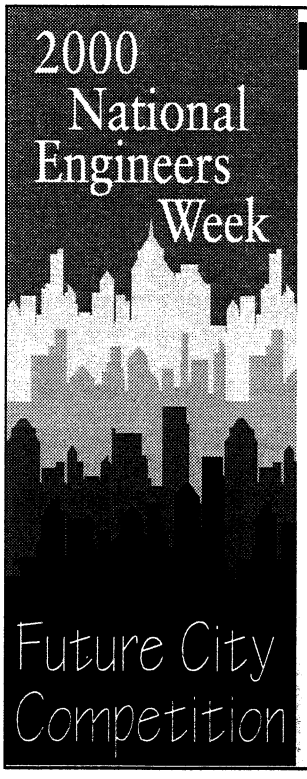
Following is a listing of General Assembly Representatives who voted "Yes" on Governor Ryan's Illinois FIRST legislation.

SENATE

Berman	9	Geo-Karis	31	Molaro	12	Sieben	37
Bowles	56	Halvorson	40	Munoz	1	Silverstein	8
Clayborne	57	Hawkison	47	Obama	13	Smith	3
Cronin	39	Hendon	5	O'Daniel	54	Trotter	16
Cullerton	6	Jacobs	36	Parker	29	Viverito	11
DeLeo	10	Jones, E.	14	Peterson	26	Walsh, L.	43
Delvalle	2	Karpiel	25	Philip	23	Walsh, T.	22
Demuzio	49	Klemm	32	Rea	59	Watson	55
Dillard	41	Lightford	4	Shadid	46	Weaver	52
Dudycz	7	Mahar	19	Shaw	15	Welch	38
Fawell	20	Maitland	44				

HOUSE OF REPRESENTATIVES

Aceverdo	2	Flowers	21	Lindner	65	Ronen	17
Beaubien	52	Fritchey	33	Lopez	4	Rutherford	87
Biggins	78	Giglio	79	Lyons	15	Ryder	97
Black	105	Giles	8	Madigan	22	Saviano	77
Bradley	20	Granberg	109	Mathias	51	Schoenberg	58
Brunsvold	72	Hamos	18	McGuire	86	Sharp	7
Bugielski	19	Hannig	98	McKeon	34	Silva	1
Burke	23	Harris	29	Meyer	82	Slone	92
Coulson	57	Hassert	83	Moffitt	94	Smith	91
Cross	84	Hoffman	112	Moore	61	Stephens	110
Currie	25	Holbrook	113	Morrow	26	Stroger	31
Daniels	46	Howard	32	Mulligan	55	Tenhouse	96
Dart	28	Jones	5	Murphy	30	Turner	9
Davis	27	Jones	6	Novak	85	Winkel	103
Davis, Steve	111	Kenner	24	Pankau	49	Wirsing	70
Delgado	3	Klingler	100	Persico	39	Wojcik	45
Durkin	44	Krause	56	Poe	99	Woolard	117
Erwin	11	Lang	16	Pugh	10	Younge	114
Feigenholtz	12	Leitch	93				



WANTED: ENGINEER MENTORS & JUDGES

The Illinois Engineers Week Committee is once again sponsoring the 2000 Future City Competition being held in at least eighteen cities nationwide. This annual competition is held for 7th and 8th grade students to foster interest in engineering, math and science through hands on computer modeling, essay writing, oral presentation and model building of the students "Cities of the Future". Schools from Chicago and the suburbs annually participate in this event.

Volunteers are needed to help plan the competition, be an engineer mentor to a school or be a judge for the competition in January. Planners are needed to work with the schools, help sign up volunteers and help with mailings and press releases. Engineer mentors will work with the students in an advisory role. They will visit their school 4-8 times throughout the competition, answer questions and guide the students. Judges are needed for two Saturdays in January to score the students' work. Information sessions will be held to assist the engineer mentors and judges in their responsibilities and to answer questions.

Please call Don Wittmer at (312) 930-9119 or email him at dwittmer@hntb.com to sign up or to get more information. This is a great opportunity to influence and encourage the engineers of the future.

Illinois Section News & Secretary Report

MAY 1999

In an effort to better inform ASCE Illinois Section Members of Board Meeting discussions and Section activities, the Section Secretary will be contributing this monthly article to the newsletter. Any feedback on the Section activities or membership needs is welcome and can be sent to the Section office address noted on the Newsletter's editorial section on page 2.

Each Section Group reported on their past month's activities and future group meetings as noted in the Section Activities portion of the newsletter. Highlights of future Group activities are as follows:

■ *Group Reports*

▲ The Geotechnical Group had 32 attendees (including 3 students) at their April 13 dinner meeting at the Como Inn. The featured speaker was Dr. Craig Benson of the University of Wisconsin at Madison. He gave an interesting talk on the beneficial reuse of gray-iron foundry sands in civil and geotechnical engineering. Their May dinner meeting will feature Mr. Steven Scherer of TCDI. He will speak on "How to Eliminate the Use of Caissons and Driven Piles in your Design by Using Micropiles and Compaction Grouting."

▲ The Environmental Engineering and Water Resources Group had eight attendees at their April 13 monthly group meeting at the offices of Christopher B. Burke Engineering Ltd. They discussed and approved funding $300 in support of the UIC Concrete Canoe Team. The group also discussed dinner seminars to complement their many seminars. Their next monthly group meeting is planned for May 11 at the offices of Christopher B. Burke Engineering Ltd.

▲ The Urban Planning & Development Group had nine attendees at their group meeting on April 15 at Denny's in Oakbrook Terrace. The group discussed their next seminar, focussing on GIS, scheduled for June 10, 1999 at the Prairie Arts Center in Schaumburg. It will be a half-day seminar with two to three speakers. They also approved $500 for the UIC Concrete Canoe Team. Their next group meeting will be May 20 also at Denny's in Oakbrook Terrace.

▲ The Younger Member cancelled their presentation on April 15 on the Des Plaines River Wetlands Demonstration Project, due to the illness of the speaker, Mr. Don Hey of Hey and Associates. The group had 14 attendees for Christmas in April on April 24. These volunteers assisted in rehabilitating a house for a 79-year-old widow on Chicago's far west side. Future activities include a tour of Vulcan Materials' McCook Quarry on May 22, a golf outing in June, and a casino boat outing in July.

▲ The Transportation Group had an April 14 dinner meeting at Truffles Grove Restaurant in Itasca, which featured Lake County DOT's Marty Buehler. The group postponed their presentation by IDOT, Division of Highways Director, Mr. Jim Slifer, originally scheduled for May 20 at the Union League Club. The group approved $500 for the UIC Concrete Canoe and Steel Bridge Team. The group also discussed details of education courses to be offered later this year.

▲ The Structural Group continued their 1999 lecture series, entitled Engineering Into the 21st Century, being held at the Harold Washington Library Center Auditorium. The third and fourth lectures were held on April 7 and April 24. The May dinner meeting will feature their Lifetime Achievement Award to be presented to Sherwin Asrow. The group's executive committee has selected Luis Benitez, a senior at IIT, as winner of their student scholarship. The presentation will be made at the Spring Suburban dinner meeting on May 19. The committee also approved $500 for the UIC Concrete Canoe and Steel Bridge Team.

■ *Additional Section Business*

▲ The Spring Suburban Dinner meeting will be held on May 19 at the Sheraton Gateway Suites in Rosemont. The guest speaker is District 8 Director Dr. Jeff Russell of the University of Wisconsin - Madison. He will discuss the Master's degree as the first professional degree.

(continued on next page)

■ *Group Reports*

▲ The Geotechnical Group had 32 attendees (including 2 students) at their May 11 dinner meeting at the Como Inn. The featured speaker was Mr. Steven Scherer of TCDI. He spoke on "How to Eliminate the Use of Caissons and Driven Piles in your Design by Using Micropiles and Compaction Grouting." There are no future meetings until September. The group is planning a field trip in July or August to a downtown construction site. The group is also planning for a Lecture Series in the Spring of 2000. Finally, the Executive Committee has approved moving the Student Scholarship to the Spring. There will be no award this fall and two scholarships will be given at the Spring Suburban Dinner meeting in spring of 2000.

▲ The Structural Group presented their Lifetime Achievement Award to Sherwin Asrow at their May 20 dinner meeting at the Como Inn. There were 40 attendees. The group now breaks for the summer.

▲ The Environmental Engineering and Water Resources Group had seven attendees at their May 11 monthly group meeting at the offices of Christopher B. Burke Engineering Ltd. They continued working on seminars planned for May and June. The Stream Geomorphology course had over 80 attendees. The HEC-RAS class had 18 people registered; the HEC-HMS class had 21 people registered. The advanced FEQ class was postponed to a later date due to low registration and the instructor's schedule. Their next monthly group meeting is planned for June 8 at the offices of Christopher B. Burke Engineering Ltd.

▲ The Urban Planning & Development Group had seven attendees at their group meeting on May 20 at Denny's in Oakbrook Terrace. The group finalized plans for their GIS seminar, scheduled for June 10, 1999 at the Prairie Arts Center in Schaumburg. They also began preparations for the Roundtable Development Seminar scheduled for October 1999. Their next group meeting will be June 17 also at Denny's in Oakbrook Terrace.

▲ The Younger Member Group had ten attendees for a tour of Vulcan Materials' McCook Quarry on May 22, led by speaker Hamilton White. Their golf outing was held on June 5 at Gleneagles Country Club, Lemont, IL. There were 39 golfers. The Group's next activity is an outing at the Hollywood Casino in Aurora, IL on July 15. There are also future plans for a Cubs outing in August and a planning meeting in September.

▲ The Transportation Group has rescheduled their presentation by IDOT, Division of Highways Director, Mr. Jim Slifer, originally scheduled for May 20 at the Union League Club, for September 22 at the Union League Club. The group will present a "Railroad Highway Grade Crossing" continuing education course this fall. The group also reported the resignation of their Treasurer, Bob Giurato. Bob Camillone will serve the remainder of the term.

■ *Additional Section Business*

▲ The Spring Suburban Dinner meeting was held on May 19 at the Sheraton Gateway Suites in Rosemont. The guest speaker was District 8 Director Dr. Jeff Russell of the University of Wisconsin - Madison. He discussed the Master's degree as the first professional degree. A total of 42 members and guests were in attendance.

▲ The Board approved sending all eleven applicants to the Minority Student summer program at Notre Dame. The Board will pursue funding alternatives for this worthwhile program for minority high school seniors and juniors.

▲ The Board was asked to review a Key Alert item related to the Aviation Trust Fund.

—By Cleighton Smith, Secretary

STRUCTURAL GROUP

1999 Student Scholarship Award

LUIS D. BENITEZ

The Structural Group Scholarship Award in the amount of $1,000 is presented annually to an outstanding undergraduate Civil Engineering student who has demonstrated an interest and is pursuing a career in the structural engineering profession. The award is presented in an effort to promote the development of future structural engineers. The Structural Group Scholarship Award is open to members of the ASCE Student Chapters at any of the Illinois Section Universities: the University of Illinois at Chicago, Northwestern University, or the Illinois Institute of Technology.

This year's recipient, Luis Benitez, is pursuing a Bachelor of Science degree in Civil engineering at the Illinois Institute of Technology. He anticipates graduating in December, 1999. His undergraduate studies have focused on structural engineering. He is currently working in the Illinois Department of Transportation co-op program and will be returning to classes in Fall. After graduation Luis plans to continue with his education and work towards a Master of Science degree.

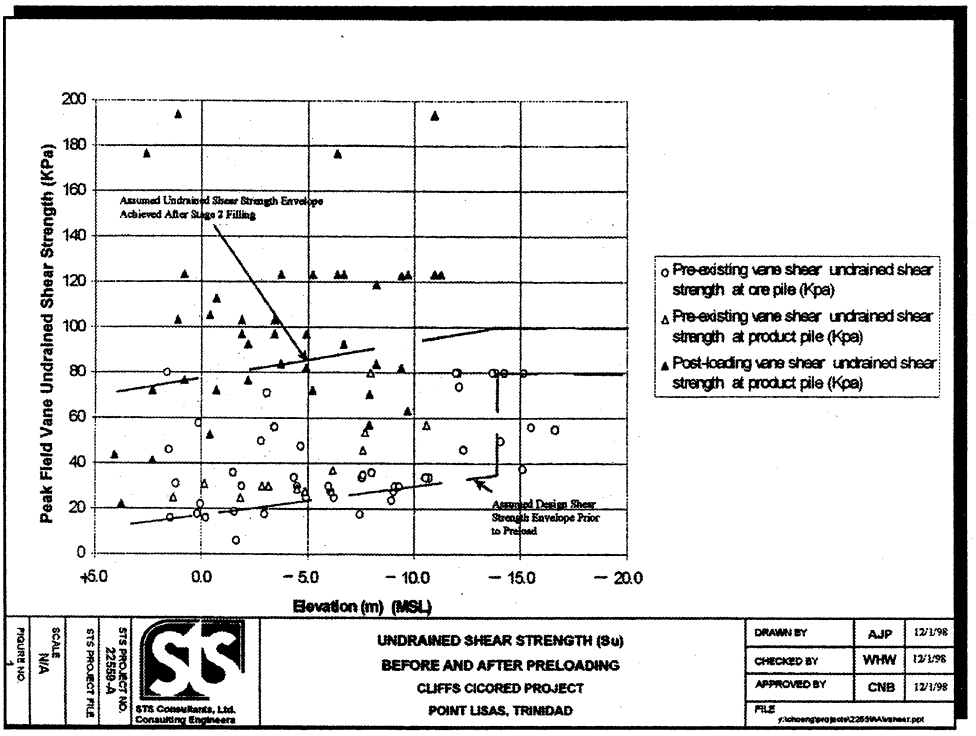
Mr. Benitez has demonstrated a high level of achievement throughout his academic career. Dr. Jamshid Mohamadi, Department Head of the Department of Civil and Architectural Engineering, describes Luis as "a very talented student with a great potential to become a successful structural engineer... He is well qualified for the scholarship and I would like to recommend him very highly for the award." The Structural Group is honored to have Mr. Benitez as their 1999 Student Scholarship recipient and wish him the best in his continuing education and future career.

Successful Preloading at a Reduced Iron Facility in Trinidad

(continued from page 1)

ranging from 18 to 74. Consolidation tests on the Unit 1 soil showed normally consolidated material while Unit 2 soils were over-consolidated. However, both units were deposits that came from the same geologic origin.

Design recommendations were required for foundations capable of supporting two, 12 meter high stockpiles without moving adjacent structures. The expected bearing pressures beneath the ore and product material were 270 and 330 kilopascals, respectively. The conclusion was that preloading the stockpile footprints after installation of vertical wick drains, horizontal drainage blankets and geotechnical instrumentation fills would provide a cost-effective solution. In October 1996, a staged preload program began and an instrumentation monitoring plan was formulated. As part of the design, in-situ vane shear tests were performed to measure the undrained shear strength of the soil prior to filling.



Instrumentation included multiple level piezometers in the Unit 1 soil layer, numerous vertical inclinometers around the perimeter of preload stockpiles, settlement plates, horizontal extensometers and pipe sleeves for vane shear testing. Three lines of instrumentation were established for each preload area. Between March and April 1997, the contractor installed 105,000 meters of wick drains. Since the iron ore was to be delivered during the fall of 1998, Bechtel started Stage 1 filling at the ore stockpile during August 1997 and completed filling in November 1998. A 10.5 meter high preload was successfully loaded and was held until January 1998, when ore preload fill was transferred to the product preload fill. The maximum measured settlement of the Phase 1 ore stockpile preload was 1.14 meters with a maximum lateral deflection of 0.25 meters at a 3 meter depth near the end of a the preload fill. Millions of liters of ground water exited the wick and blanket drain system. The highest pore pressure coefficient was approximately 0.4. We also monitored the ratio of lateral movement in the inclinometers to vertical movement in the adjacent settlement plate reading to ensure the ratios were less than 0.3. There was no hiatus in filling, however, there were several days when filling had to move from one end of the stockpile to opposite end to allow settlements to proportionately out weigh lateral movements which exceeded the 0.4 criteria. This ratio reduced to 0.3.

Beginning in November 1998, the product stockpile was loaded to a Stage 1, 10.5-meter height. By March 1998, the Stage 2 preload fill reached a height of 16 meters and held there until late May 1998. Stage 2 filling was successfully completed in two weeks. The product stockpile settled a maximum of 0.96 meters, and lateral movements did not exceed 0.18 meters. The ratio of inclinometer lateral to vertical settlement plate movement did not exceed 0.3. Starting in late October, 60,000 metric tons of Brazilian iron ore were delivered to the site. Within a 48-hour period the ore stockpile was filled up to 10 to 10.5 meters. There was little detected movement along the radial stacker pile rail, less than 4 millimeters, and piezometers showed excess pore pressure generation higher during the preload period. However, in less than two weeks, the piezometer measured pore water pressures beneath the ore stockpile had reduced to background levels.

The contractor arranged for vane shear tests to be performed under the product stockpile before and after preloading. Data from four vane shear test holes performed in December 1998 show a two to three fold increase in undrained shear strength due to preloading. Furthermore, it was analyzed that the foundation sliding stability of the 12-meter high product stockpile over the improved foundation soils had computed safety factors between 1.3 and 1.4 using a range of triaxial shear strength derived Unit 1 soil friction angles between 27 to 31 degrees, respectively. It was concluded that the Unit 1 foundation soils beneath the ore and product stockpiles are now more resistant to seismic liquefaction due to known efficiency of wick drain and blanket system. The stockpiles should be able to resist a design horizontal acceleration of 0.15 g with a post-seismic safety factor greater than 1.2.

The foundation system described above saved more than 1.5 million U.S. dollars. Having the time to perform and monitor this staged preload filling program made this foundation option a success. Excess fill from the preload was used to construct tailing pond embankments and raise site grades for storm surge protection. Without the time to hold the preload and allow drainage, the project would have had to use structural piling and a reinforced concrete mat. Furthermore, Dr. Ralph Peck's observational method of evaluating earth structure performance allowed us to take the risk of rapidly loading this soft ground using piezometers, inclinometers and settlement plates to heights not previously achieved.

—By William H. Walton, P.E., S.E.
STS Consultants

Section Activities

Younger Member Group

July Event: 2nd Annual Casino Boat Night

Come join us at the Hollywood Casino in Aurora and try your luck at the slots or the tables. Who knows, maybe you'll make enough money to retire early?

Date: Thursday, July 15, 1999
Time: TBA
Place: Hollywood Casino in Aurora
RSVP: Cliff Galitz (630) 434-7060 x1251
Cost: $ to gamble

August Event: 6th Annual Cubs Outing

Join us in cheering on the Chicago Cubs as they take on the San Francisco Giants. This is a rematch of last year's one game play-off for the Wild Card spot. Space is limited, so place your order ASAP. Please note that due to past demand for tickets for this event, YMG is limiting the number of tickets to four (4) per group.

Date: Monday, August 23, 1999
Time: 5:30 - 6:45 pm
Meet at SportsCorner
for pre-game social hour
7:05 pm First Pitch
10:00 pm Cubs Win!
Place: Wrigley Field
1060 West Addison, Chicago
RSVP: Ryan Issel (312) 831-3163
Cost: $18

September Event: 1999-2000 Planning Meeting

Urban Planning & Development Group

Concerned about important issues confronting the civil engineering profession? Visit our next meeting to discuss these items with fellow civil engineers involved in government, private practice, construction, consulting, and other disciplines. Please contact Jeff Gutowsky at (847) 895-3640.

Group meetings are held every third Thursday of the month. The back room at Denny's Restaurant has been reserved for the Group. There is no meeting scheduled for July. Our next scheduled meeting is:

Date: August 19, 1999
Time: 7:30 a.m.
Place: Denny's Restaurant
17 West 660 22nd Street
Oakbrook Terrace, Illinois
(630) 932-1888

Structural Group

There are no meetings scheduled for July and August. Look for information on September's meeting in the next newsletter.

Transportation Group

September Luncheon Meeting

Updates on Transportation Issues

By: Mr. James C. Slifer, P.E.
Director of Highways
Illinois Department of Transportation

Jim Slifer will be the speaker at the Transportation Group's September luncheon meeting. Mr. Slifer will discuss current transportation issues within the state, including increases in funding and the latest developments on the Consultant selection process. Additionally, he will provide insight relative to Illinois transportation concerns as we move into the new millennium.

Date: Wednesday, September 22, 1999
Time: 11:30 am - 12:00 noon (Social)
12:00 noon (Lunch)
12:30 pm (Presentation)
Place: Union League Club
65 West Jackson Blvd.
Chicago, IL 60604
Cost: $25.00

For reservations, please call Huron Winstead at 847.279.2466 or Peter Johnston at 773.399.0112 by Friday, September 17, 1999.

Geotechnical Group

Geotechnical Group meetings are normally held every second Tuesday of the month, September through May.

Our next regularly scheduled dinner meeting will be held Tuesday, September 14, 1999. Look for more information in the next newsletter.

Environmental Engineering & Water Resources Group

The Executive Committee of EE&WR meets the second Tuesday of every month. We always welcome new faces and ideas. If you would like to be active in planning activities related to environmental or water resources engineering and would like more information contact Thomas Burke. We have just completed sponsoring three successful seminars in May and June - River Geomorphology, HEC-RAS and HEC-HMS. We are in the process of organizing two future dinner seminars. The two seminars are NPDES Phase II and Digital Floodplain Mapping. For further information please contact Thomas Burke.

Date: July 13, 1999
Time: 5:30 p.m.
Place: Christopher B. Burke
Engineering, Ltd.
9575 W. Higgins Rd., Suite 600
Rosemont, Illinois
Info: Thomas Burke (847) 823-0500

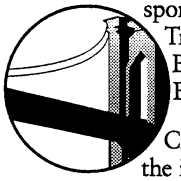
coming in September

Stream Restoration Workshop

The Association of State Floodplain Managers, with USEPA funding, is sponsoring a stream restoration workshop September 1 & 2 at the Indian Lakes Resort in Bloomingdale, Illinois. The course is designed for engineers, scientists and planners interested in stream restoration. The course will combine classroom training with field visits and include information on modeling, sediment transport, geomorphology, fisheries habitat, streambank stabilization, project planning and implementation. An optional evening symposium will be included to allow a limited number of course attendees to share their stream restoration case stories. The course fee is $100. For registration information check the ASFPM home page at www.floods.org or call ASFPM at 608-274-0123. This workshop is being co-sponsored by the ASCE-Illinois Section EE&WR group. If you are a practitioner wanting to share a project case study contact Karen Kabbes of Kabbes Engineering, Inc. at KCKabbes@aol.com.

National Park Service Team Documents Historic Chicago Bridges

The Historic American Engineering Record (HAER), a program of the National Park Service, will spend twelve weeks this summer documenting approximately 20 historic bridges in Chicago. The work is being sponsored by Mayor Richard M. Daley, Department of Transportation Commissioner Thomas R. Walker, and Chief Bridge Engineer S. L. Kaderbek. Assistant Chief Bridge Engineer Christopher Holt will serve as liaison.



Chicago once led the world in drawbridge technology. Most of the important types still survive in or near the downtown area, and will be the main focus of this project.

An international team of students and professionals with backgrounds in architecture, engineering, history, and photography will conduct the fieldwork. After conducting their research the team will produce detailed drawings, large-format photographs, and historical narratives, which will be deposited in the Library of Congress in Washington, D.C. Exact duplicates of the documentation will be given to the City of Chicago and the State Preservation Office in Springfield. At the conclusion of this project the HAER team will present their work to the public. Look for future announcements.

The HAER team consists of Architectural Field Supervisor James P. Hanley (Peoria, IL); Engineering Field Supervisor Justin M. Spivey (HAER); Architects Susan H. Gordon (University of Virginia), Karen L. Hassey (University of Virginia), Julia Koslow (University of Notre Dame), and Domagoj Kranjcevic (University of Zagreb, Croatia); Historians Jeffrey A. Hess (Minneapolis, MN) and Matthew Sneddon (University of Washington); and Photographer Jet Lowe (HAER).

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