VOL 4 • ISUUE 6 • AUGUST 2003

President's Message



On behalf of the new board of directors, I would like to thank the outgoing board members (Dr. Hossam Abdou, Talal Masri, Ranya Atia, and Mark Bendok) for their services to AAAEA. The success of our association partially depends on the continued involvement of all members and current & previous board members. I request that they continue their participation and involvement.

The following are some of the challenges that we face, items that the executive board is working on, and upcoming activities.

Some of the challenges include:

* Maintain and increase the membership. This is a challenge that

almost all organizations face. Your active participation is truly needed in this area. We request from ALL to renew their membership, remind others to renew, and contact prospective members.

* Relatively low attendance of some of our activities: by participating in our events you help support and encourage future activities.

* Scholarship: To date we have two applicants for the \$1,000 scholarships. We hope to increase the amount in the future to entice more applicants. AAAEA is one of few, and possibly the only, professional association that have a scholarship program and we need your help to publicize the scholarship.

* We are searching for a member to volunteer to be the new IT Officer to complete the term of Hani Maysoni who is leaving overseas. We thank Hani for his services and dedication to AAAEA and wish him all the success.

Issues that the board is working on include:
* The minority status for Arab Americans: The Chicago Commission on Human Relations (Advisory Council on Arab Affairs) has submitted to the Mayor's office recommendations regarding this issue. The recommendation requested that the City should sponsor a study to qualify Arab-Americans as a minority for inclusion with other minorities. AAAEA has participated in this effort; however, we believe that we need to take further parallel action. We will soon call the business owners for a meeting to discuss their recommendations and commitments to this issue.

* Abder Rahman Ghouleh continues to work with our accountants to secure the Illinois sales tax-exempt number and also to submit to the IRS the required association annual report.

* Ayoub Talhami has been appointed the Chairman of the By-law Committee, replacing Hasan Al Gholeh. Please review the by-laws and e-mail your proposed modification.

Our upcoming activities include:

* Second picnic will be on Saturday August 16th, 2003 in Oak Brook.

* The semi annual meeting will be on Friday December 5th, 2003.

* The third annual picnic will be on September 14th in Elk Grove Village.

* The Career Enhancement Committee continues to offer their monthly seminar in resume

editing and interview tips.
* EIT (FE) classes: Dr. Kazkaz and I are coordinating with PESO to hold a combined PESO/AAAEA EIT classes. The classes will start in October 2003 and will be completed in

* ACT classes: will start in September and will be completed in November 2003.
* Math tutoring has ended in the last week of May for the summer holiday and they will resume in the last week of August.

The new board is committed to continue all the programs that were established by the previous boards. We encourage all members to send their recommendations for improvement.

Soliman Khudeira

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VISIT OUR WEBSITE **WWW.AAAEA.ORG**

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Bridgeview, IL 60455 P.O. Box 2460 **AAAEA**

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Dr. Soliman Khudeira, PE (312) 421-2104

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IEC 65th anniversary awards banquet September 6th, 2003

This event honors the owners and engineers of four significant Illinois engineering projects selected by the council to represent contemporary engineering accomplishments. All AAAEA members are invited to attend the banquet. The featured speaker at the dinner is Dr. Lawrence A. Kennedy, Dean of Engineering at University of Illinois Chicago.

The AAAEA will likely get a table at the banquet again this year. If you are interested in attending, contact Hanie Miri (haniemiri@hotmail.com) For more information on the awards banquet please visit www.iecweb.org.

This year's winners who will present their projects are:

Wacker Drive Reconstruction Project:

Wacker Drive is a vital artery into, out of and around the heart of Chicago. The two-tiered roadway was constructed between 1924 & 1926 under the direction of Charles H. Wacker, Chairman of the Chicago Plan Commission. Wacker Drive remains a roadway without peer. With the 70-year-old structure at the end of its service life, the \$200 million project involved not just the reconstruction of the two tiered roadway, but a host of improvements as well.

Roseland Pumping Station Conversion from Steam to Electric

The Roseland Pumping Station (RPS) is located at 351 West 104th street. With the capacity of over 300 million gallons per day, the RPS is one of the 12 located throughout the city of Chicago. It serves the 6th, 8th, 9th, 10th, 19th, 21st and 34th wards and the suburban communities of Blue Island, Doltan, Harvey, Riverdale, Robbins and South Holland. The RPS was selected as the first of five steam driven pump stations to be upgraded because it,

unlike the others, is isolated geographically and is not augmented by a nearby facility. During unusually high peak demands in the summer of 1995, the reliability and operational difficulties of the aging steam system became evident. Many of the parts of the boilers and the steam turbine drivers for the water pimps are not manufactured anymore, and the CDOW decided it was time to move to a more efficient and cost-effective system.

Repair and Rehabilitation of Robert Rathbun Wilson Hall (Fermi Lab)

Wilson Hall is the central laboratory facility at Fermi Lab. It is a building that houses offices, meeting rooms, and is the focal point of activity (outside of the experimental areas) at Fermi Lab.

The Building consists of two symmetrical concrete towers tied together by post-tensioned concrete beams at the seventh through sixteenth floors on the north end of the building. Post-tensioned waffle slabs fasten the south end, on the thirteenth through sixteenth floors. The concrete sections that formed the walls, beams, and columns were cast using staggered boards in the forms to give a textured architectural surface. The building was deteriorating to a point of significant concern.

Former CTA Limits Bus Garage

Pioneer Engineering and Environmental Services, Inc. completed environmental remediation at the former CTA Limits bus garage at 2684 N. Clark Street in Chicago. Six underground storage tanks located at the site were discovered to have leaked petroleum products underground. The contamination was later discovered to have migrated off the site onto property containing residential homes. Field activities included conventional remediation methods on the subject site and specialized remediation at the adjacent residential property.

Business Members

Akhras Associates, Inc.

Salem Akhras, P.E. Work: 708-599-1101

Advance Consulting Group International

Elgag, Ehab, P.E. Elgag, Eyad, P.E.

300 W. Adams St. Suite 332

Chicago, IL 60606 Tel: 312-357-1840 Fax: 312-357-1845

Email: evad@acgintl.com Website: www.acgintl.com

Applied GeoScience

Adam Moghamis, P.E. 2385 Hammond Dr. Suite # 6 Schaumburg, Illinois 60173 Telephone: 847-303-0300 Fax: 847-303-0900

Email: appliedgeo@ameritech.net

Area Wide Property Management

Faysal Mohamed P.O Box 564 Oak Lawn, Illinois 60454 Telephone: 708-636-2501 Fax: 708-636-2501

E-mail: alwad@aol.com

CME North American Merchant Energy, LLC

Nedal Deeb, Ph.D.

One Tower Lane Suit 1700

Oakbrook Terrace, IL 60181

Telephone: 630-645-2265

Fax: 630-645-2266

Email: ndeeb@cme-energy.com

Home Page: www.cme-energy.com

Crown Consulting, Inc.

Marwan Househ

Work: 312-446-3976

Work Email: arwan12@aol.com

Home: 630 213 6695

Home Email: arwan12@aol.com

CSSN

Yousef Rayashi Work: 773-481-0520

Home Email: yusuf@cssn.net

DuPage Surveying, Inc.

Mustapha Hassan, P.L.S. 1535 Fieldcrest Dr. West Chicago, Illinois 60185 Work: 630-876-0296 Fax: 630-342-3441

E & M Plumbing Contractor

Muhie-Din Arman

Work: 773-491-2596

Work Email: marman4862@aol.com

Home: 773-262-1618 Fax: 773-267-6389

Flo-tech Mechanical Systems, Inc.

Abe Wahid

Work: 630-543-1118 Home: 630-483-1011

Home Email: zezenora@aol.com

HQ2 Construction, Inc.

Hassan Al Qudsi, PE 1011 W. Childs St. Wheaton, Illinois 60187 Work: 630-588-8835 Fax: 630-221-1025

Email: hqudsi@cssn.net Intercon Engineering Corp.

Suheil Nammari, P.E. 10110 Randolph Street

Crown Point, IN 46307 Work: 219-947-5800 Fax: 219-947-5811

Khatib Associates, Inc.

Rayad Khatib

Work: 312-236-0984

Work Email: rkhatib@khatibassoc.com

Home: 847-991-9834

Home Email: raykhatib@aol.com

Phoenix Technical Services, Inc.

Sami Nassib

16002 S. River Rd. Plainfield, IL. 60544 Work: 815-577-0100

Fax: 815 577-8220

Home Email: snassib@aol.com

The Software Reference, Inc.

Nizam Khatib

Work: 312-464-5243

Work Email: nizamkhatib@hotmail.com

Home: 630-527-0038

Swaby Manufacturing Company

Mohamed Khalil Work: 773-626-1400

Work Email: swabypump@aol.com

Home: 312-573-0919

Zed Architects

Nabil Zahran

Work: 773-388-8186

Work Email: zedchicago@aol.com

As a service to our business members, their business are advertised in the news letter for free. To include your business email us at aaaea@aaaea.org. For \$50 you can upgrade to a business card size advettisement. Email us if you are interested





Graduates Day

AAAEA will be honoring collage and high school graduates during our 2nd Picnic on Saturday August 16th, 2003. All members of **AAAEA** may provide us with names and photos (if available) of their family

Our program include:

* Recognition of the graduates by posting their names and photos in the **AAAEA** News Letter and web page.

members no later than August 1st, 2003.

* Calling of the graduate students during the picnic time to receive their gifts.

Please mail graduate name, phone number, type of degree obtained, School name, and photo if any to:
Arab American Association of Engineers & Architects

AAAEA

P.O. Box 2160 Bridgeview, IL 60455

Or E-mail to: aaaea@aaaea.org

Or voice mail: (708) 802-1148

Members of AAAEA gathered on Friday July 19, 2003 to acknowledge the contributions Hani Mayzouni made to the association during his service as an Information Technology Officer for the past two years. Hani will be leaving to pursue a job overseas. A plaque was awarded to Hani for his efforts and committeemen. We all wish him the best of luck in his endeavors.



Graphic Design Competition

The Arab American Association of Engineers and Architecture (AAAEA) is inviting designers to participate in a design competition for a new LOGO and a BANNER. The new LOGO will replace the one shown on the top left side of this page. The BANNER will be used in AAAEA website.

The new LOGO and the BANNER should reflect in its design the association mission, goals, all Engineering disciplines, Architecture, and as much creativity and innovation as possible. For more information about AAAEA, visit our web site at www.aaaea.org or e-mail your questions to aaaea@aaaea.org

In addition to the recognition, the AAAEA is offering symbolic monetary rewards as follows:

First Place - \$150 Second Place - \$100

Third Place - \$50

The deadline for the design submittal is August 31st, 2003. Please, mail and/or e-mail the design to the above address.

DID YOU KNOW that...

There are two professional engineers in the US Congress.

The Virginia Department of Transportation is requiring 250 employees to earn a PE license to keep their jobs.

Parade of Homes

Suheil Nammari has invited AAAEA members to the 20th Annual Parade of Homes in Crown Point, IN. Suheil is an AAAEA member and owner of Intercon Engineering Corp., a company specializes in site civil design. Bilal Masri and Soliman Khudeira have toured the site designed by Intercon.

Mr. Theodore Fitzgerald, attorney for the developer, wrote to AAAEA: "I have known and worked with Suheil Nammari on an almost daily basis for over ten years. The parade of Homes development that you saw last night, together with several other developments that I have worked on, were solely engineered by Mr. Nammari. Over the years, I have worked with literally dozens of engineers. In my opinion, Suheil is an outstanding engineer. His dedication to his client and professional knowledge are unsurpassed. More importantly, perhaps, is that his ethical and professional standards are above reproach. The Doubletree development, with a mile-long lake, 2000+ residential lots, a planned golf course, clubhouse, and 20 acres of commercial development passes the Lake County Plan Commission and Lake County Council without one significant engineering change and without one negative vote. You should be proud to have Mr. Nammari as a member of your [AAAEA] organization"



Bilal, Suheil, and Soliman at the Parade of Homes Event.



Bilal, Suheil, and Soliman at the Parade of Homes Event.



Suheil and Mr. Fitzgerald (the attorney for the developer)



One of the houses in the site designed by Suheil





How Air Conditioners Work

By Soliman Khudeira

This article was taken from www.howstuffworks.com. It took only around 1/2 hour to log on to the internet, search the topic, cut & past, read & make changes, and finalize this mini article for this newsletter. We request and encourage our members to contribute in this similar manner

The Basic Idea

An air conditioner is basically a refrigerator without the insulated box. It uses the evaporation of a refrigerant, like Freon, to provide cooling. The mechanics of the Freon evaporation cycle are the same in a refrigerator as in an air conditioner. According to the Merriam-Webster Dictionary Online, the term Freon is generically "used for any of various nonflammable fluorocarbons used as refrigerants and as propellants for aerosols."

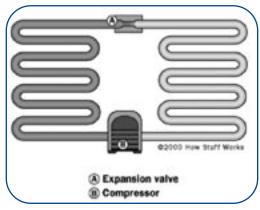


Diagram of a typical air conditioner

This is how the evaporation cycle in an air conditioner works (See How Refrigerators Work for complete details on this cycle):

- 1. The compressor compresses cool Freon gas, causing it to become hot, high-pressure Freon gas (red in the diagram above).
- 2. This hot gas runs through a set of coils so it can dissipate its heat, and it condenses into a liquid.
- 3. The Freon liquid runs through an expansion valve, and in the process it evaporates to become cold, low-pressure Freon gas (light blue in the diagram above).
- 4. This cold gas runs through a set of coils that allow the gas to absorb heat and cool down the air inside the building. Mixed in with the Freon is a small amount of a lightweight oil. This oil lubricates the compressor

BTU and EER

Most air conditioners have their capacity rated in British ther-

mal units (BTU). Generally speaking, a BTU is the amount of heat required to raise the temperature of one pound (0.45 kg) of water 1 degree Fahrenheit (0.56 degrees Celsius). Specifically, 1 BTU equals 1,055 joules. In heating and cooling terms, 1 "ton" equals 12,000 BTU.

A typical window air conditioner might be rated at 10,000 BTU. For comparison, a typical 2,000-square-foot (185.8 m2) house might have a 5-ton (60,000-BTU) air conditioning system, implying that you might need perhaps 30 BTU per square foot. (Keep in mind that these are rough estimates. To size an air conditioner for your specific needs, contact an HVAC contractor.)

The energy efficiency rating (EER) of an air conditioner is its BTU rating over its wattage. For example, if a 10,000-BTU air conditioner consumes 1,200 watts, its EER is 8.3 (10,000 BTU/1,200 watts). Obviously, you would like the EER to be as high as possible, but normally a higher EER is accompanied by a higher price.

Is the higher EER worth it?

Let's say that you have a choice between two 10,000-BTU units. One has an EER of 8.3 and consumes 1,200 watts, and the other has an EER of 10 and consumes 1,000 watts. Let's also say that the price difference is \$100. To understand what the payback period is on the more expensive unit, you need to know:

- 1. Approximately how many hours per year you will be operating the unit
- 2. How much a kilowatt-hour (kWh) costs in your area Let's say that you plan to use the air conditioner in the summer (four months a year) and it will be operating about six hours a day. Let's also imagine that the cost in your area is \$0.10/kWh. The difference in energy consumption between the two units is 200 watts, which means that every five hours the less expensive unit will consume 1 additional kWh (and therefore \$0.10 more) than the more expensive unit.

Assuming that there are 30 days in a month, you find that during the summer you are operating the air conditioner: 4 mo. x 30 days/mo. x 6 hr/day = 720 hours (720 hrs x 200 watts/hr) / (1000 watts/kW x \$0.10/kWh) =

Since the more expensive unit costs \$100 more, that means that it will take about seven years for the more expensive unit to break even.

AAAEA CALENDAR OF RECURRING EVENTS

Updated August 2003

January

- * Scholarship Award Committee appointed before 1/31
 - * Newsletter
 - * Career workshop
- * Monthly speaker seminar

February

- * Winter Business & Professional Networking Reception
- * Engineer's Week Thompson's Center Exhibit and Luncheon
 - * EIT classes begin
 - * ACT classes begin
 - * Career workshop
- Monthly speaker seminar
- * Technical Field Trip
- Winter visit to High School (with other professional arab associations)

* Auditing Committee appointed

March

- * Annual Hafleh March 29
 - * Newsletter
 - * Career workshop
- Monthly speaker seminar
- * EIT classes continue
- * ACT classes continue
- * The Nomination Committee submit to the President the slate of nominees by March 31
- * Family Bowling Event

April

- * Membership expires April
- * Career workshop
- * Monthly speaker seminar
 - * EIT classes end
 - * ACT classes end
- * Deadline for submittal of written statement to election committee-April 15
- * AAAEA Conference-April
- * Deadline for submittal of petition to nomination committee is April 20 (for those who did not submit before)

* Newsletter

May

- * Career workshop
- * Monthly speaker seminar
- * General Assembly/Election meeting-May 17
 - * Math tutoring ends

June

- * Picnic #1-June 8th
- * Career workshop
- Monthly speaker seminar
- * Technical Field Trip

July

- * Newsletter
- * Scholarship application deadline 7/31
 - * Career workshop
- * Monthly speaker seminar

August

- * Picnic #2 Saturday August 16
- * Career workshop
- * Monthly speaker seminar
- * Logo design contest submittals due
- * Math tutoring begins

September

- * Picnic #3 -Sept. 14th
 - * Newsletter
- * Career workshop
- * Monthly speaker seminar
- * EIT classes continue
- * ACT classes begin

October

- * Business owners/job networking meeting
- * Scholarship Committee interviewing applicants
- * Career workshop
- * Monthly speaker seminar
 - * EIT classes begin
- * ACT classes continue

November

- * Career workshop
- * Monthly speaker seminar
 - * ACT classes end
 - * Technical field trip
 - * Newsletter

December

- * Audit Committee meeting
- * December 5th Semi-Annual Meeting
 - * Career workshop
- * Monthly speaker seminar
- * Nomination Committee appointed before Dec. 31





7 Ways to Win the Desk Diet By Melissa Sperl for Weight Watchers.com

Desk-job dieters have a common concern: How am I supposed to lose weight when I'm sitting in front of a computer all day?

It's a good question, says Melinda Hemmelgarn, MS, RD, nutritionist at the University of Missouri in Columbia, Missouri. After all, "weight control is simply a mathematical equation—in order to lose weight, you must burn more calories than you take in." Sitting at a desk, you're sedentary and more likely to snack, so the equation you're shooting for can be thrown off-kilter.

Suggestions, Please? The answer, then, is to make the most of your desk's diet potential. We surveyed weight loss experts and dieters who've done it. Here are the tricks they believe work best.

- * **Snack wisely.** "A lot of people snack while they sit at the computer," says Hemmelgarn. If you're one of them, be prepared. Keep healthy options handy so you don't rush off for an emergency visit to the vending machine. We saw one dieter's smart suggestion on the message boards, too: Keep snacks not at your desk, but stowed away in a file cabinet. Out of sight, out of mind.
- * Drink up. In the same way, if water is in sight, you'll easily drink your six 8-ounces glasses by the end of the day. Keep a bottle or glass full of fresh water next to your computer at all times.
- * Plan lunch. "I eat half of my lunch at 11:30; then, when the mid-afternoon munchies hit, I eat the other half," wrote another dieter on the message boards. Scheduling your lunch to protect against cravings is smart. Also, suggests, Hemmelgarn, it's best to bring your lunch from home—that way, you can plan your POINTS intake.

- * Move! "Even if it's just 10 minutes of exercise at a time," says Leanne Wagner, a certified personal trainer based in Los Angeles, "get up and move whenever possible."
- * Exercise during off-hours. Get in exercise before and after work to make up movement lost to your computer. "If you don't live too far, think about walking to work," suggests Wagner. "And if that's not possible, instead of spending an extra hour sitting in traffic, find a gym near your office and go there instead. Once you're done exercising, rush hour will be over and you'll still be home at the same time."
- * Find help with friends. Get your co-workers in on the weight loss game. That way, you can encourage each other throughout the day, have healthy lunches together and exercise together on breaks. "I'm in a Weight Watchers At Work plan," wrote a member on the message boards, "so I have a fairly strong network of fellow [dieters] here on the job. I think that has been a huge help."
- * Use your tools. With Weight Watchers.com's online weight-loss tools, your computer can become an essential part of your plan. Use free time at your desk to log foods into your journal, plan your meals, research exercise options, get encouragement and advice in the Community, and more! Go to Weightwatchers.com to find the online weight-loss plan that works best for you.

Movable Bridges By Ahmad Hammad

Types of movable bridges:

- * Pontoon
- * Swing
- * Vertical Lift
- * Scherzer Rolling Lift Bascule
- * Trunnion Bascule

PONTOON:

- * Movable spans are supported at one end by a float (pontoon)
- in the water, and fixed at a pivot corner at the shore end.
- * Cables or chains anchored near shore are wound up to open the span.
- * Originally built to replace drawbacks that provided limited horizontal clearance.
- * In Chicago, first built was Clark St., 1840.

SWING:

- * Bridge rotates around a vertical axis on a permanent pier
- located in the center of the waterway.
- * When open, the bridge is aligned parallel to the waterway, creating a channel on each side.
- * Offers less obstruction to river traffic.
- * Pier is considered a navigational hazard.
- * In Chicago, first built was Rush St., 1856 for \$48,000.

VERTICAL LIFT:

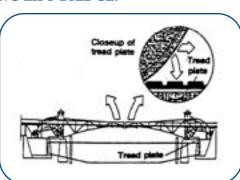
- Similar span to a fixed bridge.
- Lift span is raised and lowered by steel cables running over sheaves at the top of its towers.
- Cables are connected to counterweights that fall as the lift span is lowered and rise as it is lowered.
- In Chicago: existing example is the Torrence Ave. that opened 1938

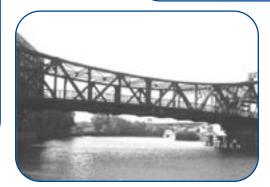


Lake Street, Chicago 1860's

SCHERZER ROLLING LIFT BRIDGE:

- Bridge is raised by gears that engage a drive rack at the rear of the span forcing it downward.
- In Chicago, existing example is the Cermak Rd., 1906



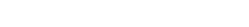


TRUNNION BASCULE (CHICAGO STYLE)

- Bridge rotates a round a horizontal axis parallel to the water-
- Electric motor engage a gear train at a pinion, forcing the bridge drive rack downward.
- Counterweight on the land side drops downward, the leaf rotates around the trunnion pin, while the forward part of the leaf opens upward over the channel.
- Movable span can be opened or closed in about 30 to 45 seconds.
- In Chicago: first built was Cortland St., 1906.
- Both leaves are balanced by counterweights filled with concrete or cast iron block.
- Requires only a small motor to raise thousands of tons of steel.
- City of Chicago owns and maintains 52 movable bridges, largest number of any city in the world.
- Columbus Drive Bridge spans 269 feet and the second largest bascule bridge in the world.







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Bridge Building Contest By - Soliman Khudeira

The Illinois Institute of Technology's (IIT) International Bridge Building Contest is an annual event where high school students from around the globe compete by building wooden model bridges. The models are first judged architecturally and then tested to destruction. The efficiency of each bridge is then calculated (efficiency = maximum load carried by the bridge / bridge self weight). The bridge that has the highest efficiency wins the contest. For more information about this competition, see www.iit.edu

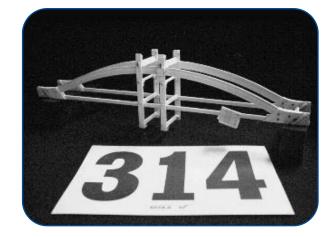


Architectural Judging - Janet Attarian.

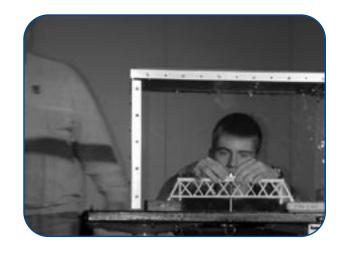


Bridge Testing-Jamal and Soliman & others.

The construction and testing of model bridges promotes the study and application of fundamental principles of physics & engineering and also helps high school students develop "hands on" skills through bridge construction. By participating in the Competition students get a flavor of what it is to be an Engineer, designing structures to a set of specifications and then seeing them perform their function.



One of the many bridges prior to testing.



A Student setting up his bridge for testing.



2003 International Winners - all from the State of Washington.

Humor (Cont'd)

Engineers and Lawyers

There was once an engineer who found a magic lamp. When he rubbed it, a genie jumped out and said to him, "You have three wishes. But there is a catch - this wish system of mine was designed by a lawyer, so whatever you wish for every lawyer in the world will get double of!"

The engineer replied, "That's no problem, I can live with that." He then said, "For my first wish, I wish I had a Ferarri." "OK", said the genie, and a Ferarri appeared in front of the engineer. "But remember, every lawyer in the world now has 2 Ferarris," the genie told the engineer.

The engineer remained unperturbed and said, "For my second wish, I wish for a million bucks." So a million bucks appeared in front of the engineer and the genie said, "remember, every lawyer in the world now has 2 million bucks."

The engineer was non-committal and then said, "I always wished I could donate a kidney!"

Engineers vs. Executives

Engineers and scientists will never make as much money as business executives.

Proof Postulate 1: Knowledge is Power.

Posulate 2: Time is Money.

As every engineer knows, Power = Work over Time

Since Knowledge = Power, and Time = Money, we get;

Knowledge = Work over Money

Solving for money, we find Money = Work/Knowledge

Thus, as Knowledge approaches zero, Money approaches infinity regardless of the Work done.

Conclusion: The Less you Know, the More you Make.

Note: It has been speculated that the reason why Bill Gates dropped out of Harvard's math program was because he stumbled upon this proof as an undergraduate, and dedicated the rest of his career to the pursuit of ignorance.



Date: Saturday August 16th, 2003 Time: 10:00 a.m. to dusk Location: Oak Brook Park District Directions: Take Rt. 83 (Kingery Rd.) to 31st Street. Go east on 31st Street. Go left on Jorei Blvd. Go left on Forest Gate Rd. to indoor Shelter.

This NEW picnic site has:

- * Indoor shelter/room with attached bathroom facility
- * Water Pond
- * Basketball courts
- * Volleyball courts
- * Soccer field with goals/posts
- * Etc.

Bring your own food, drinks, and lawn chairs. Please place your food in the indoor shelter.

Limited amount of Grilled hamburgers & chicken will be provided by AAAEA as a supplement to your own food. This will only be served between 12:30 PM & 1:30 PM.







Humor (Cont'd)

Q: How do you drive an engineer completely insane?

A: Tie him to a chair, stand in front of him, and fold up a road map the wrong way.



AutoCAD Monkey

A tourist walked into a pet shop and was looking at the animals on display.

While he was there, another customer walked in and said to the shopkeeper, "I'll have an AutoCAD monkey please." The shopkeeper nodded, went over to a cage at the side of the shop and took out a monkey. He fitted a collar and leash, handed it to the customer, saying, "That'll be \$5000." The customer paid and walked out with his monkey. Startled, the tourist went over to the shopkeeper and said, "That was a very expensive monkey. Most of them are only few hundred dollars. Why did that one cost so much?"

The Shopkeeper answered, "Ah, that monkey can draw in AutoCAD - very fast, clear layouts, no mistakes, well worth the money." The tourist looked at a monkey in another cage. "That one's even more expensive! \$10,000! What does it do?"

"Oh, that one's a Design monkey; it can design systems, layout projects, mark-up drawings, write specifications, some even calculate. All the really useful stuff," said the shopkeeper.

The tourist looked around for a little longer and saw a third monkey in its own cage. The price tag around its neck read \$50,000. He gasped to the shopkeeper, "That one costs more than all the others put together! What on earth does it do?"

The shopkeeper replied, "Well, I haven't actually seen it do anything, but it says it's an Engineer."



Top Ten Things Engineering School didn't Teach:

- 10. There are about 10 types of capacitors.
- 9. Theory tells you how a circuit works, not why it doesn't work.
- 8. Not everything works according to the specs in the databook.
- 7. Anything practical you learn will be obsolete before you use it, except the complex math, which you will never use.
- 6. Always try to fix the hardware with the software.
- 5. Engineering is like having an 8 a.m. class and a late afternoon lab every day for the rest of your life.
- 4. Overtime pay? What overtime pay?
- 3. Engineers rule the world until the next revision.
- 2. If you like junk food, caffeine, and all-nighters, then you should go into software.
- 1. Dilbert is a documentary.



Mechanical vs. Civil

Q: What's the difference between mechanical engineers and civil engineers?

A: Mechanical Engineers build weapons, Civil engineers build targets.



Announcements _

Our condolences to Jamil Elian on the passing of his mother. May God bless her and give her family patience.

Best wishes to Walid Elfranji's son fof full and speedy recoery.

Congratulations to Mohammad Asfar and wife on their new baby born boy Bilal.

Congratulations to Abder Ghouleh and wife on their new baby born boy Ahmad

Mabrook to Lana and Ahmad Hammad on thier you born baby girl, Reanna

Congratulation to Haytham Mustafa for passing the EIT

Best wishes to Azzam Hamdan in his medical surgery at University of Chicago Hospital.

Congratulations to Hanie Miri for beign elected to the position of the Vice Precident of th Illinois Engineering Council (IEC)

Membership Renewal _____

The 2003/2004 membership is due April 15 of every year. Please take a minute and renew your membership using one of the following methods:

1. Mail-in your check to:

AAAEA

P.O. Box 2160

Bridgeview, Illinois 60455

2. Re-new on-line (you have to be registered with

PayPal):

Log-on to www.aaaea.org and select "Join Us" then,

fill-out the application

with the changed information (if any).

Again, thank you for being part of the great AAAEA and

I look forward to a successful and prospers year.

Positions Wanted _

Seeking position:

An industrial engineer, owned and managed his business for 15 years, has no engineering experience is seeking any engineering related job.

if anyone can help, please contact:

Musa Tillawi

c/o Amjad kawash

708-588-3745 or 773-685-2436





Positions Available ___

Aspen Technical Staffing, Inc.

This is an established and respected 80 year old Architecture, Engineering, Construction and Interior Design firm. We are one of the largest multi-faceted engineering design firms in the U.S. Epstein is currently looking for technical leaders to join our MEP Department. Our beautiful corporate office is located in Chicago's West Loop, convenient to transportation. We offer all employees excellent wages and a competitive benefits package.

We are seeking a licensed Chief Electrical Engineer to lead our electrical engineering team. The ideal candidate will have a Bachelors Degree in Engineering with 15-20 years progressive commercial and industrial experience in electrical design within a consulting engineering firm and proven success as a leader on large projects. Experience in power distribution, lighting and building codes is preferred. Experience with telecommunications & data integration as well as the capability to coordinate with other building design disciplines is a must.

We require 10 years of supervisory experience with groups of 5 or more technical staff. Strong Microsoft Office skills are also required. We are looking for the right person to manage our well-qualified team, interact with clients, develop new business opportunities and work as one with the rest of the management team.

Amy Negrete
Vice President
web:www.atstaffing.net
Aspen Technical Staffing, Inc.
Office #630-904-8566
Cell #630-650-3900

1] American Geo Engineering has an opening for a level 1 or 2 Asphalt and/or Concrete inspector engineer. Contact Mohammed Salem at (630) 932-9900. Salary based on qualifications.

2] Civil engineer with geo-technical and environmental background with PE for a Chicago based company. Contact Idris Omari at (312) 762-2911.

The next Career Enhancement Workshop will be held next Wednesday 7/23/2003 from 5 to 6 PM at the offices of Advance Consulting Group, 300 W. Adams St., Suite 322, Chicago, IL.

Please RSVP by Tuesday ASAP. Contact Eyad Elqaq at (312) 357-1840 or email eyad@acgintl.com.

The URS Construction Management/Program Management (CMPM) Division has on going; employment opportunities for experienced project and program managers and construction specialists with experience in one or more of the following areas:

Construction and Program Managers
Transit Systems, Hospitals, Schools, Community
Colleges, Universities, Water&Wastewater, Arenas and
Convention Centers, Municipal Structures,
Entertainment Complexes and Airports.

Specialists

Project Cost Engineers, Estimators, Schedulers, Inspectors, and Resident Engineers, Test & Inspection and Demolition specialists.

Alert

Engineering Operations Managers. URS Signet Testing Labs, a leader in construction test and inspection has immediate needs for experienced operations engineers to

Positions Available (Cont'd)

lead operations for either the Sacramento or Hayward Offices. Position requires five or more years' proven operational and business development experience, effective communication written and oral communication skills. An engineering degree and professional registration as a CA civil engineer are required, geotechnical engineering registration a plus.

Alert

Special inspectors-field technicians. Signet. Has immediate needs for experienced with ICBO, CWI, MT/UT certifications, for projects throughout the SF Bay Area, Sacramento Valley and Central Valley Inspectors.

Alert

Construction Management Staff. Formed as Advatech, the joint venture between URS and Mitsubishi America Heavy Industries provides engineering and construction management services to the TVA on one of its largest flu gas desulpherization projects. Those with CM experience on fossil fuel energy plant construction are encouraged to express their interest.. URS-Advatech employees will work in Chattanooga, TN or Paradise, KY (Project site).

Staffing anticipated for September 2003. Call or email Jim McDonald for more information.

Log on to the URS lotus notes Sourse and follow /Human Resources/Location/Position Title to over 100s of openings by location or by using a key word search. The Bulletin is now located on the SoURSe under Forums. Just follow the tabs.

Tip! Applicants, vendors or others who may benefit from knowing more about CM/PM can be referred to the URS website by accessing URSCorp.com, and then clicking on, Who We Are, What We Do, Americas, business areas, Services, Clients, Project Types, Project Portfolios.

For a complete listing of URS jobs in Illinois and nationwide, please visit:

http://www.urscorp.com/careers/jobops/index.html

Please mention (Dr. Maher Abu-Mallouh) as a reference abumallouh@hotmail.com

Humor

There was an engineer who had an exceptional gift for fixing all things mechanical. After serving his company loyally for over 30 years, he happily retired. Several years later his company contacted him regarding a seemingly impossible problem they were having with one of their multi-million dollar machines. They had tried everything and everyone else to get the machine fixed, but to no avail. In desperation, they called on the retired engineer who had solved so many of their problems in the past.

The engineer reluctantly took the challenge. He spent a day studying the huge machine. At the end of the day he marked an "x" in chalk on a particular component of the machine and proudly stated, "This is where your problem is." The part was replaced and the machine worked perfectly again.

The company received a bill for \$50,000 from the engineer for his services.

They demanded an itemized accounting of his charges. The engineer responded briefly:

One chalk mark...........\$1
Knowing where to put it.......\$49,999
It was paid in full and the engineer retired in peace.



To the optimist, the glass is half full.

To the pessimist, the glass is half empty.

To the engineer, the glass is twice as big as it needs to be.





