

VOL. 68
NO. 5



Franklin County Chapter
Ohio Society of Professional Engineers

FEBRUARY 2010

Columbus Engineer

Official Publication of the Franklin County Chapter of the Ohio and National Societies of Professional Engineers

PRESIDENT'S MESSAGE

By Leon Winget, Ph.D., P.E. / FCC President

Greetings Franklin County Chapter Members. We had our first luncheon of the year. The topic was well presented and another new technology available to us as engineers "3D Laser Scanning", was demonstrated. Many of the 20 attendees stayed-over for the extended session. Adam Clouse and Brian Elbe demonstrated the capabilities of the new technology. They further presented several case studies and different types of applications, which expounded the value and efficiencies gained in speed, accuracy and safety of the 3D Laser Scanning.

Remember that Engineer's Week is February 14 – 20 and our annual Engineer's Week Luncheon will be held February 17, 2010. Plan on attending, you will find it well worth your time. Dr. Giorgio Rizzoni, Director of the OSU Center for Automotive Research, will discuss the changes that are coming to your car and home. He will describe the latest innovations in energy storage, personal mobility and more. Detailed information regarding the luncheon can be found below.

The regional MathCounts event will be held at Columbus State University on February 20, 2010 and more than 50 schools are registered to compete. This is the largest event the Franklin County Chapter of OSPE sponsors each year. Joe Bolzenius has ample number of volunteers for the February 20 competition, but we still need volunteers for the State competition on March 13. If you would like to see some very astute math students perform in front of audience of over 500 peers, parents and coaches, come to Delaware Hall at CSCC around 1:00 pm on February 20, or 2:00 pm on March 13. You will be amazed. Are these students the future engineers?

The technology of the future will be greatly different than what we old timers are familiar. When most of us were students, we the engineers were those nerds that had a one-foot long brown or black leather case hanging from our belts and many books under our arms. Now the students have in their pockets, an electronic device that allows them to call anyone in the country and that has the computing power which exceeds that of the 1960's mainframe computer. In the near future, the engineering students will carry a "tablet" that will contain the information of hundreds of engineering texts.

Clearly, a transformation in our societal and educational system is underway and there is no telling where it will be in the next quarter century. What we do know is that certain sectors and technologies will greatly change our profession. Changes in the immediate future are imminent from the emerging smart grid to the electric vehicles, to the upcoming space exploration and beyond.

There is a growing concern that the United States is not preparing a sufficient number of students, teachers, and practitioners in the areas of science, technology, engineering, and mathematics (STEM). Several of our programs are directed toward increasing the interest of "our students" to the scientific and engineering profession. Although our (FCC) inputs may be small, they are a start. We, as professional engineers, must take it upon ourselves to help mentor, directly or indirectly, the students that will be "the" future engineers.

Please stay tuned, as there is more coming on the "Future Engineer".

CENTRAL DISTRICT SCIENCE DAY

Once again this year the Franklin County Chapter will be a Sponsored Award Organization for the Central District Science Day. District Science Days are Science Fair competitions for students in grades 5 through 12. They are the academic equivalent of a District athletic championship. They are held on college and university campuses and are administered by the University and District Councils. Currently sixteen colleges and universities host District Science Days in Ohio.

The Central District event will be held on March 20th at Columbus State Community College. Projects that are devoted to any of the different engineering disciplines are eligible for the Franklin County Chapter awards. Grading is based on the knowledge achieved, effective use of the scientific method or engineering design process, clarity of expression, originality and creativity. Awards of \$150, \$100 and \$50 will be presented to our top three finishers.

Judges are needed for the event, so if you are interested please email Joe Sullivan at joe.sullivan@stantec.com. Sponsored Award Judges are asked to report to Room 137, Union Hall at 8:30 AM for a brief orientation. Judging begins at 9:00 AM and concludes at approximately 11:30 AM, so the time commitment is short.

Participants in District events who are judged with a superior rating go on to the State Science Day. This year's State Science Day will be held May 8th 2010 at French Field House and St. John Arena on the Ohio State University Campus.

For more information please contact Joe or visit the Central District Science Day Web site <http://www.csc.edu/docs/science/>.



**AEP AMERICAN
ELECTRIC
POWER**

Platinum Level Sponsor

Since 1970

CRITERIUM[®]
LISZKAY ENGINEERS

**Professional Engineers Performing
Residential and Commercial Building Inspections**

110 N. High Street, Gahanna, OH 43230
Office: (614) 418-7200 Fax: (614) 418-7270
www.clengineers.com



**Civil & Environmental
Consultants, Inc.**

Senior Leadership
Integrated Services
Personal Business Relationships

Civil & Site Development Engineering
Environmental Services
Ecological Services
Solid Waste Services

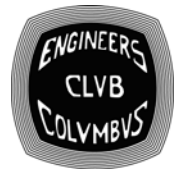
Nicholas W. McCullough, P.E.
Tele: 888.598.6808
Web: www.cecinc.com



ms consultants, inc.
engineers, architects, planners

2221 Schrock Road
Columbus, Ohio 43229-1547
614.898.7100
info@msconsultants.com
www.msconsultants.com

Offices in Ohio, Indiana, Pennsylvania, West Virginia & North Carolina



ASHE, APWA, ASCE, Engineers Club, IEEE, ITE, OSPE, and WTS Present:

Engineer's Week Luncheon

Wednesday, February 17th

Villa Milano

1630 Schrock Road
Columbus, OH 43229

11:30 AM Registration

12:00 Noon Luncheon



Keynote Speaker:

Dr. Giorgio Rizzoni

Director, OSU Center for
Automotive Research



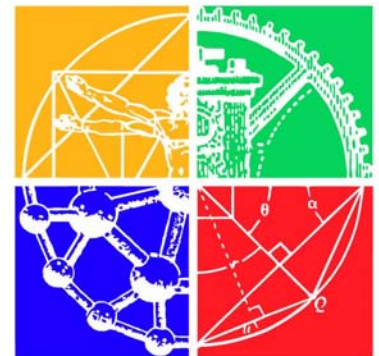
What changes are coming to your car and home? Come hear Dr. Rizzoni describe the latest innovations in energy storage, personal mobility, and personal eco-systems.

Lunch choices include:

- 1) Chicken Piccata**
- 2) Lasagna (Vegetarian)**

Cost: **\$25 Pre-Registered/Pre-Paid**
\$15 Students
\$35 at the door (*depending on availability, walk-ins may not be accepted*)

Register by **Friday, February 12th** online at www.centralohioashe.org or by contacting Lisa Doonan at Burgess & Niple (LDoonan@burnip.com : 614-459-7272 Ext. 1474) or Christine Brahler (Ext. 1408) Please pay in advance via credit card online (PayPal) at www.centralohioashe.org or by sending a check (payable to "ASHE Central Ohio Section") to Lisa Doonan at Burgess & Niple, Inc., 5085 Reed Rd., Columbus, OH, 43220.



**ENGINEERS
WEEK® 2010**
February 14 - 20

MEMBERSHIP DIRECTORY

The 2009-2010 FCC-OSPE Membership Directory will be emailed to members later this month. The information listed in the directory is obtained from the NSPE database. This database is compiled from the information you provide NSPE on your dues statement.

If any of the info shown in the Directory is missing or incorrect, please make a note of it and correct it the next time you renew your membership. You can also make corrections on the NSPE website.

Just login and navigate to the "My Information" page where you can add or edit your profile information. If you have problems, NSPE Member Services can be contacted by dialing 1-888-285-NSPE (6773).

The Directory will be provided in PDF format. If you would like a hard copy, please contact Joe Sullivan at 614-486-4383 or drop him an email at joe.sullivan@stantec.com.

FEBRUARY AUXILIARY EVENT

The Auxiliary to the Franklin Co. Chapter of the OSPE will meet at noon for lunch on Tuesday, February 16, at LaScala Restaurant, 4199 W, Dublin-Granville Rd., Dublin.

Ed Lentz, historical consultant will speak about more recent history of Columbus and central Ohio. Barbara Fuller will give the invocation and lead the Pledge of Allegiance; Sharon Eifert is to be hostess.

Prospective members and guests are always welcome. For a reservation call Jean Mitchell at 262-7071.



Engineers, Surveyors & Construction Managers

Dynotec, Inc. - EDGE Certified Engineers
2931 E. Dublin-Granville Road, Suite 200
Columbus, Ohio 43231
614.880.7320 Fax: 614.880.7324
www.dynotecinc.com

Roadways – Bridges – Water/Wastewater – Traffic/Signals - Lighting
Surveying – Environmental Impacts – Construction Management



CONTECH Bridge Solutions offers a full range of plate, precast and truss options for your project's needs.

As highly skilled solutions providers, we are ready to support you in very phase of your project.



www.contechbridge.com • 800-526-3999

Unique Management & Consulting Firm Serving the Construction Industry



H.R. Gray
FOR CONSTRUCTION SUCCESS

COLUMBUS, OH
614.487.1335

www.hrgray.com



Construction Management : Program Management : Owner's Representative
Claims Management : ADA Consulting



6121 Huntley Rd. • Columbus, OH 43229
Phone: 614/888-0040 • Fax: 614/848-6712

www.dlz.com

Baker

Michael Baker Jr., Inc.
2720 Airport Drive, Suite 100
Columbus, OH 43219
(614) 418-1773
FAX (614) 418-1701
www.mbakercorp.com

ENGINEER FOR A DAY PROGRAM

On February 17th various industries, consultants and government entities throughout Franklin County will be hosting high school Juniors and Seniors who will be participating in the Engineer for a Day program where they will be introduced to engineering. There will be 15 organizations participating this year along with approximately 60 high school students.

The organizations participating this year are: American Electric Power, Applied Engineering Group, Ltd., BBC&M Engineering, Inc., CDM, City of Columbus, City of Dublin, Dynotec, Inc., Emerson Network Power, H.R. Gray, Hull & Associates, Inc., Malcolm Pirnie, Inc., MJ Engineering & Consulting Inc., ms consultants, inc., Office of Franklin County Engineer, and Shirk & O'Donovan Consulting Engineers, Inc.

When the results matter now...and years from now.

BURGESS & NIPLE Engineers ■ Architects ■ Planners



burgessniple.com

5085 Reed Road ■ Columbus, OH 43220 ■ 614.459.2050
Other Ohio offices: Akron, Cincinnati, Cleveland & Painesville



(614) 882-4311
Fax (614) 882-4479
350 Worthington Road, Suite B
Westerville, OH 43082
www.kleingers.com

Urban Revitalization | Energy | Waste Management | Environment

From strategy development through design and construction management, Hull's Civil Engineering team can help.

Hull
& Associates, Inc.

614.793.8777
www.hullinc.com

Profession Engineers in Industry NEW PRODUCT AWARD

New and improved products stimulate the life and growth of our country. These benefits result from research and development to which engineers make their unique contribution. This competition recognizes the results of those efforts and the foresight of the companies whose aggressive policies bring new products to the marketplace.



The purpose of the NSPE/PEI New Product Award program is to recognize the full spectrum of benefits that come from the research and engineering of new products. These include added employment, economic development, strengthening of the nation's competitive position internationally, and contribution to the public's standard of living.

Any new product, machine, process, or material that has been developed in the United States may be entered provided that it was first placed on the market between **2003 and 2007**.

OSPE has the same award at State level.

Franklin County Chapter is asking members to identify any company that may provide a service or product that meets the qualifications above. There are small, medium, large, and mega company awards. There is no entry fee to file for the State award. Please contact Steve Wilson, sfwilson@aep.com for detail information. Applications are due to OSPE by **March 31, 2010**.

(Portions of the above was excerpted from "2009 NSPE/PEI New Product Award - Information and Instructions")



FIRST CLASS

OHIO SOCIETY OF
PROFESSIONAL ENGINEERS
Franklin County Chapter
P.O. Box 69
Reynoldsburg, Ohio 43068

2010 CALENDAR

Feb. 10	5:30 p.m.	FCC Board Meeting @ Korda Nemeth
Feb. 15	5:00 p.m.	Deadline for March <i>Columbus Engineer</i>
Feb. 15-21		National Engineer's Week (see www.eweek.org)
Feb. 16	Noon	Auxiliary Luncheon
Feb. 17		Engineer for a Day Program
Feb. 17	11:30 a.m.	E-Week Luncheon at Villa Milano
Feb. 20	8:00 a.m.	Local Mathcounts Competition at Columbus State Community College
Mar. 13		State MathCounts Competition at Columbus State Community College
Mar. 15		Deadline for April <i>Columbus Engineer</i>
Mar. 20		Ohio Engineering & Surveying Certificate Ceremony
Mar. 20		Central District Science Day Event at Columbus State Community College
Mar. 25		FCC-OSPE Luncheon
Mar. 27		FCC-OSPE Family Event - Bowling
April 22		FCC-OSPE Luncheon
May 8		State Science Day Event at OSU
May 27		FCC-OSPE Officer Installation (tentative)