



Spokane Chapter

Washington Society of Professional Engineers
http://www.washingtonengineer.org/Spokane_chapter.htm

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“Developments in Carbon Sequestration Technology: Durian for Engineers”

Presented by: Dr. Peter McGrail of the Pacific Northwest National Laboratory

Date: Tuesday, March 16, 2010

Time: 11:45 A.M. – 1:45 P.M.

Location: Wolf Lodge Steakhouse
104 S. Freya Street, Spokane, WA

Parking: Free parking in the lots to the east of Wolf Lodge.

Lunch: Order from a select menu.

RSVP to Leonard Byrne via email (byrne@cet.com) or phone (928-8561)

All are Welcome!!

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CHAPTER NEWS

March Speaker

Dr. McGrail has been a staff member at Pacific Northwest National Laboratory for more than 27 years and has attained the position of Laboratory Fellow, the highest level of scientific achievement at PNNL. He directs a wide variety of research projects in greenhouse gas emission management aimed at developing technologies deployed both above- and below-ground. For example, he is working on new types of nanostructured sorbents for CO₂ capture from fossil-fuel power plants, work that was recently featured in Nature Materials. Dr. McGrail's research team discovered the unusual heat-carrying capacities of these nanomaterials, which led to development of a new type of biphasic fluid to improve efficiency of geothermal power systems, a result highlighted in Scientific American and Popular Mechanics. Dr. McGrail led the subsurface design team during the national site selection process for the FutureGen project, the first near-zero emission coal-fueled power plant in the world. He is currently directing a field research pilot study near Wallula, Wash., to determine suitability of deep flood basalt formations for permanent CO₂ sequestration. Dr. McGrail manages the Zero Emission Research & Technology Center at PNNL, which is conducting groundbreaking work on the reactivity of molecular water solvated in supercritical CO₂, among other basic science studies of key importance for designing CO₂ capture and sequestration systems. He has over 150 publications to his credit and has given over 100 presentations at international conferences.

2010 Spokane Chapter MathCounts

Area middle-school students competed in the 2010 **MATHCOUNTS** regional competition on Saturday, February 27th. Congratulations to all our mathletes! The top two teams and top four individuals will be attending the state competition on the Microsoft Campus on March 20th, with the opportunity to attend the national championships in Orlando, Florida. It was a fun and exciting competition!

1st place team: St. Georges School
2nd place team: Northwood Middle School
3rd place team: Sacajawea Middle School

Thank you to our sponsors, NAC|Architecture and Spring Environmental. Also, a big thank you to our **volunteers** who made it possible! With your help we are providing today's students with the foundation for success in science, technology, engineering, and mathematics careers. See you next year!

Provided by Nichol Pettis, P.E

2010 Carl M Hanson Scholarships

Eight applications were received this year but only six applicants met the requirements so these six were awarded scholarships. We're waiting for acceptance letters from the students.

Provided by Alan Gay, P.E

2010 Bridge Building Contest

Area high-school students competed in the 2010 Bridge Building contest in Herak Hall at Gonzaga University on February 19th and 20th. Thirty-one bridges were evaluated. The top ranked students based on their bridge efficiency (which is defined as the weight supported relative to the weight of the bridge) were:

- 1st Place: Katie Asbury, Home School
- 2nd Place: Angela Asbury, Home School
- 3rd Place: Jason Warren, University High School
- 4th Place: Colter Gaul, Home School

Provided by Ray Briggs, P.E

Chapter Financial Report

As of February 23, 2010, the Chapter balance is \$5054.19 plus receivables of \$2100.00.

Spokane Chapter WSPE Year Ending June 30, 2010			
Beginning Balance	1-Jul-09		\$ 6,372.55
Expenses			
Bridge Contest	\$	2,024.72	
EIT Course	\$	-	
MathCounts	\$	210.05	
Misc	\$	354.80	
Income			
Bridge Contest	\$	563.06	
EIT Course	\$	-	
MathCounts	\$	-	
Misc	\$	708.15	
Subtotals	\$	2,589.57	\$ 1,271.21
Net Income			\$ (1,318.36)
Ending Balance			\$ 5,054.19

Provided by Bruce Turner, P.E

Spokane Board Meeting – December 2, 2009

Attendance: Leonard Byrne, Beth Hodgson

Meeting held at NAC Engineering, 3:00 PM to 3:45 PM

Non Agenda Items

Larry Larson gave an informative presentation on the North Spokane Corridor. We had an 11 members and three non members in attendance.

WSPE Spokane Chapter Board Meeting Agenda

1. Membership Initiatives

- A. Status of survey - Survey has been outlined. Further work will have to wait until January
- B. Chapter Reference - not started yet
- C. Contact Managers of Local Engineering offices - not started yet

2. Chapter Meetings

- A. December 16 - Christmas party at Beth's, invitation was to go out 12/4
- B. January 19 - Nichol, has been in touch with the Mayor's office. They are interested and checking the date.
- C. February 9 or 16, with Neal Sealock - Bruce to confirm date, 2/9 preferred and topic, federal gov experiences preferred
- D. rest of year - no discussion

3. Status and Requirements for new year for standing projects

- A. Bridge Building - no report
- B. Scholarships - Letters and applications have gone out, reminder was to go out 12/4
- C. Math Counts - Alan Bain will be in town and helping with Mathcounts. The Mathcounts files and materials are missing. They are not at the Krazan office, which is where Scott believes they were being stored.

Action Items

- Bruce Turner Follow up with Neal Sealock on 2/9 date and topic
- Nichol Pettis Follow up for January meeting
- Alan Bain Set up meeting with Beth, Leonard, and possibly Doug Sowder to try to get going on MathCounts

Prepared by: Leonard Byrne, PE

NOTICE BOARD

Bits & Bytes from PacificCAD

Autodesk is changing their software upgrade pricing structure on March 16 and members should call our office if they have any questions about it. On March 16, 2010, Autodesk will introduce Simplified Upgrade Pricing. Autodesk® 2007 software will no longer be eligible for upgrades, and 2008 and 2009 software will have higher upgrade pricing. Make your move today—get the latest Autodesk software and save!

Recognition – Bruce Turner, PE

The Electric Board acts in an advisory capacity to the Electrical Section of the Department of Labor and Industries. The Board consists of fifteen (15) members each from a different segment of the electrical construction industry in the State of Washington. Bruce holds the Licensed Professional Engineer position on the Board. Other members include electrical and telecommunications utility companies, electrical contractors and manufacturer's representatives. The Board advises the Department on amendments to the National Electrical Code and journeymen training issues. The Board also hears appeals regarding corrections and fines issued by Labor & Industries Electrical Inspectors. Each member is appointed to a 4-year term that may be renewed twice.

Recognition – Nichol Pettis, PE

Results of the October PE and FE exams were distributed via e-mail and letter in early January. Nichol Pettis, who has been very active with our 2008-2009 webinar series and the 2010 MathCounts contest, was recognized as a PE as a result of these notifications.

Job Opening - Washington State Department of Ecology

Air Quality Program, Central Region Air Quality Engineer, Yakima, WA
Salary: \$61,632 - \$80,892 annually

The Washington State Department of Ecology's Air Quality Program is recruiting for an Air Quality Engineer. The position is primarily responsible for air quality permitting and regulatory oversight of industrial and commercial sources of air pollution. More information on qualifications and the application process is available at <http://www.ecy.wa.gov/jobs/CurrentOpenings.html> .

First Screening of Applicants: February 8, 2010.

Note: Current recruitment is for a Professional Engineer. If a qualified candidate is not found, the position may be reclassified. If you are interested in this position, but do not meet the Professional Engineer requirement, please contact Lynnette Haller (lynnette.haller@ecy.wa.gov).

Additionally, Ecology's Water Quality Program has an engineering opening, not yet posted, also located in Yakima, WA. If you are interested in this position, please contact Rick Frye (richard.frye@ecy.wa.gov).

Job Openings – NSPE's Job Board

NSPE has a Job Board that you may be interested in at <http://www.nspe.org/Employment/JobBoard/index.html> [The five most recently posted jobs appear on the NSPE homepage at <http://www.nspe.org>]

You may also be interested in advertising in the Career Mart section of PE magazine. You'll find the details in our media guide at <http://www.nspe.org/resources/pdfs/advertising/2010MG.pdf>

Dave Siegel, Communications Director

2009 – 2010 CHAPTER OFFICERS

Executive Board:

President	Leonard Byrne, PE	928.8561
President.Elect	OPEN	
Vice President	OPEN	534.9711
Secretary/Treasurer	Bruce Turner, PE	624.8125
Trustee (2 nd Year)	OPEN	
Trustee (1 st Year)	OPEN	
Past President	Leonard Byrne, PE	928.8561
WSPE President	Beth Fifield Hodgson, PE	328.7500

Chapter Committee Chairs:

Engineers Week	<i>Not held during 2009</i>	
Explorer Post #725	Howard Pettibone, PE	747-8257
Math Counts	Nichol Pettis, PE	328-7500
Membership	Beth Fifield Hodgson, PE	328.7500
Model Bridge Building	OPEN	
Newsletters	Beth Fifield Hodgson, PE	328.7500
Scholarships	Alan Gay, PE	328.5139

2010 CALENDAR OF EVENTS

January 2010 22 – 23: WSPE BOT @ Bellevue	February 2010 ??: Carl M Hanson Interviews 19-20: Bridge Building Contest 27: Spokane MathCounts	March 2010 ??: WSPE MathCounts @ Microsoft's Redmond Campus
April 2010	May 2010 14 – 15: WSPE Annual Meeting and BOT @ Tri-Cities	June 2010
July 2010	August 2010	September 2010 ??: WSPE BOT
October 2010	November 2010	December 2010

** Check the monthly newsletter for meeting locations **