

## Richard Dupree

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**From:** AIChE Pittsburgh Local Section [membership@aichepgh.org]  
**Sent:** Thursday, October 21, 2010 1:20 AM  
**To:** rrd@dupreeonline.com  
**Subject:** November Meeting :: Save The Date!

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# AIChE Pittsburgh

## NOVEMBER MEETING :: SAVE THE DATE!

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National Chemistry Week  
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### National Chemistry Week



Volunteers are needed for the National Chemistry Week event on October 23rd!

We are looking for volunteers for the AIChE booth at the National Chemistry Week celebration at Carnegie Science Center. The event will be held on

## November Meeting Announcement Wednesday, November 17, 2010

Water Management During Hydraulic Fracturing of Marcellus Shale  
for  
Natural Gas Production

Speakers: Dr. K.B. Gregory and Dr. R.D. Vidic

Location: Spaghetti Warehouse, 26th & Smallman Streets, Strip  
District, Pittsburgh PA

Free parking behind the restaurant.

Social Hour 6:00 pm, Dinner 6:30 pm, Talk 7:30 pm

*For reservations, please call Connie Zaremsky by  
Monday, November 15 at  
724-554-3691  
or by email at*

*connie.zaremsky@netl.doe.gov*

### November Meeting Details

Wednesday, November 17, 2010

The process of hydraulic fracturing which liberates natural gas from shale produces large volumes of high-strength wastewater known

Saturday, October 23rd from 10 am from 5 pm.

Volunteers are needed for the following shifts:

9:30 AM - 1:30 PM

1:00 PM - 5:00 PM

9:30 AM - 5:00 PM

All volunteers will receive a free lunch and parking. To volunteer or for more information, please contact

Julia Johnson at:

724-258-2776 or

[Julia.A.Johnson@flexsys.com](mailto:Julia.A.Johnson@flexsys.com)

## Pittsburgh Local Section Officers

Ted Andersen, Chair  
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as "flowback". Flowback water is commonly a brine solution, laden with metals and hydrocarbons which originated in the shale formation. The economical management of flowback water for energy production and environmental stewardship is challenging. A variety of conventional desalination and disposal technologies have been suggested for flowback water management but their application is often limited by environmental regulations, regional topography, or a lack of sufficient infrastructure. However, novel approaches toward water management during hydraulic fracturing enable economical recovery of shale gas while greatly minimizing waste volumes and their associated environmental risk. The challenges and emergent water treatment and management strategies for produced water from hydraulic fracturing will be described from recent data collected during natural gas production from the Marcellus Shale in the U.S.

## **Water Management During Hydraulic Fracturing of Marcellus Shale for Natural Gas Production**

AICHe-Pittsburgh; ACS-Pittsburgh Chemistry Club; Energy Technology Group; and Pittsburgh Energy Technology Group

Speakers: Dr. K.B. Gregory and Dr. R.D. Vidic

**Location: Spaghetti Warehouse, 26th & Smallman Streets, Strip District, Pittsburgh PA**  
**Free parking behind the restaurant.**

**Social Hour 6:00 pm, Dinner 6:30 pm, Talk 7:30 pm**

**For reservations, please call Connie Zaremsky by Monday, November 15 at 724-554-3691 or by email at [connie.zaremsky@netl.doe.gov](mailto:connie.zaremsky@netl.doe.gov). Our meetings are open to all.**

The cost of the dinner is \$16 including tax and gratuity. Please specify your preference: spaghetti with meatballs, 15-layer lasagna, four-cheese manicotti, fettuccini alfredo, or grilled chicken Caesar salad. Also please indicate special needs such as vegetarian, gluten-free, etc.

*Kelvin B. Gregory, Ph.D., is an Assistant Professor of Civil and Environmental Engineering at Carnegie Mellon University. Dr. Gregory's research is focused on advancing environmental biotechnology for water treatment through an enhanced understanding of the underlying principles of biogeochemistry and microbial ecology. Current projects aim to enhance our understanding of biological and geochemical processes occurring during treatment of produced water from oil and natural gas development, develop contaminated sediment applications for electrode-based biotechnology, and enhance the understanding*

Jim Miller, Newsletter Editor  
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Allegheny County Health  
Department

Dick Dupree, Webmaster  
Dupree & Associates

Mariangela Peters, Secretary  
Bayer Business & Technology  
Services, LLC

*of how microbes and nanomaterials interact in the environment.*

*Radisav D. Vidic, Ph.D., P.E., is William Kepler Whiteford Professor of Environmental Engineering and Chairman of the Department of Civil and Environmental Engineering at the Swanson School of Engineering, University of Pittsburgh. His research efforts focus on advancing the applications of surface science by providing fundamental understanding of molecular-level interactions at interfaces, development of novel physical/chemical water treatment technologies, water management for Marcellus shale development, and reuse of impaired waters for cooling systems in coal-fired power plants. Dr. Vidic was elected by the Pittsburgh section of the American Society of Civil Engineers as 2008 Professor of the Year.*

## Calendar Of Events & New Employment Opportunities

AICHe Pittsburgh's 2010-2011 Program contains many opportunities to gather with area Chemical Engineers for social networking, continuing education, and professional development:

- NATIONAL CHEMISTRY WEEK, October 22-23, 2010, Carnegie Science Center
- NOVEMBER MONTHLY MEETING, November 17, 2010, Spaghetti Warehouse, Pittsburgh, PA
- JANUARY JOINT MEETING WITH AMWA, Details TBA
- SPOT THE HAZARD! A Practical Approach to Hazard Identification, March 2010, Details TBA

Also check our website for local employment opportunities:  
[www.aichepgh.org](http://www.aichepgh.org)



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