



PENN-OHIO BORDER SECTION NEWSLETTER

September Meeting

Thursday, September 25th

7:00 p.m.

Speaker

Dr. Michael J. Wade

**Forensic Geochemistry of
Subsurface Gasoline
Contamination --
Whose Gasoline Is It, and
When Was It Released?**

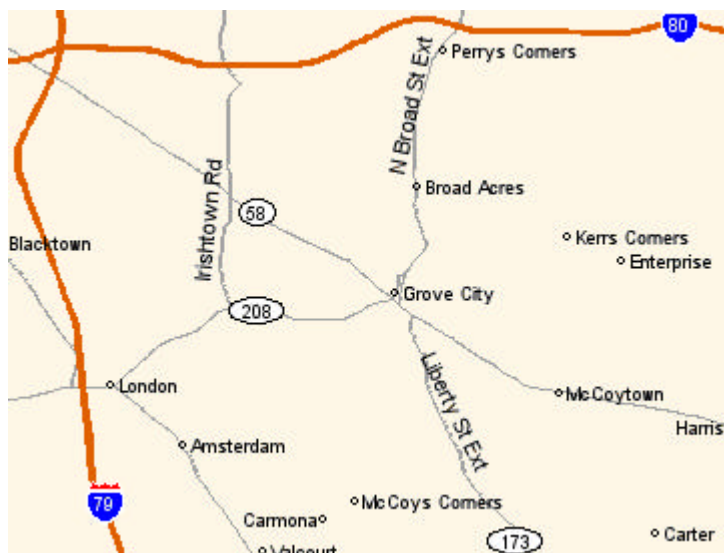
**Grove City College
Hall of Arts and Letters**

Abstract

An assessment of subsurface petroleum contamination was completed at a gasoline service station using a historical data set covering a span of eight years containing groundwater concentration of BTEX compounds (benzene, toluene, ethylbenzene, and xylenes) plus methyl t-butylether (MTBE). Data were used to determine the type(s) of petroleum present and to estimate the age of onset of identified subsurface petroleum contamination. Two different gasoline hydrocarbon distributions were found within distinct zones at the property related to previous releases. Contamination from newer gasoline was restricted to the immediate area of the service station. Away from the property, subsurface hydrocarbons were identified whose presence was attributed to an older gasoline. Results of the forensic geochemical assessment were used to allocate relative responsibility for environmental cleanup costs among principal responsible parties.

Directions to Grove City

1. From I-79 take Exit 113 onto Rt. 208 East into Grove City to the first traffic light. Turn right onto Main Street (Rt. 58) and proceed to Madison Avenue. Turn left onto Madison Ave. and the Hall of Arts and Letters (Building 10) along with parking is located on the left-hand side. (See map next page.)
2. From I-80 take Exit 24 onto Rt. 173 South into Grove City. Follow Rt. 173 as it winds through town. Turn left onto Main Street (Rt. 58). Proceed to Madison Avenue and turn left. The Hall of Arts and Letters (Building 10) along with parking is located on the left-hand side. (See map next page.)



Grove City College



Hall of Arts and Letters - Building 10

National Chemistry Week is October 19 – 25th!! To celebrate this important event, the Thiel College chapter of SA-ACS will be hosting a “Kids & Chemistry” program on Sunday, October 26th from 2-4 pm. It will be a fun-filled afternoon of demonstrations and hands-on activities for students in grades 4-6. If you are interested in helping out or have a child who would like to attend, please contact Kathy Frantz at 724-589-2113 or kkfrantz@thiel.edu.

Penn-Ohio Border Section

American Chemical Society
Dr. Helen Boylan
Chemistry Department
Westminster College
New Wilmington, Pa 16172

Officers

Chairman

Dr. Helen Boylan
Chemistry Dept
Westminster College
New Wilmington, Pa 16172
(724) 946-6293
boylanhm@westminster.edu

Past Chairman

Dr. Richard Bretz
901 Country Manor Dr.
North Lima, OH 44452-9579
(330) 549-9494
rbretz@zoominternet.net

Chair-elect Needed

Secretary

Dr. Douglas Motry
Chem Dept, Kent State Salem
2491 St Rt. 45 S
Salem, OH 44460
(330) 337-4289
motry@salem.kent.edu

Treasurer

Dr. Mike Serra
Chem Dept, Youngstown State U.
Youngstown, Ohio 44555
(330) 941-3667
maserra@cc.yosu.edu

Councilor

Dr. Steven M. Schildcrout
Chem Dept, Youngstown State U.
Youngstown, OH 44555
(330) 941-7114
smschild@cc.yosu.edu

Alternate Councilor

Doris L. Zimmerman
1390 Waverly Dr, NW
Warren, OH 44485
(330) 847-2284 (also FAX)
zimdoris@aol.com

COUNCILOR'S REPORT ON THE 226th NATIONAL MEETING

New York, September 7-11, 2003

Membership Affairs Committee. Our petition to allow pre-college teachers to qualify for regular ACS membership has been reworded and should come to Council in the spring. We made suggestions for the next quinquennial ChemCensus survey of members' employment situations to come in 2005. The ACS website chemistry.org is being improved, as are non-technical benefits such as insurance, credit cards, and discounts on car rentals, hotels, and travel. ACS membership is up 350 over last year to 156,374 at midyear.

District II councilors' caucus. Our district director, Diane Schmidt, discussed ACS finances and negotiations on the possible merger of AIChE into ACS. AIChE has 40,000 members of whom 8000 are also ACS members. At the meeting of the **Budget & Finance Committee** (to which I liaison from MAC) it was reported that we will end 2003 with a \$3.1M deficit. Assets are recovering slowly. There has been a slump in advertising and publication income but strong performance by CAS and positive results from the spring national meeting. After large losses in previous years, ACS investment gains year-to-date are \$16.5M

Council meeting. President Reichmanis is working with the Department of Homeland Security and with other scientific societies for increased cooperation. She is concerned that U.S. R&D may go overseas. Past-President Pearce said we need progress in salary and other benefits for chemists, and ACS needs to increase its legislative influence on education and research. Chair of the Board McClelland outlined the draft strategic plan for 2004-06. It will seek to expand the definition of chemistry to include multidisciplinary fields (such as biochemistry and materials science, which are not chemistry according to the federal government), increase inclusiveness, improve products and services for members, use zero-based budgeting, and focus on sp^2 (science, the public, and the profession). The Board is searching for a new Executive Director (CEO) since John Crum (who signs your membership card among other duties) retires at the end of 2003 after 40 years of service. From other reports: high school teachers attending national ACS meetings may soon get CE credits; the unemployment rate for chemists is high at 3.5%; the National Employment Clearing House in New York had 1372 candidates for 290 jobs; authors will no longer be permitted to submit the same meeting abstract to multiple divisions; the advance registration fee for national meetings in 2004 will be \$285; regional meeting abstracts will be online; CAS and Elsevier will be linked in online searches through SciFinder, STN, or Elsevier; the 7th edition of "Safety in Academic Chemistry Laboratories" is now available in both a student and a faculty version; international scientific activities are being impacted by federal restrictions on visas, exchanges and information; there are 629 ACS-approved bachelors programs with one recently dropped; the Directory of Graduate Research for 2003 will be available in October; there has been a gratifying increase in women nominees and winners of ACS awards; Project SEED has helped 7000 students over the past 35 years; remember to support it with your dues check-off.

I would be happy to receive your comments or questions about this report or about ACS.

Steve Schildcrout