

**PROGRAM: TOUR OF MATCO FAILURE ANALYSIS LABORATORY**

There's a world-class failure analysis laboratory in Pittsburgh! Four scan electron microscopes, an FTIR spectrometer, and a host of state-of-the-art equipment are available to perform failure analysis, corrosion investigations, metallurgical testing, product R&D, forensic engineering, and many other activities. **MATCO** has created a niche in the market by offering efficient and creative problem solving abilities, rapid turn-around times, and diverse capabilities. We will tour this remarkable facility and hear about their work from those who do it. Also, examples of this work will be presented and explained.

Matco Associates, 4640 Campbells Run Road, Pittsburgh, PA 15205; Telephone: 412-788-1263

Please see inside for more information.

**WHEN:** Tuesday, October 8, 2002  
Reception: 5:30-6:30 p.m.  
Dinner: 6:30-7:30 p.m.  
Program/Tour: 7:30 p.m.

**WHERE:** Red Bull Inn  
5202 Campbells Run Road  
Pittsburgh, PA 15205  
Telephone: 412-787-2855

**MENU:** **Buffet in the Terrace Room**  
Entrees: Grilled chicken, English style scrod, sliced roast beef  
Garden salad with garnishes and dressings, warm bread and butter, parsley potatoes, vegetable, beverage  
Dessert: ice cream parfait sundae or chocolate mousse

**DIRECTIONS:** Red Bull Inn is located off Campbells Run Road Exit of Parkway West.

**COST:** Presentation at 7:30 p.m. – No charge  
Reception, Buffet, and Tour

Non-member	\$20.00	Student	\$10.00
Member	\$18.00	Retired	\$15.00
		Unemployed Member	\$10.00

**RSVP:** **412-261-4300**  
You can make your reservations by calling the Engineering Society of Western Pennsylvania.  
**Please make your reservations as early as possible and certainly by noon on October 7, 2002.**



**2002—2003**

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**PROFESSIONAL PROFILE**

**DR. MEHROOZ ZAMANZADEH**

(From Dr. Zamanzadeh's Curriculum Vitae)

Dr. Zamanzadeh is a materials specialist with over twenty years of practical experience in the fields of failure analysis and materials characterization. He has worked with many different materials groups to determine the root cause of failure in materials-related industries, such as chemical, oil and gas, construction, manufacturing, and commercial aircraft industries. Before becoming the Manager of the Metallurgical Division of PSI in 1987, Dr. Zee functioned as the Senior Corrosion Specialist and Materials Engineer of the Metallurgy Department. In 1993, he joined MATCO Associates, where his research resulted in a series of patents and several new hot dipped alloy products that completely replaced Terne coating for both carbon steel and stainless steel production lines at Follansbee Steel. Because of the new alloy coatings, Follansbee Steel is one of the few steel companies exporting coated steel products to Europe and Japan.

Dr. Zamanzadeh's degrees include a B.S. and M.S. in Materials Science and Engineering as well as a Ph.D. in Materials Science from Pennsylvania State University. He joined NIOC as a Research Fellow upon completion of his doctoral work in 1980. In 1985, he joined Carnegie Mellon University in the capacity of a Post Doctoral Research Associate under a grant from IBM. He holds four certifications from NACE International that includes Material Selection and Design Specialist, Corrosion Specialist, Cathodic Protection and Coating Specialist.

Dr. Zamanzadeh also functions as the primary consultant and principal investigator on all fracture, corrosion, and materials failure analysis related engineering projects. Having performed literally thousands of failure analysis projects, the tour and comments at MATCO will focus on the tools, techniques and insights required to successfully perform this type of work.

Howard M. Earnest



**PITTSBURGH SECTION**

## REPRINT

### SAE INTERNATIONAL CHANGES FOR THE PITTSBURGH SECTION

This is a year of great change for SAE! As SAE International moves ahead, some of the changes resulted in the evaporation of some of the help that the International has provided to the Pittsburgh Section in the past. SAE printing can no longer print and mail our section newsletter; allow the use of SAE Headquarters for Section meetings; allow the use of SAE Headquarters for Pittsburgh Section Governing Board meetings; provide printed materials to us for Section use; and take reservations for Section meetings. We very much appreciate all of this help and are sure that they will continue to help us in every way that they can, but we must now find new ways of getting these tasks accomplished.

First, we are going to push into the 21<sup>st</sup> century by delivering our Pittsburgh Section newsletter by electronic communication. The newsletter will be e-mailed to all members possible with a “reject” option attached. Members without e-mail will be mailed a printed copy of the newsletter with a “continue” option attached. In this way, every SAE-Pittsburgh member will have the opportunity to positively choose whether he/she wants to receive the newsletter:

1. By e-mail,
2. By regular mail,
3. By e-mail *and* regular mail, or
4. Not to receive the newsletter.

If you are interested in receiving the newsletter by e-mail, you may simply send an e-mail with SAE Newsletter in the subject line to the e-mail address below. Or you may send a letter to the address below or call the telephone number listed.

Howard M. Earnest  
1553 Wilson Road  
Pittsburgh, PA 15236

E-mail: viiltd@pobox.com

Telephone: 1-412-655-1616

The governing board meetings, to which all members are invited, will be held at Domenico's at 20550 Route 19 North in Cranberry, PA. Come and join in and contribute your ideas to the group.

This is an exciting year. There is a great line-up of technical programs and the opportunity to exchange ideas with a great group of people.


**NOTE:** Due to circulation problems and the importance of the electronic communication issue, this is a reprint of last month's article about e-mail newsletter choice. There has been an encouraging response, but the numbers are low.

### **PITTSBURGH SECTION MEETING SCHEDULE FOR 2002-2003**

- SEP 02            NASA Presentation - Automotive Materials  
Speaker - Gary Miller  
Garland Steyer  
September 10, 2002 @ Holiday Inn - RIDC Park North
- OCT 02            MATCO Laboratories - Industrial and Forensic Testing; Laboratory Services Tour  
Speaker - Dr. "Zee" (Dr. Mehrooz Zamanzadeh)  
Bob Nocivelli  
Dinner – Red Bull Inn on Campbells Run Road  
October 8, 2002 @ MATCO Laboratories in Robinson Township
- NOV 02            Detroit Diesel Tour - Diesel Engine Technology  
Speaker - Joe Manzione  
Dale Doult  
November 7 or 14, 2002 @ Cranberry Facility
- DEC 02            Frick Mansion and Carriage House Tour - Architecture, History, and Classic Cars  
Speaker – Frick Tour Guides - \$8.00 per person, Tour begins at 6:30 p.m.  
Ron Lichalk  
Dinner – Post meeting and individual  
December 4, 2002
- JAN 03            No Meeting (Consider President's Night Visit)  
Brian Taylor - Coordinator, SAE International
- FEB 03            Lubrication Meeting  
Speaker - Ken Henderson  
Ross Stewart  
February 11, 2003 @ Sheraton Inn, Cranberry
- MAR 03            Pittsburgh Vintage Grand Prix Presentation and Videos  
Speaker - Mr. Michael Connelly  
Wayne Ferens  
March 11, 2003 @ Domenico's Ristorante
- APR 03            Student Night  
Speakers - College Student Representatives and Students  
Gary White  
April, 2003 @ Peter's Place Restaurant
- MAY 03            PPG Paint Presentation and Tour - Paint Trends  
Speaker – Scott Moore, Training & Technical Service Rep., Automotive Refinish  
Facility  
Gary White  
Mav 13. 2003 @ PPG Research Center. RIDC Park


### **GOVERNING BOARD MEETING**

The next Governing Board Meeting will be at  
Domenico's Ristorante  
20550 Route 19 North  
Cranberry Township, PA  
Monday, October 21, 2002  
Pizza and Salad Dinner and Meeting at 5:30 P.M.



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•Read by 500+ members Fall through Spring  
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