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DETROIT POST  
DEDICATED TO THE NATIONAL DEFENSE

THE SOCIETY OF AMERICAN MILITARY ENGINEERS  
P.O. Box 3026  
Detroit, Michigan 48231-3026  
(313) 226-6748 (Post Secretary)  
(313) 226-2013 (Fax)

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## DECEMBER 2007 SAME MEETING

**TOPIC: The Upper Rouge Tunnel: Geotechnical Challenges of Rock Tunneling in Southeast Michigan**  
**Sponsor: TBD**  
(Earn 1 Professional Development Hour)

**SPEAKER:** Mr. Moideen Mathari, P.E, Somat Engineering Inc will discuss the Upper Rouge Tunneling project. After evaluating various control alternatives for treatment of stormwater discharges along the Rouge River, the feasibility study team has selected a 200 million gallon storage tunnel in rock and a pump station as the most feasible alternative for treatment. Because of the specific geological setting of the area in the past, the design and construction of rock tunnel often posed challenges to engineers. The geotechnical investigations conducted during the initial phases of the project included borings, packer tests, geophysical tests, and pump tests. To avoid complications while tunneling through weathered Breccia and Limy Shale, the initial plan was to design a tunnel in two levels by splitting in the middle using a transition shaft. Additional investigation conducted during the design phase included vertical and inclined borings, Acoustic Televiewing, packer and hydraulic fracture tests, and 4000 feet of horizontal boring within the transition zone. With the additional geotechnical data and rock test results, the design team is now in a position to design the 30-foot diameter, seven mile tunnel in a single level. A biographical summary is included in the newsletter.

**DATE:** Wednesday, December 12, 2007

**TIME:** 11:30 am until 1:30 pm

**PLACE:** Detroit Club, 712 Cass Ave., Detroit, MI

**MENU:** Grilled New York Strip Steak served with a natural just and simmered mushrooms, vegetable of the day, rice, dinner rolls, coffee and tea, cookie and brownies for dessert.

**PRICE:** \$25.00

**RESERVATIONS:** Please e-mail Pam Horner by December 10<sup>th</sup> if interested in attending.

**BOARD OF DIRECTORS MEETING:** Will be held at the Detroit Club at 10:30 a.m.

### SUSTAINING MEMBERS

ADP Consulting, Inc.  
Bayshore Contractors, LLC  
Duro-Last Roofing, Inc.  
GZA GeoEnvironmental, Inc.  
Lakeshore Engineering Services  
Materials Testing Consultants  
RTI Laboratories, Inc.  
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SOMAT Engineering, Inc.  
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**DETROIT POST S.A.M.E. NEWSLETTER**  
**DECEMBER 2007**

**DETROIT POST WEB SITE:** Please note that the Detroit Post web site: [www.same-detroit.org](http://www.same-detroit.org). Please check the web site monthly for meeting announcements and monthly newsletters. Sponsored by: Futurenent Group.

**SUPPORT OUR TROOPS:** SAME asks for your support of our Troops and their families this Christmas.

As Christmas and the New Year approach, we will all have the chance to count our blessings and enjoy the companionship of our loved ones in the warmth and safety of our homes and communities...

At the same time, I ask you to remember that we have 250,000 U.S. men and women deployed overseas to Iraq, Afghanistan and other 'hot spots' in the world putting their lives at risk on our country's behalf. Many of those are young enlisted troops separated from their spouses and children who suffer additional hardships here in our country while they wait for their loved ones.

One of the best ways we can honor our troops overseas is to care for and watch over their families while they serve. At this month's meeting, SAME will be asking each of you to make a donation to support the local families of our deployed military.

Please bring your checkbook and give generously.

**LEFEVRE EDUCATION AWARD:** The Detroit Post is now accepting nominations for the Mary LeFevre Education Award. The Detroit Post established the Mary LeFevre Education Award in memory of a very dedicated employee of the U.S. Army Corps of Engineers, Detroit District. While working full time, Mary LeFevre's diligence and pursuit of excellence included completion of a Bachelor's degree. She was an inspiration to all individuals that knew her personally and professionally. The education award is given annually to an individual that is working at least 24 hours per week and is also currently enrolled in an accredited college.

Award Amount: \$1,500

Criteria: must be pursuing a bachelor's degree in their chosen field of study while working at least 24 hours per week.

Eligibility criteria and a nomination form can be obtained from our web site: [www.same-detroit.org](http://www.same-detroit.org) or by contacting Pam Horner at (313) 226-6748. The education award will be presented at the February 2007 meeting.

Deadline: All applications must be submitted by January 31, 2007 by e-mail to [pam.horner@usace.army.mil](mailto:pam.horner@usace.army.mil) or mailed to:

Pam Horner, CELRE-PL-E  
U.S. Army Corps of Engineers  
P.O. Box 1027  
Detroit, MI 48231-1027

**HIGH SCHOOL GRANT:** A High School Club Research Grant will be awarded for science and engineering clubs at the high school level in the metro Detroit school districts. The purpose of this grant program is to award \$1,000 to high school clubs that conduct research. Last year, the award went to Novi High School Robotics Team for a community robotics project to reach out to senior communities in the vicinity. Typically, members of high school clubs have to fund their research out of their own pockets and it is financially hard on the students and the teacher. This program helps ease their need for research funding. Help us get the word out to the local high schools. The education award committee will make contact with local schools to apply for the grant. Applications are due by the end of January 2008. Any questions should be directed to Connie Boris, Education Committee chairperson at 313-881-2240.

**MEMBERSHIP DRIVE:** The Membership Committee is hosting a GOVERNMENT EMPLOYEE MEMBERSHIP DRIVE.

The Detroit Post is interested in increasing membership of metro Detroit government employees, including the Corps of Engineers, TACOM, and Selfridge ANG to allow government entities to interact and participate with our organization. Therefore, we are hosting a membership drive at reduced rates to government employees through December 2007. The Detroit Post SAME invites government employees to a reduced 1 year membership rate of \$25.00. The Detroit Post is planning to meet occasionally throughout the year at TACOM and Selfridge ANG bases to give those government employees the opportunity to interact with Post activities on a regular basis. The regular luncheon meetings will continue to be held in downtown Detroit.

In addition to a reduced membership rate, the Detroit Post is also offering government employees a reduced luncheon cost of \$10.00 through December 2007. Government employees who are not SAME Members are welcome to the SAME Luncheon reduced rate once per calendar year. Additional luncheon attendance will require full payment (unless you become a SAME Member).

There are many benefits being a SAME member, including the following:

- Promote and facilitate engineering support for national security
- Build and enhance relationships and competencies among uniformed services, public and private sector engineers and related professionals
- Stay on top of developments in the AE field including contracting, design, environment and emerging technologies
- Participate with other organizations such as ESD, MSPE, ACE
- Earn continuing education credits at monthly luncheons and annual meetings
- Participate in activities that support our Education Award Fund
- Mentor Young Members

If you are interested in joining during our government employee membership drive, please contact Pam Horner, Post Secretary, for further details ([pam.horner@usace.army.mil](mailto:pam.horner@usace.army.mil)).

**MEMBERSHIP:** It is very important that you keep your membership contact information current. Without current contact information for our members, the Detroit Post and SAME HQ are unable to send out important membership information such as membership cards, certificates, magazines and invoices. Additionally, if SAME HQ does not have current information on members, the membership Post Roster reports will reflect outdated information and result in members not being contacted with important information. Currently, SAME HQ receives quite a bit of return mail and e-mail each month for incorrect addresses and/or no forwarding address. The U.S. Post Office charges a fee for returned mail and SAME HQ would prefer to put this money to better use.

You can update your contact information by e-mailing their change of address information to SAME HQ, or by going online to [www.same.org/memberupdate](http://www.same.org/memberupdate). Keeping your contact information current benefits you and the entire Society. Please be advised that presently the SAME Web site requires two different logins depending on the Web activity. For all members who wish to view "Member's Only" areas such as Society, Regional and Post Operations, and Member Benefits must use their last name and six-digit numeric member ID. Individual members, who wish to update their contact information, must use the e-mail address we currently have on file for them and a unique password. If they do not know their password or have forgotten it, they can e-mail the membership department at [member@same.org](mailto:member@same.org). Sustaining Members must use their last name, member ID and e-mail address in order to update their contact information using the web. If there is no e-mail on file in your membership records, you need to call SAME HQ membership department and have then input your e-mail.

Much effort is required to address undeliverable mail and we greatly appreciate your assistance in updating your contact information to make this job easier.

**COMMITTEES:**

**PROFESSIONAL DEVELOPMENT:** The Detroit Post offers Professional Development Hour (PDH) credits for attendance at designated SAME events. The Professional Development Committee will maintain records and track PDH credits earned by attendees at Post events. Mr. Carl Woodruff has volunteered to run the program. PDH certificates will be provided at the monthly meetings for the current month's meetings. You must be registered for the luncheon for the PDH credits to be valid. If you need a copy of your past credits, please contact the chairperson, Mr. Carl Woodruff. If you have any questions, feel free to contact Mr. Woodruff at (313) 226-2202 or by e-mail at Carl.L.Woodruff@usace.army.mil.

**AFFILIATE SOCIETY:** PLEASE VISIT THE ESD CALENDAR OF EVENTS FOR SCHEDULED EVENTS ([www.esd.org](http://www.esd.org))

**BIO:** Mr. Mathari is working, as a senior project manager, for Somat Engineering Inc, an infrastructure consulting firm headquartered in Detroit, Michigan. He is involved in the Upper Rouge Tunnel Project, Detroit River Outfall Tunnel Project, Dearborn CSO Control Program, Detroit River International Crossing, and Ambassador Gateway Project, all in the Detroit area. Other major projects in which Mr. Mathari was involved includes: I-15 Reconstruction Project in Salt Lake City, Utah and international projects such as King Fahad International Airport Project, King Fahad Medical City, and Jubail Industrial City.

For the past 30 years, Mr. Mathari has worked on a number of local, state, federal, and international projects, such as tunnels, highways, buildings, bridges, and airports. His expertise include geotechnical sampling, testing, and reporting; analysis, design, and construction of foundations and retaining structures; design, analysis, and supervision of piling; geotechnical instrumentation & monitoring; structural distress evaluation of buildings, bridges, and pavements; non destructive testing; and rehabilitation of constructed facilities.

Mr. Mathari's educational credentials include: Bachelor of Science in Engineering (Civil Engineering) - National Institute of Technology, India, Master of Science in Engineering (Civil Engineering) - Michigan Sate University, East Lansing, and a Master of Science in Engineering (Construction Engineering & Management), University of Michigan, Ann Arbor.

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**SUSTAINING MEMBER NEWS**  
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Hello SAME Sustaining Members,

Monthly Sponsors - I am sending an invitation for one of our members to sponsor the monthly luncheons. The cost is \$200.00, which will pay for the room and equipment rental. You will also be given a 5-minute spotlight to present an overview of your company. I will be periodically sending a list of speakers and the topics to facilitate sponsorships ahead of time, so we can give your company the recognition in the newsletter. Please contact me at 419.944.4591 (cell) with any questions or sponsorship commitment.

Anne Parker, Chairperson