



# The Macrogram

Hartford Chapter of the ASM International  
Build on our Strengths - Leverage our Diversity - Network to Succeed

## MONTHLY MEETING – TOPIC

April 17, 2008

Joint ASM-SOCT/ASM-Hartford/ACS  
Materials Week Meeting

The Golden Age of Trucking Museum Tour  
Topic: Direct FuelCells Greening America

Speaker: Andrew J Skok  
Executive Director, Strategic Marketing  
FuelCell Energy ([www.fuelcellenergy.com](http://www.fuelcellenergy.com))  
Danbury, CT

**Directions: Golden Age of Trucking Museum,**  
1101 Southford Road, Middlebury, Connecticut 06762,  
Ph: 203-577-2181. From I-84 Westbound - Exit number  
16 Turn right onto CT-188. Golden Age of Trucking  
Museum is 0.48 miles along 188 on the right. From I-  
84 Eastbound - Exit number 16 Turn right onto CT-188.  
Golden Age of Trucking Museum is 0.60 miles along  
188 on the right ([www.goldenagetruckmuseum.com](http://www.goldenagetruckmuseum.com))

**Agenda:** Tour/Cocktails: 5-6:30 PM  
Dinner: 6:30-8:00 PM  
Program: 8:00-8:45 PM

**Program Charges:** Regular Members - \$25.00  
Retirees - \$20.00  
Full Time Students - \$10.00

Members who wish to attend the technical presentation  
and/or visit the museum only are welcome. There will be a  
\$10/adult \$5/child fee to help cover the facility charges.

**Technical Chairperson:** James Steele  
**Reservations:** Call Shirley at Dynamic Metals (860)  
583-3336 by noon April 14th. **Thanks!**

### Abstract:



This presentation is on Direct FuelCell(R) commercial applications and their positive impact on the environment. It will cover the commercial and industrial use of the smaller DFC 300 and DFC 1500 products and also discuss the recently awarded DFC 3000 utility applications through the CT Project 100 program. This will include a discussion on the DFC-ERG Milford 9 MW project, the world's largest fuel cell project.

### Bio:



Mr. Skok is a senior marketing executive for FuelCell Energy in Danbury CT where he has over 29 years of experience in many different management positions. Areas of focus have included R & D, first of a kind demonstration projects, new product development, development of a world-class field service group, sales, business development, and marketing.

Mr. Skok has first-hand experience with power plant operability, reliability, instrumentation, operator training and customer interfacing. He has directed field construction and operations of the world's first full-size 1.8 MW carbonate fuel cell power plant in Santa Clara CA. In this role, he supervised all power plant site activities including permitting, construction, process testing, electrical interconnection with the Utility, power plant testing, and interaction with sponsors, visitors and other agencies. He has also led the design, fabrication, quality testing, design verification, start up and testing of the company's first DFC300 power plant. After the successful introduction of this early product, he played a major role in the design improvements presently being incorporated into the current production units. Mr. Skok's prior responsibilities have ranged from fundamental R&D to technical support and training to the companies OEM distributors, certification of the company's products, and technical support for the company's New Product Introduction (NPI) process.

Mr. Skok received his undergraduate degree in Materials Engineering from Wilkes University and attended the Yale University's Chemical Engineering Graduate School. He has published numerous technical articles, is past Chairman of the International Standards Committee IEC TC 105 on Fuel Cell Installation, and actively participates on many other national and international committees.



The Golden Age of Trucking Museum is a non-profit organization that was founded in 1998 by the late Richard J. Guerrero. Mr. Guerrero was a successful businessman who owned a trucking company which was in operation for over

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35 years. As the company became successful, Mr. Guerrero began to purchase and restore antique vehicles. He housed them in barns all over the state and would often take them to truck shows and offer them for use in local parades. In 1998 he founded The Golden Age of Trucking Museum and purchased land to build a home for the organization. He passed away in 1999, but his wife, Frances Guerrero, carried out his wishes by building a 32,000 square foot facility to house the antiques. His dream came to fulfillment in 2002 when the museum opened its doors.

The 18 antique trucks and 2 antique boats that belong to the Guerrero family will remain in the museum forever. However, the other 30 or more antique cars and trucks are on loan to the museum. They find their home in the museum for one year and are then rotated out to make room for others. This keeps the exhibits new and exciting. The Memory Lane display greets you with Crosley cars and collectibles as well as an extensive display of first gear models. As you make your way into the showroom you will find a pristine display of Diamond T, Mack, Pierce Arrow, Kenworth, Sterling, White, GMC, Dodge, International, Brockway, Federal, Jeep and Autocar trucks from the early 1900's through the 1970's. There are also stock cars from the Danbury Race Arena along with memorabilia and

hundreds of photographs and artwork pieces. The Waramaug Way exhibit displays two antique boats and an extensive array of vanity license plates. The Interactive Interstate display is geared for children. There is a cut-away of a Volvo tractor complete with a sleeper that the children can get into and pretend to drive. There are games, toys, blocks, puzzles, books, computers, and videos to watch. The Golden Age of Trucking Museum has been chosen as an Editor's Choice in the 2006 edition of the Yankee Magazine Travel Guide to New England.

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 for the Annual Golf  
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## Hartford Area ASM Materials Camp™

Undertaking this camp, which is a great outreach event on materials to high school students, has some basic needs:

- **Costs** – No Charge to Students; Transportation must be provided by the participants.
- **Audience** – Entire Junior class (50-60 students) of the University High School for Science and Engineering (Magnet school located on the University of Hartford campus) plus other high school students
- **Location** - UConn IMS facilities in Storrs, CT
- **Timing** - Monday, October 20<sup>th</sup> or Monday, October 27<sup>th</sup> 8:30 AM to 3:30 PM
- **Station owners** (*Please submit application*) - Owners would determine the content of the station and gather the resources for 64-100 students. Stations (8-9) will involve students in hands on experiments or demonstrations. Each presentation is to be approximately 20 minutes long and is to be given 8-9 times during the camp to groups of 8-12 students. A take away item from each station to remind students of the experiment or demonstration is desirable.

**Some possibilities for station topics include:**

<b>Glass &amp; Ceramic</b>	<b>Polymers</b>	<b>Materials Identification</b>	<b>Fuel Cells - Efficient Energy Generation</b>
<b>Microstructure</b>	<b>Casting</b>	<b>Shape Memory Alloys</b>	<b>Heat Treatment &amp; Mechanical Properties</b>
<b>Superconductivity</b>	<b>Corrosion</b>	<b>Aerospace Materials</b>	<b><i>Your idea (Submit a Proposal)</i></b>

- **Volunteers** – for Registration, Groups escorts, assist in setup (day before) and teardown (immediately after)
- **Funds** – We are soliciting local companies to provide
  - Materials Camp™ T-shirts or Hats
  - Materials Camp™ Tote Bags for station take away items
  - Materials Camp™ Notebooks and Pens to record observations
  - Lunch
  - Appreciation gifts for volunteers

**Contact:** Arnie Grot (email: [chair12@asm-hartford.org](mailto:chair12@asm-hartford.org), mail: 87 Chapman Dr., Glastonbury, CT 06033)