



February 1999 Meeting Notice

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The Education of Mechanical Engineers for the 21st Century
by Dr. Francis A Kulacki University of Minnesota

Date: Tuesday, February 23, 1999
Time: Social - 6:30 Dinner - 7:00 Presentation ~ 7:45pm
Place: The Conference Center & Inn
Madren Center Dr. Clemson University (map below)
Cost: \$16.00 for dinner - entree choices below
Identify selection when making reservation:
1) Chicken Neptune 2) New York Strip 3) Vegetable Pasta Primavera

Reservations: required by 2/16/99 at noon
Contact Georges Fadel (864 656-5620 - work,
e-mail address at left) or call Section VoiceMail 370-5119

Dr. Francis A. Kulacki is Professor of Mechanical Engineering at the University of Minnesota. He will discuss "The Engineering School in the 21st Century - An Organizational Shift for Education and Research" in his presentation, part of the 1998-1999 ASME Distinguished Lecturers Program.

See page 3 of newsletter for more details.



## CHAIRMAN'S MESSAGE

The November meeting was great! I certainly enjoyed the 25 and 50-year membership certificate presentations. There were three 50-year members and six 25-year members from the Greenville Section in attendance.

Additionally, the special recognition for election to Fellow grade membership was given to Dr. Frank Paul and Dr. Craig Brandon.

National Engineers Week 1999 will be celebrated February 21 – 27. In conjunction with this the ASME Greenville Section will be hosting or participating in several events. I hope to see you at the February meeting(s):

1) Dr. Kulacki presentation , 2) tour of Tate Metal Works (see page 4) and 3) joint meeting with NCPE in Asheville (see below).

Also, note that it is time for Section officer nominations for next year. If you are interested, please contact me.

Jim Batton

## February Meeting in Asheville

The Joint Engineering Societies meeting in Asheville will be at the University of N.C. at Asheville (UNC-A) on 2/24/99. The meeting will be a tour of the teleconferencing facility used to downlink classes at NC State University. Beginning last fall, UNCA began offering a four-year engineering degree from North Carolina State University. The degree is a general Bachelor of Science and Engineering degree, but with a concentration in *Mechatronics*, a discipline only recently finding its way into the United States.

Mechatronics, which stems from *Mechanical* and *Electronics*, is a relatively new approach to product design and development merging the principles of electrical, mechanical, computer and industrial engineering. It addresses the interconnected disciplines of all four in complex

modern devices. Mechatronic systems are typically composed of traditional mechanical and electrical components, but are referred to as "smart" devices or systems due to the incorporation of sensors, actuators, and computer or control systems.

To make a reservation for this meeting, contact:

Joe Walker  
Western Carolina University  
828-227-7442  
jwalker@wpoff.wcu.edu

## Upcoming Events

March 4	Old Guard Competition
March 26-28	ASME Regional Admin. Conf. Lexington, VA
April 20	TBA
May 18	TBA

## Honors and Awards

**Craig Brandon**, Honors & Awards Chair

### Local ASME Member Honored

Dr. Ting Wang, a resident of Anderson, SC and a full professor at Clemson University, was honored by ASME International for his high-level technical expertise and leadership relating to gas turbine technology. He was also recognized for his contributions as an educator, researcher, consultant and member of the committees of the International Gas Turbine Institute (IGTI). Dr. Wang received the George Westinghouse Silver Medal. The medal was presented at the International Joint Power Generation conference in Baltimore in August 1998.

ASME's George Westinghouse Silver Medal was established in 1971 to perpetuate the value of rich contribution to power development made by George Westinghouse, honorary member and 29<sup>th</sup> president of ASME. It recognized eminent achievement or distinguished service in the power field of mechanical engineering.

## CLEMSON ASME STUDENT CHAPTER

**Tommy Holland**, Student Relations Chair

Several of the Clemson University ASME student chapter officers attended and participated in the 1/19/99 Greenville Section Executive Committee meeting. Their presence and input was welcomed and valuable to the Section.

The CU ASME student chapter is an active group. On Saturday 1/30/99 a number of students from the chapter volunteered their time to help install playground equipment at East End Elementary School in Easley, SC. The equipment purchase was funded by the school's PTO, but the PTO was dependent upon parents and volunteers such as the CU students to assemble and install the equipment. Thanks for your help to the community ASME Student Chapter!!!!

### **NOMINATIONS BEING ACCEPTED** **Greenville Section**

The nomination and election of ASME Greenville Section officers for 1999-2000 will be taking place over the next month. ANY member of the section is eligible to nominate others for an office. We will also accept VOLUNTEERS for committee positions during the nomination process. Please consider how you might serve the section. The ASME provides many opportunities for leadership development and training. If you have nominations or interest in a particular office, please contact Jim Batton at (864) 885-3893 or Don Baldwin at (864) 882-5660 x618 for details. Section Positions include:

#### Elected Officers

-Chairman                      -Vice Chairman  
-Secretary                    -Treasurer

#### Committee Chairs:

-Membership Interests and Development  
-History and Heritage            -Programs  
-Newsletter Editor               -Student Relations  
-Industry Relations              -Public Information  
-Honors and Awards              -Gov't Relations  
-Professional Development  
-Professional Practice and Ethics

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### **Dr. Kulacki – continued from Page 1**

The Distinguished Lecturers program provides opportunities for ASME members and guests to meet and listen to outstanding researchers and practitioners. Local presentations bring researchers at the leading edge of their technology into close contact with working engineers, scientists and students.

Francis A. Kulacki is a professor of Mechanical Engineering at the University of Minnesota. He has held faculty positions at the Ohio State University, the University of Delaware, and Colorado State University. His research lies in the area of thermal science and engineering, with specific interests in convective heat transfer, porous media, nuclear safety, nuclear waste storage and disposal, catalytic combustion, electrohydrodynamic augmentation of heat and mass transfer, and composite materials.

He has published 155 articles and technical reports; edited five books and conference volumes, and has presented 140 and invited lectures on engineering and education subjects.

He has served ASME in various capacities. He was Chair of the Columbus (Ohio) Section, Vice Chair of the Region III ME Department Heads Committee, and Chair of the Heat Transfer Division. Professor Kulacki currently serves as member of the Board on Engineering Education and is engaged in preparing a white paper for the Society on adult learning. He is also the Executive Director of the Technology-Based Engineering Education Consortium, which is located at the University of Minnesota.

# Tour of Tate Metal Works Inc.

## Combined SAE/SME/ASME Tour

**Date:** Saturday February 20, 1999  
**Time:** Meeting: 9:30 a.m. Tour: 10:00 a.m.  
**Place:** on Happy Road (off of Route 221) in Roebuck, SC  
**Cost:** free - but bring Safety Glasses if you have them !!!!

**Reservations:** REQUIRED No later than **2/15/99**  
 LIMITED number of reservations for tour

**Directions:** Take I-26 to exit 28 (Roebuck, Moore Exit). There is a Shell gas station at this exit. This is also the exit for the Walnut Grove Plantation, a historical site. Go North towards Spartanburg on Route 221 for approximately 2 to 3 miles. Turn right at the intersection of 221 and Happy Road. Tate is on the right side of the road 1/8 of a mile from the corner. We will meet in the Office building.

**Landmarks:** You know you are getting close to the plant when you pass the "Welcome to Roebuck Sign". If you go too far, you end up at the intersection of 215 and 221 (about a mile past the plant). Turn around and try again.

**Overview:** Tate Metal Works operates a brand new (less than one year old) state of the art facility where they design and manufacture API 620 & 650 Field Erected tanks as well as other robustly Engineered tanks. The plant sits on 35 acres and their 50,000 ft<sup>2</sup> building includes areas for cutting (including a water submerged plasma cutting CNC controlled system), rolling, assembly, sandblasting and painting. Outside the fabrication building is a 30,000 ft<sup>2</sup> covered area with overhead crane and raw materials storage area. that can also be used as a fabrication/assembly area.

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**Please note: Competitors of Tate Metal Works will NOT be able to tour this facility.**  
**If in doubt ask!**

Please complete the form below and either Fax or mail it to Ken Voronin at the address listed below. OR E-mail your reservation request with the required information. Confirmation will be prompt, either by return E-mail, Fax or phone.

<b>E-mail to:</b> kvoronin@us.rhodia.com	<b>FAX to:</b> Ken Voronin AT 864 573-6972 Roebuck, SC 29376 Phone # for messages 864 585-8393 ext. 46	<b>Mail to:</b> Ken Voronin 543 Moore's Crossing Roebuck, SC 29376
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**Meeting Feb. 20, 1999**

**Name:** \_\_\_\_\_ **ASME Membership #** \_\_\_\_\_

**Address:** \_\_\_\_\_ **Phone:** \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

**Address:** \_\_\_\_\_ **Fax:** \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

**E-mail address:** \_\_\_\_\_

**Please provide me with the name of the Company that you work for:** \_\_\_\_\_