

October 2006

Rock River Valley Section

ieee.flask.com

Event

Sense

The Institute of Electrical and Electronic Engineers, Inc.

RRVS Section and Computer/Control Systems Chapter Meeting

## Advancements in Electric Machines

**WHEN** Thursday, October 26, 2006

### WHERE

**Rock Valley College, Woodward Technology Center, Rooms 117/119.** I-90 to Riverside Blvd., exit and go west to Mulford Rd. Go south to 2nd light, turn east into RVC. Follow road to left to last building on right.

### AGENDA

6:00 PM Networking  
6:30 PM Dinner  
7:30 PM Presentation

### PROGRAM

State-of-the art of electric machines, associated components and contemporary trends of their development will be discussed. Recently, new topologies of high torque density motors, high speed motors, integrated motor drives and special motors have been developed. Progress in electric machines technology is stimulated by new materials, new areas of applications, impact of power electron-

ics, need for energy saving and new technological challenges. The development of electric machines in the next few years will mostly be stimulated by computer hardware, residential and public applications and transportation systems (land, sea and air).

### SPEAKER

**Dr. Jacek Gieras**, (M'84–SM'89–F'02)

graduated with distinction in 1971 (MEng) from the Technical University of Lodz, Poland. He received his PhD degree in Power Electrical Engineering (Electrical Machines) in 1975 and Dr hab. degree (corresponding to DSc in U.K.), also in Electrical Engineering, in 1980 from the University of Technology, Poznan, Poland.



From 1971 to 1998 he pursued his academic career at several Universities worldwide including Poland, Canada, Jordan and South Africa. He was also a Central Japan Railway Company Visiting Professor at the University of Tokyo, Japan, Guest Professor at Chungbuk National University, Choengju, South Korea, and Visiting Professor at the

University of Rome *La Sapienza*, Italy. In 1987 he was promoted to the rank of Full Professor. Since 1998 he has been involved in industry oriented research and innovations at United Technologies Corporation, most recently at Hamilton Sundstrand, Rockford Illinois.

Jacek authored and co-authored 9 books, over 230 scientific and technical papers and 16 patents.

### MEAL INFORMATION

Dinner menu: Vegetable lasagna, roast turkey, mashed potatoes, gravy, mixed vegetables, rolls, fresh fruit and mini desserts. The costs are: member and student non-members: \$7, student members: \$5, and non-members: \$11. Please make your **dinner reservations** by **calling Spring at 815-226-5265** or **sending her an email ([spring.tennant@hs.utc.com](mailto:spring.tennant@hs.utc.com)) by Monday, October 23, at 5pm**. Please include the following information: your name, phone number, email address, IEEE member number, and choice of dinner entrée. Unemployed members may call one of the officers for special arrangements.

### NOTE

The meeting is open to the general public. You need not be an IEEE member. Guests are welcome. Please call Ginger at 815-394-5696 for questions.

