



**ARC-FAULT CIRCUIT INTERRUPTERS:
"A New Level Of Electrical Protection for the Home"**

Dr. Joe Engel
Eaton – Cutler-Hammer



Each year in the United States, residential electrical fires result in more than 700 deaths, 3,000 injuries and \$700 million in property damage. Many of these fires begin with little warning, often starting with a loose connection on a wiring device (Do you remember the aluminum wiring problem of the early 70s?). This and other wiring hazards can escalate into a high energy sputtering electrical arc fault that a standard circuit breaker or fuse will not respond to. The arc fault can generate enough heat to eventually ignite nearby combustible material. Now, due to the development of advanced electronics, affordable circuit interrupter technology and the recently updated NEC® code, fires -- and deaths -- attributed to arc faults may eventually begin to decline.

The program at T&Q Center will start with a tour of the Center, followed by a discussion of arc fault technology including a demonstration of problem and its solution.

Place: Eaton Technology and Quality Center
160 Industry Drive, RIDC West.
Date: June 11, 2003
Dinner: 6:00 PM (No-charge)
Program: 7:00 PM

This meeting will be of particular interest to members who belong to the PES and IAS societies. Reservations are required for your attendance. If you have questions or you would like to RSVP, please contact Dr. Kal Sen at (724) 696-1611 by June 4th.

Directions from Downtown Pittsburgh: Take Parkway West outbound (toward Pittsburgh International Airport) to Montour Run Road exit. Follow the exit ramp and bear to the right and travel underneath the Parkway. At the traffic light, turn left onto Cliff Mine Road. At the first set of traffic lights, bear right and go up the hill into RIDC Park West. At the top of the hill, turn right onto Industry Drive. Continue on to 160 Industry Drive.

**IEEE Pittsburgh Section
Annual History and Awards Dinner**

Mabel to Ma Bell to Babel – The History of Telephony in the US
Dr. Richard A. Thompson, University of Pittsburgh

This discussion of telephony will cover many aspects of the telephony industry. In addition to the technical history, the legendary people, regulatory events and social impact of the telephony industry will be explored. The different aspects, and how they interact will also be discussed. We will see that telephony is has been a reflection of its times for more that 125 years.

Dr. Thompson has been with Pitt's Department of Information Science and Telecommunications since 1989, and has been Director of the Telecommunications Graduate Program in since 1991. Before that, he worked for a total of 20 years at Bell Laboratories.

Place: APICS Castle, Wilmerding
Date: June 25, 2003
Social: 6:00 PM
Dinner: 6:30 PM \$15 per IEEE Member, \$25 per couple
\$20 for non-member, \$35 per couple
Awards: 7:15 PM (No-charge)
Program: 7:30 PM (No-charge)

Menu
Shrimp Savannah or Chicken Cashew
Marmalade Carrots
Twice-Baked Potatoes
Salad, Roll, Butter
Strawberry Cheesecake
Coffee, Tea, Soft Drinks

For reservations or information, contact Tom McDermott at (412) 650-8491, or tmcdermott@ansoft.com.

Advanced payment for dinner is needed by June 23, 2003. Please make check payable to "Pittsburgh Section IEEE", and mail to Tom McDermott, 1601 Village Green Dr, Jefferson Hills, PA, 15025. Be sure to indicate your entree choice, and include a phone number or email address. Again, there is no charge for just attending the awards & program portion.

ADVANCE NOTICE

Mark your calendar for the Fall Picnic. The Annual Fall Picnic will be held on September 20, 2003 at South Park. Additional details will be available in the September Bulletin. Keep the date clear, and we will see you at the picnic.

2002-2003 Pittsburgh Section IEEE Program Calendar

Group/Society	September	October	November	December	January	February	March	April	May/June
ExecCom Harry Hagerty (412) 492-0943	21 Boyce Park	17 WVU	21 Pitt Greensburg	18 Point Park	16 Point Park	20 Point Park	26 Univ. of Pitt	17 Point Park	May 15 Point Park
Section Mtgs Harry Hagerty (412) 492-0943	21 Annual Fall Picnic					15 IndEEE 500 Robot Car Race	20 Job Search Skills Workshop		June 25 History Dinner
Upper Mon Matt Valenti (304) 293-0405		17 COTS Visualization				24 Practical Perspectives Digital Comm.			
Industry Applications Harry Hagerty (412) 492-0943		12-17 37 th Annual IAS Meeting						10 Power Transmission Technology	June 11 ARC-FAULT Circuit Interrupters
Magnetics Miklos Gyimesi (412) 268-2308	18 Adv. Magnetic Materials								
Computer Gerry Kumnik (412) 487-1430		17 COTS Visualization				15 IndEEE 500 Robot Car Race			
Communication Prashant Krishnamurthy (412) 624-5144			22 Precision Alignment using GPS					11 Low Density Parity Check Codes	
Power Eng. Kal Sen (724) 696-1611								10 Power Transmission Technology	June 11 ARC-FAULT Circuit Interrupters
Robotics Guy Nicoletti (724) 836-9922			21 Virtual Surgery						
Signal Processing Pat Loughlin (412) 624-9685									
EMBS Bob Brooks rbrooks@medrad.com									

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