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# **Aged Electrical Systems Research Application Symposium**

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October 18-19, 2006

Crowne Plaza Chicago-O'Hare International Airport

***Electrical Systems from the Past –  
Fire Safety in the Future***

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## Wednesday, October 18, 2006

**8:00 • Welcome**  
**Kathleen Almand**  
*Executive Director*  
*The Fire Protection Research Foundation*

**Keynote Address**  
**John Wafer**  
*Vice President and Chief Technology Officer*  
*Eaton Corp.*

**8:30 – 11:45 • Defining the Problem**

CPSC Staff Activities on Electrical Fires  
*Doug Lee, US Consumer Product Safety Commission*

Current Fire Statistics Related to Electrical Fires  
*Marty Ahrens, NFPA*

Some History of Residential Wiring Practices in the U.S.  
*Dave Dini, Underwriters Laboratories Inc.*

Code and Design Options as Solutions to Aged Wiring Problems  
*Timothy Arendt*

**11:45 – 12:45 • Lunch on own**

**12:45 – 3:00 • Electrical Fire Investigation**

Validating Electrical Fire Causes  
*John Machnicki, St. Paul Travelers*

Case Studies – Recent Electrical Fires  
*John Sleights, St. Paul Travelers*

Identifying Causes for Certain Types of Electrically Initiated Fires in Residential Circuits  
*John Shea, Eaton Corp.*

**3:00 – 3:30 • Break**

**3:30 – 5:00 • Aging of Materials and Systems**

An Analytical Study of Some Physical Properties of Wire and Cable Samples Collected From Older Homes  
*Tom Fabian, Underwriters Laboratories Inc.*

Fire Performance of Aging Cable Compounds  
*Perry Marteny, General Cable Corp.*

**6:00 – 8:00 • No-host Reception**

## Thursday, October 19, 2006

**8:00 – 9:30 • New Wiring Diagnostic Technologies**

Locating Hidden Hazards in Electrical Wiring  
*Paul Kuhn, Live Wire Test Labs*

Pulse Arrested Spark Discharge (PASD) Wiring Diagnostic  
*Kevin Howard, Sandia National Laboratories*

**9:30 – 11:00 • Current Research**

Residential Electrical Systems Aging Research Project  
*Dave Dini, Underwriters Laboratories Inc.*

Electrical Grounding Research Project  
*Travis Lindsey, Travis Lindsey Consulting Services*

**11:00 • Close**  
**Kathleen Almand**  
*The Fire Protection Research Foundation*

## SYMPOSIUM INFORMATION

### **Location:**

Crowne Plaza Chicago-O'Hare  
International Airport  
5440 N. River Road  
Rosemont, IL 60018  
847.671.6350

### **Registration:**

Registration by Sept. 22, 2006: \$295

After Sept. 22, and on site: \$395

Registration includes technical programs, refreshments, a reception, and symposium Proceedings.

Cancellations must be received by October 6, 2006 and will be subject to a \$50 processing fee. After Oct. 6, registrations are non-refundable.

### **Fax or mail a copy of the registration form on back panel to:**

Eric Peterson  
Conference Coordinator  
1 Batterymarch Park  
Quincy, MA 02169-7471  
Fax: 617.984.7010  
Phone: 617.984.7281  
epeterson@nfpa.org

### **Lodging:**

A block of rooms has been reserved at the *Crowne Plaza Chicago-O'Hare International Airport* at \$159 for conference attendees, and will be available till Sept. 17. After that date, the group rate cannot be guaranteed. Participants must arrange their own accommodation. Call 847.671.6350 to make your reservation.

**Friday, 3 February 2006**

## REGISTRATION FORM

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Company/Organization: \_\_\_\_\_

\_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Country: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Registration by 9/22/06 is **\$295**.

Registration after 9/22/06 or on-site is **\$395**.

Enclosed is a check/money order made payable to **The Fire Protection Research Foundation**,  
1 Batterymarch Park, Quincy, MA 02169-7471.

Charge my registration fee to:

Visa     Mastercard     American Express

Account Number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

Cardholder Signature: \_\_\_\_\_

If paying by credit card, you may fax your registration to Eric Peterson at 617.984.7010.

**Visit our web site for latest information and to register online:** [www.nfpa.org/foundation](http://www.nfpa.org/foundation)

## REGISTRATION FORM