



## POWER ENGINEERING SOCIETY

HOSTS A LUNCHEON PROGRAM

### CIRCUIT BREAKER TRANSIENT RECOVERY VOLTAGES

Presented by

Stephen R. Lambert of Power Technologies, Inc.

**Wednesday, January 11, 1995**

#### ABOUT OUR TOPIC

Following short circuit current interruption by a circuit breaker, a system generated voltage, known as a TRV or Transient Recovery Voltage, is impressed across the opening breaker contacts. This voltage must be withstood if successful interruption is to occur. The presentation describes the TRV, discusses circuit breaker TRV capability and discusses example applications.

#### ABOUT OUR SPEAKER

Stephen Lambert received both a BSEE and MSEE from the University of Illinois in 1969. He is a Senior Consultant with Power Technologies, Inc. Mr. Lambert is a Registered Professional Engineer and a Fellow of the IEEE. He is past Chairman of the IEEE Switchgear Committee, the High Voltage Circuit Breaker Sub-Committee and its TRV Working Group. He is presently Vice-Chairman of the IEEE PES Technical Council and serves on the IEEE Standards Board. He is a member of the IEEE Insulation Coordination Working Group, IEC WG28.1 (Insulation Coordination) and CIGRE.

#### PLACE

Chicago Bar Association  
321 S. Plymouth Court  
Chicago, IL  
(Near Jackson and Dearborn)

#### TIME

|              |          |
|--------------|----------|
| Social       | 11:30 AM |
| Lunch        | 12:00 PM |
| Presentation | 12:30 PM |

#### NOTES

Please make your reservation no later than noon, Monday, January 9. Lunch tickets can be purchased in the lobby (\$7.50).

## EMC SOCIETY

HOSTS AN EVENING PROGRAM

### REAL WORLD EMC PROBLEMS AND PRACTICAL SOLUTIONS

Presented by

Donald A. Weber of Electromagnetic Engr. Technology

**Wednesday, January 18, 1995**

#### ABOUT OUR TOPIC

This presentation will include development of a mode-tuned open stripline for automotive EMC measurements, ship loading crane shock hazards, construction equipment failures due to EMI, the effects of EMI on milk production by dairy cattle and much more.

#### PLACE

AT&T Bell Laboratories  
2000 N. Naperville Road  
Naperville, IL

#### TIME

|              |         |
|--------------|---------|
| Social       | 7:15 PM |
| Presentation | 7:30 PM |

## TIME SENSITIVE MATERIAL



## INDUSTRY APPLICATIONS SOCIETY and ILLINOIS ENGINEERING COUNCIL

HOSTS A JOINT DINNER PROGRAM

### SURGE SUPPRESSION IN LOW VOLTAGE SYSTEMS: WHEN, WHERE, AND WHY?

Presented by

Thomas M. Mueller of Tycor International Corporation

**Wednesday, January 25, 1995**

#### ABOUT OUR TOPIC

Why do transient voltage surges occur? What are the requirements for applying transient voltage surge suppression (TVSS) devices beyond the service entrance of industrial and commercial facilities? How can you prevent transient voltage surges from damaging sensitive equipment and disrupting electrical distribution systems? The speaker will discuss the requirements, specifications and locations of TVSS devices in typical low voltage distribution systems.

#### ABOUT OUR SPEAKER

Mr. Mueller is a recognized leader in power quality and protection. He is a graduate engineer and has an MBA from Queens and Dalhousie University. He leads Tycor's product development strategies that focus on creating economic benefits for end users. Mr. Mueller has over fifteen years of experience in the power quality business.

#### PLACE

Como Inn  
546 N. Milwaukee Ave.  
Chicago, IL

#### TIME

|              |         |
|--------------|---------|
| Social       | 5:30 PM |
| Dinner       | 6:00 PM |
| Presentation | 7:00 PM |

#### NOTES

The dinner is open to all interested electrical engineers. Dinner cost is \$20.00 per person. The dinner will include Soup, Salad, Choice of Pasta or Chicken, Coffee, and Dessert.

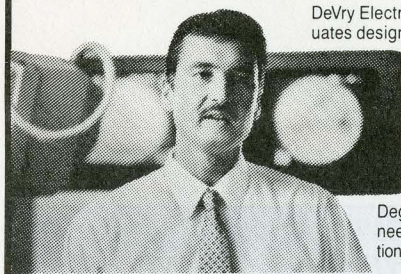
#### FOR MORE INFORMATION

Contact Patrick Murphy at (312) 664-7200 on extension 4440.

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**at**  
**(800) 898-IEEE**

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**DUPAGE CAMPUS**  
CONTACT: **John Petrik**  
Dean of Graduate Placement & Student Affairs  
1221 N. Swift Road • Addison, IL 60101  
(708) 953-1300

## WASHINGTON AWARDS DINNER

### DR. GEORGE W. HOUSNER TO RECEIVE THE WASHINGTON AWARD

Wednesday, February 22, 1995

#### ABOUT OUR EVENT

Dr. George W. Housner, C. F. Braun Professor of Engineering, Emeritus, California Institute of Technology, has been elected to receive the 1995 "Washington Award", one of engineering's prized national awards. Dr. Housner's academic career, along with his consulting, speaking, publications and honors attest to his qualifications as one of the top earthquake consultants both here and abroad. The award will be presented to Dr. Housner at this dinner banquet.

The IEEE is a sponsoring society of this annual event. The Chicago Section in showing support of this prestigious award is arranging tables for our members so we can be seated together.

| PLACE               | TIME           |
|---------------------|----------------|
| Union League Club   | Social 5:30 PM |
| 65 W. Jackson Blvd. | Dinner 7:00 PM |
| Chicago, IL         |                |

#### NOTES

Tickets are \$55.00 per person. For reservations, please call Dennis Lamont at (708) 398-4510.

## CHAIRS CORNER

Dear Member,

This year's PACE Conference focused, as it has for the past three or four years, on "Jobs, Jobs, Jobs." But the theme has changed from how bad things are to what we (IEEE) can do about it.

There was a new National Job Listing Service (JLS) established in August. The JLS provides out of work members with free information on job openings. Seven regional job listing files are available on Internet (via e-mail autoresponse files, ftp or gopher). Companies advertise their openings with IEEE, knowing that they are reaching a select audience of top engineering talent. Members then contact the company directly regarding these openings.

Members should also notify companies in our area that the JLS is available and can be a valuable tool in recruiting. The employment assistance information on Internet is accessed via "info.ieeeusa.employ@ieee.org". This file contains listings of resources and information on job search services, job listings, resume databases, job fairs, and video tapes.

There will be a Job Fair in early February. In conjunction with this fair there will be a Job Search Workshop on Tuesday, February 7, 1995.

Keep in mind that unemployed members of IEEE are entitled to a 50% reduction in annual dues during the term of their unemployment. Contact (800) 678-IEEE for details.

IEEE members can also receive a 10% discount at Kinko's Copy Centers nationwide on most services.

Ed Capouch — Chicago Section IEEE Chair

## DUPAGE ENGINEERS WEEK PROGRAM

IN CONJUNCTION WITH NATIONAL ENGINEERS WEEK

Hosted by the Illinois Institute of Technology

Saturday, February 25, 1995

#### ABOUT OUR EVENT

People of all ages can participate in hands-on demonstrations, contests, interactive displays, and exciting presentations. Their guides will be top engineers and scientists representing many of the Chicago area's leading academic and industrial institutions. Topics include: Alternative Fuels, Cryogenics, Waste Disposal Processes, Computer-Integrated Manufacturing, Natural Gas Vehicles, Cycles of Learning, and Battery Technology.

| PLACE            | TIME            |
|------------------|-----------------|
| IIT Rice Campus  | Starts 12:00 PM |
| 201 E. Loop Road | Ends 4:00 PM    |
| Wheaton, IL      |                 |

#### NOTES

This event is open to all and is free. For more information and to register, please call (708) 682-6008.

## FOX VALLEY SUBSECTION and COMMUNICATIONS SOCIETY

HOST A JOINT DINNER PROGRAM

### FAULT PREVENTION APPROACH IN CODING AND ROOT CAUSE ANALYSIS

Presented by

Dr. Weider Yu of AT&T Corporation

Wednesday, January 25, 1995

#### ABOUT OUR TOPIC

Due to the complexity of the 5ESS Switching System, the cost for finding and fixing (including retesting) of a software fault is very high. With the demand of ever increasing product quality by the customers and the high cost for testing and rework, it is crucial for the AT&T 5ESS Switching development organization to find ways to prevent the introduction of faults into the software in the first place. An analysis of Federal Communications Commission data shows that the quality of the 5ESS Switch is the leading advanced digital switch in quality in the world.

The 5ESS Switch Coding Fault Prevention Team, led by Dr. Yu, began an effort in this area in 1992. Their work resulted in significant achievements. The team was selected by the AT&T Switching Systems Business Unit to represent the organization to receive the 1994 AT&T Network Systems Group Quality Team Excellence Award.

#### ABOUT OUR SPEAKER

Dr. Yu received his Ph.D. in computer science from Northwestern University. He is currently a Distinguished Member of Technical Staff in the quality department of AT&T Switching Business Unit organization. He has led many projects in the areas of software productivity and quality, software estimation, cost modeling, knowledge engineering, metrics measurements, software requirement tractability, software fault removal effectiveness, root cause analysis, and defect prevention. He has published various papers in the AT&T Technical Journal and the IEEE Journal. He is a co-author of AT&T Best Current Practices - "Software Cost Estimation." Dr. Yu is a Senior Member of the IEEE and chair of the Chicago Chapter of the IEEE Communications Society.

| PLACE           | TIME                 |
|-----------------|----------------------|
| Jerry Sharko's  | Social 6:00 PM       |
| 2225 Ogden Ave. | Dinner 7:00 PM       |
| Lisle, IL       | Presentation 8:00 PM |

#### NOTES

Your dinner will cost \$15.00 and will feature Caesar Salad, Dinner Rolls, London Broil Entree, Coffee, and Dessert. During the Social from 6:30 to 7:00 PM, you can enjoy complimentary bar beverages. Dietary and vegetarian meals can be requested when you make your reservation.

#### FOR MORE INFORMATION

Contact David Schumacher at (708) 224-6471.

**Chicago Section Executive Committee Meeting**  
**Tuesday, January 10th • 7:15 PM**  
**DeVry • 1221 N. Swift Rd • Addison, IL**

**Make Your Reservation Today!**  
**Call the Chicago Section Business Office**  
**at (800) 898-IEEE**

## IEEE COMPUTER SOCIETY and UNIFORM CHICAGO

HOST A SEMINAR

### FAST TRACK TO OBJECTS

A PRACTICAL INTRODUCTION TO

OBJECT-ORIENTED CONCEPTS AND TECHNOLOGY

Presented by Dr. Frank Sternberg of Key Concepts, Inc.

Saturday, January 28, 1995

#### ABOUT OUR TOPIC

This special event will help you gain a better understanding of Object-Oriented Concepts which are becoming progressively more essential in state of the art system and application software environments.

A primary obstacle for planning and working with objects is the necessity to adopt a new way of thinking about your application domain. This seminar will lead you quickly and deeply into object-oriented thinking, which represents a shift from the primacy of verbs to that of nouns. You will become comfortable with the basic object concepts and object-oriented modeling and analysis: Your first step will be to identify your domain objects and their respective responsibilities. Then you will see how object concepts map into object languages (e.g. C++ and Smalltalk), as well as recognize how the benefits of objects result from salient features of object theory.

This seminar will be focused on the following topics:

- A User's View of Objects
- The Developer's View of Objects
- Objects in Graphical User Interfaces (GUIs)
- Objects in the Client/Server World, and
- The Object-Oriented Project.

The morning session will take you through a series of activities in which you will be playing the role of objects. Through these activities, you will internalize all of the fundamental object concepts. The afternoon session will build on your newly-acquired intuition by showing how objects have influenced specific areas of interest, such as modeling, graphical user interfaces, and software architecture. The day will conclude by looking at special features and key requirements of the object software development cycle.

#### ABOUT OUR SPEAKER

Dr. Frank Sternberg is a recognized expert in the Object-Oriented field and has given many presentations on this subject to industry and professional groups. Dr. Sternberg is President of Key Concepts, Inc.

| PLACE                      | TIME                                               |
|----------------------------|----------------------------------------------------|
| College of DuPage          | Starts 8:30 AM                                     |
| Building M, Room 165 (A&G) | Ends 5:00 PM                                       |
| Glen Ellyn, IL             | Lunch provided if reservation received by Jan. 21. |

| REGISTRATION            | Register by Jan. 13 | After Jan. 13 |
|-------------------------|---------------------|---------------|
| IEEE Members            | \$50                | \$75          |
| IEEE Students (with id) | \$15                | \$25          |
| Non-Members             | \$75                | \$90          |

Please send your check (made out to IEEE Computer Society) by Jan. 21 and include your name, address, and phone number to:

J. Feitler, P.O. Box 5072, River Forest, IL 60305

#### DIRECTIONS

Call IEEE Business Office  
at (800) 898-IEEE.

#### FOR MORE INFORMATION

Contact Joe Feitler  
at (708) 383-8773.

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|                                                                                                                                                |                                                                                                                            |                                                                                   |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EDITOR</b><br>Martin Lake<br>AT&T, Dept. NA63B1200<br>2600 Warrenville Rd.<br>Lisle, IL 60532<br>708/224-6626, -3405 FAX<br>m.lake@ieee.org | <b>ADVERTISING</b><br>Len Cohen<br>8117 Parkside Ave.<br>Morton Grove, IL 60053<br>708/272-8800 x42692<br>708/559-1849 FAX | <b>ASSISTANT EDITOR</b><br>James Carroll<br>708/979-8820<br>j.carroll@ieee.org    | <b>BUSINESS OFFICE</b><br>IEEE Chicago Section<br>2460 Wisconsin Ave.<br>Downers Grove, IL 60515<br>800/898-4333<br>708/964-4333<br>708/963-2122 FAX | <b>SEND CHANGE OF ADDRESS TO:</b><br>Roseann Schultz, Member Services<br>IEEE Service Center, 445 Hoes Lane<br>Piscataway, NJ 08854-4150<br>Include your SCANFAX mailing label if possible or<br>phone direct to 800/678-4333. We cannot forward this<br>information for you, so please do not send it to the<br>local office. |
|                                                                                                                                                |                                                                                                                            | <b>ASSOCIATE EDITOR</b><br>Joe Feitler 708/383-8773<br>rojx131@glen-ellyn.iit.edu |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                |

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Note: There are some national deviations in a few countries, such as ergonomics for monitors & keyboards in Germany which must be met before marketing in these specific countries.

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**EC-EMC**

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October 3, 1994

ABC  
8100 Main Street  
Anytown, IL 60606

**NOT TRANSFERABLE**

*This certificate of work done is hereby sold to the named GRANTEE and is VALID ONLY for the equipment identified herein for use under the rules and regulations listed below.*

|                               |                                                         |
|-------------------------------|---------------------------------------------------------|
| Name of Manufacturer:         | ABC Corporation                                         |
| Model Name:                   | B16 System                                              |
| Directive/Product Standards:  | EC Directive 89/336/EEC<br>using EN55022 and EN550082-1 |
| Equipment Type/Environmental: | ITE/Residential, commercial & light industrial          |

Notes(s):

- See Report Number(s) 1564 & 1648 for details and/or conditions of this Certificate.
- Product meets the limit B and methods of EN55022. Product meets the levels and methods of IEC 801.
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  - 3, 10 V/m, 0.1-1000 MHz 80%, @1 kHz Criteria A;
  - 4, Power leads 4 kV, Signal leads 2 kV, Criteria B

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# CERTIFICATE OF APPOINTMENT

The EMC-test laboratory listed below, has been authorized  
to carry out EMC-tests by order and under supervision of TÜV Rheinland:

**DLS Electronic Systems Inc.**  
10350 Dearlove Road  
Glenview, IL 60025

Applied EMC-Standards:

EN 50081-1:1992, EN 50082-1:1992, EN 50081-2:1992  
EN 55011:1991, EN 55014:1991, EN 55021:1991, EN 60553-1:1987, EN 60555-3:1987  
IEC 801-2:1984, EN 40801-2:1993, IEC 801-3:1984, prENV 50140:1993  
IEC 801-4:1988, prENV 50142:1994, DIS 1008-4-4:1994,  
EN 41000-4-8:1993, EN 41000-4-11

This certificate is valid until October, 31st, 1995

A complete re-audit according to EN 45001 is required for the subsequent  
period of 1 year.

This authorisation is based on "Contract between ZPGG and DLS"  
dated September, 7th, 1994

**TÜV Rheinland**  
Sicherheit und Umweltschutz GmbH  
Certification and Testing Body for Product Safety  
Am Grauen Stein, D-51105 KÖLN  
A Competent Body

Cologne, October, 24th, 1994

signature: \_\_\_\_\_



Dr. Heide Köster



If you would like to learn more about these certificates, call D.L.S. Electronic Systems, Inc. at 708-699-9060