



Scanfax

SCANFAX, IEEE MESSAGE CENTER
2460 WISCONSIN AVENUE
DOWNERS GROVE, IL 60515

U.S. POSTAGE PAID
NON-PROFIT ORG.
Permit No. 479
Glen Ellyn, Illinois

Official Publication of Chicago Section • Institute of Electrical & Electronics Engineers • DECEMBER 1992



TIME SENSITIVE MATERIAL

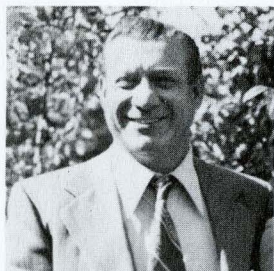
CALENDAR OF EVENTS

For reservations please call IEEE Office at (708) 963-3828 before the stated deadline

The meeting details are stated in their relevant announcements inside

Copy Deadline for January SCANFAX is November 25, 1992

December 7 & 8 Monday & Tuesday	Chicago Section and The Lendman Group	IEEE Technical Career Fair	Radisson Suite Hotel 5500 North River Road Rosemont, IL.	Hours: 3:00-8:00PM daily Call for details (804)473-2450
December 8 Tuesday	Chicago Section	Executive Committee	Motorola Center 1295 East Algonquin Rd. Schaumburg, IL.	Meeting: 7:15 PM
December 8 Tuesday	Fox Valley Subsection/ Power Engineering Society	ENVIRONMENTAL MAGIC: Electricity from Uranium	Jerry Sharko's 2225 Ogden Ave. Lisle, IL.	Social: 6:00PM Dinner: 7:00PM Meeting: 8:00PM
December 9 Wednesday	Power Engineering Society	Efficient Lighting- A Solution to the Energy Challenge of the 1990's	Chicago Bar Association 321 S. Plymouth Ct. Chicago, IL.	Social: 11:30AM Lunch: 12:00noon Meeting: 12:30PM



HENRY P. KORMAN (MAY 11, 1924 — OCTOBER 24, 1992)

The Chicago Section of the IEEE mourns the passing of its Past Section Chairman Henry ("Hank") P. Korman on October 24th, 1992. His faithful and devoted services to our Section for over 25 years include his outstanding contributions and leadership as the Chairman of our Special Events/Recognition Dinner Committee which have been recognized on numerous occasions, especially by receiving the Section Chairman's Award in May 1992 at the Recognition Dinner. He was an indefatigable leader in planning, organizing and all of these dinner events for so many years that we will miss his valued counsel and guidance all too frequently in the future.

On behalf of our Executive Committee and all of our members we extend our deepest sympathy to Stella, his faithful spouse and helpmate of over 40 years, and to his entire family. We are also planning to create a special living memorial to Hank, but these plans have not been finalized at this time. In any case, we would like to ask his many sorrowing IEEE friends to consider a contribution to the American Cancer Society as a personal tribute to his memory.

We also hope that many of our Chicago Section members will continue to recall Hank as one of our most valued IEEE volunteers in recent memory.

Joe Feitler, Associate Editor
Member of the 1992 Recognition Dinner Committee

SCANFAX, (Publication) number (ISSN 0018-1297), December, 1992 Volume 45, Number 4, SCANFAX is published monthly, except July and August by the Chicago Section Institute of Electrical and Electronics Engineers for the information of its members. Business Office is at IEEE Message Center—2460 Wisconsin Ave., Downers Grove, IL, 60515 (708) 963-3828 and Fax (708) 963-2122. Subscription rate for IEEE members collected in dues. \$1.50. Third class postage paid at Glen Ellyn, Illinois.

Unless otherwise specified, Chicago Section IEEE neither endorses nor sanctions any positions or actions espoused in SCANFAX.

James Carroll, Editor
Room 2H 205
AT&T Bell Labs
2000 N. Naperville Rd.
Naperville, IL 60566
(708) 979-8820
FAX (708) 979-8823

Joe Feitler, Assistant Editor
(708) 505-9100 Ext. 277

Steven Hofmann, Copy Editor
(708) 979-4247

Ed Barrett, Advertising Director
171 Warwick Drive
Glendale Heights, IL 60139
(708) 773-4864

Bob Hofmann, Assoc. Editor
(708) 979-3627

Change of Address

Send change of address to Roseann Schulz, Member Services, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854-4150. Include your SCANFAX mailing label if possible or phone direct to: 1-800-678-4333. We cannot forward this information for you, so please do not send it to the local office.

Save money and time on products that must meet the requirements of:

U.L., FM, CSA, ULC

Consulting: Testing Laboratory Liaison, Design Aid, Materials, Components & Vendors. Also: MET, TUV, ETL, Etc.

Technical Consultants

G. L. Schmitz
Phone (708) 446-8775 Fax (708) 446-8785

SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
JAN 93	NOV 25	DEC 15
FEB	DEC 21	JAN 15
MAR	JAN 28	FEB 15
APR	FEB 25	MAR 15
MAY	MAR 25	APR 15
JUNE	APR 28	MAY 15

THESE ARE FIRM DEADLINES FOR ADS AND COPY!!!

Once again, we urgently need volunteers for several challenging, exciting, educational Chicago area programs, including the National Engineers Week promotions.

The Engineers for Education local committee has been busy raising interest in the schools. We need engineers to work with Grades 5 and up presenting a variety of worth while programs. We have a list of volunteer opportunities in the area. Just call or write to receive yours.

We need female engineers to work as advisors/presenters on a variety of Girl Scout programs. The newest is Science by Mail an exciting program designed by the Boston Museum - certain to be a hit. We'd like to get started in January so if your interested, please call!!

The logo is for National Engineers Week celebrating the great and many contributions of engineers, both as a group and as individuals. The week will be filled with activities and there will be something for everyone. So get involved, be an active component in the future of engineering!!

To volunteer or for more information, contact:

Mary Hart
Commonwealth Edison
P.O. Box 767 836E
Chicago, IL 60690
312 294-7784



ENGINEERS
Turning Ideas
Into Reality®

NATIONAL ENGINEERS WEEK®
FEBRUARY 14-20, 1993

POWER ENGINEERING SOCIETY



SPEAKER: Howard L. Wolfman, P.E.—Manager Industry Standards and and Utilities, Motorola Lighting Inc.

TOPIC: Efficient Lighting - A Solution to the Energy Challenge of the 1990's

ABSTRACT: Today's energy efficient lighting products will play a major role in reducing or delaying the approaching electrical energy shortage in the US. Since commercial and industrial lighting account for more than 20% of the US electrical demand, we can expect to see significant attention paid to demand side management and energy efficient lighting products. The presentation will cover energy savings in fluorescent lighting systems and will address improved lighting quality, power quality, and reliability.

BACKGROUND: Mr. Wolfman received his BSEE from the University of Illinois and an MBA from Northwestern University. He was one of the founding employees of Motorola Lighting Inc., and has had extensive engineering and management experience at such firms AT&T Teletype, Northern Telecom, and AB Dick.

Mr. Wolfman is a Senior Member of the IEEE; a member of the IEEE Industrial Applications Society Professional Applications of Light Committee (PAL); Vice-Chairman of the National Electrical Manufacturer's Association (NEMA) Ballast Section; a member of the American National Standards Institute (ANSI) committees for Fluorescent Lamps and Ballasts, C78.1 and C82.1; the Illuminating Engineering Society of North America (IESNA); and the Association of Energy Engineers (AEE).

His IEEE activities include having served as Chairman of the Chicago Section, member of the Electromagnetic Compatibility Society (EMC) Board of Directors, Chairman of the 1972 EMC Symposium, and a member of the Executive Committee of the Communications Society International Symposiums of 1985 and 1992. He is currently serving as Director of Region 4 of the IEEE, as well as a member of the United States Activities Board, and the Regional Activity Board. Mr. Wolfman has made numerous presentations and has authored six papers. He is a recipient of the IEEE Centennial Medal.

PLACE: Chicago Bar Association, 321 S. Plymouth Ct.
(near Jackson and Dearborn)
Purchase lunch tickets in lobby (\$7.50)

DATE/TIME: December 9, 1992 / 11:30 Social, 12:00 Lunch, 12:30 Presentation

RESERVATIONS MUST BE MADE BY MONDAY 12/07/92, 12:00 PM. RESERVATIONS MAY BE MADE BY CALLING THE IEEE CHICAGO MESSAGE CENTER AT (708) 963-3828. PLEASE LEAVE NAME(S) AND COMPANY NAME(S) FOR THOSE WISHING TO ATTEND.

ZIP Code Distribution of Our Membership

Our section ZIP code distribution based upon IEEE publication mailing addresses on record during the spring of 1992 are tabulated below. ZIP code statistics were assembled to determine if delivery of SCANFAX could be expedited by taking advantage of any significant patterns displayed in the data. Also, as a planning aid, this knowledge may prove useful in the placement of professional meetings at locations that would foster greater attendance and participation in section sponsored activities.

Contact Jack Sherman at 708.576.8222 for further statistical details or to submit your suggestions on how these ZIP code statistics could better serve our section's interests.

FROM - TO	#
60000 - 60010	435
60011 - 60020	272
60021 - 60030	117
60031 - 60040	84
60041 - 60050	186
60051 - 60060	187
60061 - 60070	418
60071 - 60080	162
60081 - 60090	190
60091 - 60100	108
60101 - 60120	240
60121 - 60140	314
60141 - 60160	394
60161 - 60190	329
60191 - 60200	286
60201 - 60220	265
60221 - 60300	0
60301 - 60400	99
60401 - 60500	434
60501 - 60520	407
60521 - 60540	545
60541 - 60560	187
60561 - 60580	351
60581 - 60600	1
60601 - 60610	268
60611 - 60620	436
60621 - 60630	201
60631 - 60640	240
60641 - 60650	239
60651 - 60660	224
60661 - 60670	86
60671 - 60700	0

Note that the ZIP code intervals mentioned in the table are not of equal size.



YOU COULD HAVE THE CE MARK ON YOUR PRODUCT TODAY HAD YOU COME TO D.L.S. YESTERDAY*

Yes, you could be placing the CE mark on your product today by meeting the EMC, Safety and marketing requirements of the European Community. D.L.S. will guide you and test your product for the EMC requirements of the CE mark as we are doing for many of our customers.

FOR EMISSIONS YOU ARE REQUIRED TO DO ONE OF THE FOLLOWING:

EN55022(CISPR 22) for ITE, EDP
and similar equipment
EN55014(CISPR14) for Household
appliances and similar equipment
EN55011(CISPR11) for Industrial,
Scientific and Medical equipment

FOR IMMUNITY YOU ARE REQUIRED TO DO ALL OF THE FOLLOWING:

EN55101-2(IEC801-2) Electro-
Static Discharge
EN55101-3(IEC801-3) Radiated
Electric Field
EN55101-4(IEC801-4) Fast
Electrical Transient

To order a **FREE COPY** of "EC THOUGHTS AND COMMENTS" explaining the ins and outs of the European Community's EMC Requirements, FAX the front page of this SCANFAX showing your mail label (make any corrections necessary including phone number) to 708-699-9093. To schedule your test immediately or to learn more about the CE mark call us at D.L.S. ELECTRONIC SYSTEMS, INC. (708-699-9060)

D.L.S. also does: FCC, VCCI, vfg, VDE, BZT, (ZZF), MDS, DOC, MIL-461, site surveys, seminars, and staff consulting.

*possible limitations

"Celebrate National Engineers Week, February 14-20, 1993."

One week each year is set aside to honor American engineers and encourage young men and women to join us in the exciting tasks of finding solutions to today's technical challenges and helping create the world of tomorrow. This year, on February 14-20, thousands of professional engineers will visit the nation's classrooms as part of the successful and ongoing Discover "E" program.

Please join us in this important effort by volunteering to give a presentation on engineering to a science or math class at a local school. Contact your engineering society chapter or headquarters to find out how you can help encourage the engineers of tomorrow.

Martha Sloan
1993 President,
The Institute of Electrical and
Electronics Engineers, Inc.
Chair, National Engineers Week

Kenneth T. Derr
Chairman and CEO,
Chevron Corporation
Honorary Chairman,
National Engineers Week



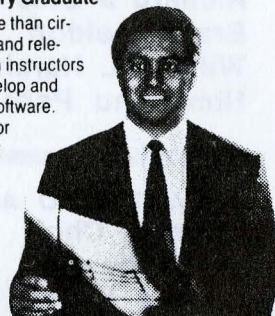
ENGINEERS
Turning Ideas
Into Reality.

DEVRY ELECTRONICS GRADUATES CREATE SOLUTIONS.

"Training others has helped me appreciate the quality of instructors at DeVry. They taught me what it takes to succeed."

Len Martinez, 3M Corporation, 1977 DeVry Graduate

DeVry Electronics graduates understand more than circuits and wires. Their education is hands-on and relevant to the real world because they learn from instructors with real world experience. They design, develop and troubleshoot microprocessor hardware and software. They provide technical support and training for sophisticated electronics equipment. They understand how to create solutions for today's businesses. DeVry has Bachelor's (BSEET) and Associate (ET) degree graduates for your special needs, right now. For more information, contact our local placement office.



DEVRY

We're serious
about success!

U.S. DeVry Institutes are accredited by the North Central Association of Colleges and Schools.

CONTACT: **Myra Starks**
Associate Director • Career Services Center
3300 N. Campbell Avenue • Chicago, IL 60618

CONTACT: **John Petrik**
Dean of Graduate Placement
1221 N. Swift Road • Addison, IL 60101

(312) **929-7837**

(708) **953-1300**

© 1992 DEVRY INC.

COME AND MEET YOUR ENVIRONMENT CALL FOR PAPERS, PARTICIPANTS, INNOVATORS

WHEN: February 12 - 14 Concurrent with Region 4 meeting;
February 15 - 18 Prelude to the Nat'l Engineer's Weekend at IIT Rice

WHERE: Motorola Schaumburg campus

WHO: Presenters- invited people, selected papers, attendee forums.

WHAT: OUR ENVIRONMENTS (just to mention a few)
Nurturing awareness of four of our critical environmental variables:

The innerspace

- Engineering among students and among academics;
- Engineering among the peerage of women;
- Engineering among foreign nationals and their cultures;
- Engineering among teams, power brokers and naysayers;
- Engineering with 2 x 4's and plywood compared to workstations;
- Engineering among lifestyle and spiritual challenges;

The outerspace

- Nuclear power and nuclear power stations;
- Power conservation technologies;
- Toxics, toxins, prosthetics, fresh air, aerosols;
- Satellite communications, satellite spying, and star wars.

The materials

- Developing novel materials with no money in the bank;
- Using old analytical equipment to solve new problems;
- Does reliability assurance assure anything but statistical inference;
- When does the cost of repair exceed the cost of scrap;
- Can we build reliable products with unreliable designs;
- Why aluminum could not replace copper power wiring;
- Fragility and robustness of circuits, systems and their components;
- How software is a material, like woven fabric is a material;

The logics and the philosophies

- How shall we teach engineering; How shall we engineer teaching?
- Shall we pattern our software after somebody's idea of language?
- Shall we analyse software failures the same as we do materials?
- What can businesses do to create meaningful jobs;
- What can government do to stay out of business.
- Can creativity be taught or even learned?

These ideas are the property of the the local arrangements committees of the Chicago IEEE Northwest Subsection and several participating technical societies.

The contact phone is 708 576 8222, or e-mail to j.sherman@ieee.org

Join Us!

THE FOX VALLEY SUBSECTION
in conjunction with
The Chicago Section and the Power Engineering Society
celebrates

The 50th Anniversary of the First Nuclear Reaction

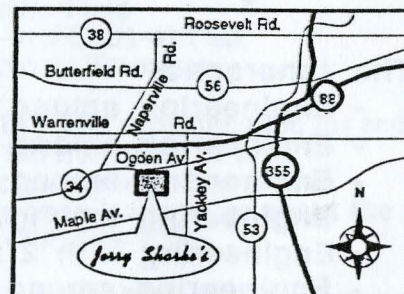
ENVIRONMENTAL MAGIC: Electricity From Uranium

presented by
Robert Boyar of Argonne National Laboratory

When? Tuesday, December 8, 1992

What time? Social 6:00 PM (cash bar)
Dinner 7:00 PM (\$13.00) *
Meeting 8:00 PM

Where? Jerry Sharko's
2225 Ogden Ave.
Lisle, IL.



Reservations: Call (708) 963-3828
by Friday, December 4, 1992

Attire: Casual

* \$11.00 with student ID

Our country has safely generated an increasing share of electricity from uranium, over 21% in the 1991-1992 time period. Mr. Robert Boyar will discuss the environmental aspects of nuclear power. *The discussions will emphasize:*

- * *Uranium vs. Coal as a heat source for Thermal-Electric Generating Plants.*
- * *Nuclear Waste and the NIMBY (Not In My Back Yard) Syndrome.*
- * *Radiation Hormesis and the Radiation-Health Controversy.*
- * *Nuclear Power Plant Safety - Existing and Proposed.*
- * *What happened at Chernobyl?*

Robert Boyar has a broad range of experience in the development and application of nuclear power. He performed R&D for the first breeder reactor. He also performed reactor kinetic experiments in the physics group of the ANL Naval Reactor Division. Mr. Boyar holds an M.S.M.E from Northwestern University and is a former member of the Board of Directors of the Chicago Section of the American Nuclear Society.