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Official Publication of the Chicago Section • Institute of Electrical & Electronics Engineers • Jan. 1988

TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations call the IEEE office 255-3003
(unless otherwise indicated)

Copy Deadline for February Scanfax is December 28, 1987

JAN. 12	Monthly Meeting ALL WELCOME	IEEE Executive Cte.	Allen-Bradley Company 910 Pasquinelli Dr. Westmont, IL	Meeting: 7:30 PM
JAN. 13	Waste To Energy Conversion	Power Engineering Society	Carson Pirie Scott Wabash & Monroe Sts. Highland Room 8th Fl. Downtown Chicago	Social: 11:30 AM Lunch: 12:00 Noon Meeting: 1:00 PM
JAN. 13	SCADA Satellite Data Links	Industry Appls. Soc./ Industrial Electronics Society Jointly With ISA (Instrument Society of America)	Mr. Peter's Restaurant 1018 Mount Prospect Ave. Mount Prospect, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
JAN. 27	Solar Energy	Fox Valley Subsection	Wilton Manor 2200 Main Street Wheaton, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
FEB. 10	Microprocessor Based Motor Protection	Power Engineering Society	Carson Pirie Scott Wabash & Monroe Sts. Highland Room 8th Fl.	Social: 11:30 AM Lunch: 12:00 Noon Meeting: 1:00 PM
FEB. 10	Self Improvement for Professional Development	Indus. Appls./Industl. Electronics Society	Allgauer's Hotel 2855 Milwaukee Ave. Northbrook, IL Downtown Chicago	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
FEB. 15		Joint Chapter AP/Mtt-S	Louis Restaurant 351 E. Lake St. Addison, IL	Social: 5:50 PM Dinner: 6:30 PM Meeting: 7:30 PM

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POWER ENGINEERING SOCIETY

MEETING NOTICE

LUNCHEON MEETING

WEDNESDAY, JANUARY 13, 1988

SPEAKER: James A. Smentek
Chief Electrical Engineer
ENGINEERING DESIGN SERVICES, INC.

TOPIC: Waste to Energy Conversion

ABSTRACT: An overview will be given of the Solid Waste to Electrical Energy and Landfill Gas to Electrical Energy processes. Typical process flow diagrams will be reviewed along with major equipment used in such plants. Interconnect requirements for sale of power to the Utility will be discussed, with emphasis on protective relaying, metering, and typical interconnect equipment. In plant power distribution schemes will be summarized, including bus configuration, generation voltage, and system grounding.

SPEAKER: Mr. Smentek graduated from Marquette University, Milwaukee, Wisconsin, in 1972 with a BSEE degree. He is a registered professional engineer in his home state of Illinois as well as several other states. He has spent over 15 years in the management and the engineering and design of projects dealing with the "heavy" industrial processes (coal, cement, steel) and small power production.

LOCATION: Carson Pirie, Scott & Co.
Highland Room - Corporate Level
Monroe & Wabash
Downtown Chicago

Cocktails: 11:30 A.M.
Lunch: 12:00 Noon
Meeting: 12:45 P.M.

Lunch is \$11.00 per person.
Advance reservations should be made by calling Judy Larsen or Carolyn Glandt at 255-3003 before January 11, 1988.

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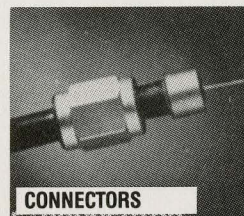
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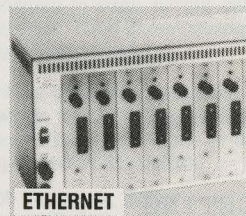
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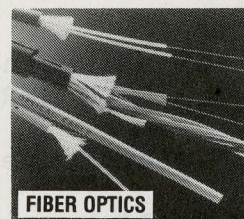
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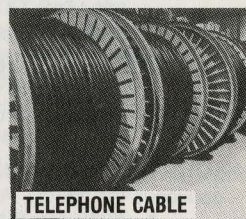
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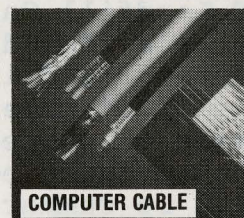
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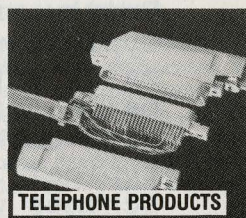
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FOX VALLEY SUBSECTION

Solar Energy: Progress in Solar Photovoltaic Research Wednesday, January 27, 1988

Conventional wisdom-- especially that espoused by those of us who have not been professionally involved in solar energy development-- has heretofore dismissed solar energy as a "bye and bye, pie in the sky" sort of energy alternative, the refuge of hobbyists and, just perhaps, people with a score to settle with the power company. As sometimes happens, we have been missing a quiet revolution, one which stands a strong chance of changing our industries and our lives. The largely unheralded, but nonetheless impressive, progress in direct conversion of sunlight to electrical energy is the topic of a very important Fox Valley Subsection meeting.

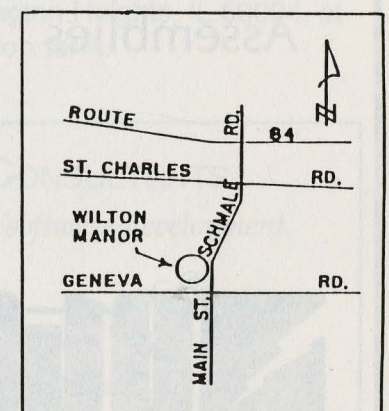
Energy Conversion Devices, Inc. (ECD), of Troy, Michigan, has been in the forefront of solar cell development since the early discoveries indicated a potential role for noncrystalline, i. e., amorphous, semiconductor materials. At one time or another a pariah within their own specialty, in part because of their preference for multijunction cells, they have now earned the respect of many who doubted. Fox Valley Subsection has been fortunate in securing a member of the ECD staff (to be named in a mailed announcement in the near future) to discuss progress in thin-film amorphous silicon solar cells. The efficiencies, lifetimes, and operational characteristics, as well as the economics-- currently and in the foreseeable future-- will be discussed for these devices, along with some of the implications of the new technology. Since Chicago is not in the Sun Belt, few organizations in this area can present authoritative information on this field; we urge you to take prompt action to "see the light" on this important topic!

Location: Wilton Manor
2200 Main Street
Wheaton, IL

Time: Cash Bar 6:00 P.M.
Dinner 7:00 P.M.
Dinner Cost \$10.00
Meeting 8:00 P.M.

Reservations: Call 312-255-3003 by January 25, 1988

Note: Please reserve even if you are not coming for dinner so that there will be ample seating!



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PLACEMENT SERVICE

The Chicago Section is now offering a Placement Service for its members free of charge. The program is intended for those who are Member Grade and above and is a positive step to help our members who are unemployed. If interested in any of the applicants listed below, call the IEEE office (255-3003) for their name and phone number. If marked "confidential," the applicant will be contacted by the IEEE office so that he/she may contact the prospective employer.

B108 — BSEE - entry level position in communication field, Digital/Analog circuit

B109 — BSEE - IIT entry level comm systems engr 1+ yrs. coop and Tech exp.

B110 — BSCS NI U, entry level programmer: Fortran, IBM assembler, VSAM, IMS MVs, sys

B111 — BSEE entry level position in electrical and electronics engineering

B112 — SR tech mgr & consultant seeks Chicago R & D or Dept. Mgr. posn. MSEE, M-EM CONFIDENTIAL

B113 — BSEE elect. Design/Project engr. process/ Automation control 10 yrs. exp.

B114 — BSEE UIUC seeking entry level position in communication systems

B115 — BSEE entry level position in electrical and electronic engineering

B116 — MSET plant eng/maintenance mgr 30 yr exp or consultant status

B117 — MBA/BSEE seeking a position in management information systems

B118 — BSCS/ Engr. UIC, GPA 4.06, co-op - Pascal, Fortran, Basic, C, Lisp, Assembler

B119 — BSEE UIUC seeking entry level pos. in comm. field 1 yr. coop

B120 — Highly motivated individual seeks a challenging position in soft. engr/BSEE

B121 — BSEET Entry level field service, for communications and Software company

B122 — BSEE PE seeks design or plant engineering in Chicago area.

B123 — BSEET seeking entry level position in communications field 1+ yrs. MILEXP

B124 — BSME UIUC former US Army officer, seeking international sales posn.

B125 — MS Electronics seeking position in computer hardware design.

B126 — MSCS seeking position teaching or developing computer software.

B127 — BSME UIUC former US Army officer, seeking a position in Int'l sales.

B128 — BSEE seeking entry level position. Interested in communications.

B129 — BSEE seeking entry level position in power systems and/or control system.

B130 — BSEE Plant or mfg. Engr Mgr - Exp. in instrum/Xducers/elec - Mech contr.

If you are an IEEE member and unemployed, contact the IEEE Placement Service • 3413 N. Kennicott Avenue • Arlington Heights, IL 60004, at 255-3003 for an application form.

SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
Feb.	Dec. 28	Jan. 15
Mar.	Jan. 25	Feb. 15
Apr.	Feb. 29	Mar. 15
May	March 28	April 15
June	April 25	May 15

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CALL FOR PAPERS

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Aug. 30 - Sept. 1, 1988
Dallas, Texas

SCOPE — All aspects of electronic and electrical technology concerning processes, devices, components and systems:

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GOAL — To foster communication between designers, manufacturers, and users of electronic and electrical technology.

SUBMISSION OF PAPERS

Papers describing original work, tutorials, or reviews are solicited for a 25 minute presentation and printing in the Conference Digest for the following suggested topics:

- | | | |
|--|---|--|
| • Implications of High Temperature Superconductivity on IC Designs | • Acoustical Neurocomputing | • Gigabit Signal Processing |
| • Cryogenic Systems For Superconductivity Applications | • Optical Neural Networks | • Radar Cross Section Measurement and Analysis |
| • Implications of High Temperature Superconductivity on Power | • Image Processing | • Interferometers |
| • Supercollider | • Signal Processing Algorithms | • Microwave Computer Aided Design |
| • Silicon Sensors | • Artificial Intelligence | • Nonlinear Device Modeling |
| • Computer Power Protection | • Parallel Processing | • Vision Systems In Inspection |
| • Industrial Plant Lighting | • Object Oriented Systems | • CAD/CAM |
| • Lightwave Communications | • Services, Issues, and Technology in the Realization of Integrated Services Digital Network (ISDN) | • Robotics |
| • Local Area/Local Loop Networks | • Common Channel Signaling (SS7) | • High Power Lasers |
| • Sensors | • Satellite Global Positioning | • Optical SDI Applications |
| | | • Medical Monitoring Technology |

Reliability or Quality papers concerning the suggested topics are encouraged.

Technical session proposals will also be considered.

DEADLINE FOR RECEIPT OF PAPER SUMMARY IS JANUARY 25, 1988 — APPROPRIATE COMPANY AND GOVERNMENT CLEARANCES MUST BE OBTAINED PRIOR TO THIS DATE FOR BOTH SUMMARY AND PAPER.

Authors are asked to submit two copies of a one page summary (single sided; 500 words maximum) which clearly describes the work, and at most two additional pages of figures, drawings, and references.

Authors of accepted papers will receive an author's kit with instructions for the preparation of the camera-ready copy (four pages maximum) of the paper to be published in the Midcon/88 Conference Digest. The camera-ready copy will be due May 27, 1988.

FOR FURTHER INFORMATION AND A COPY OF THE CALL FOR PAPERS CONTACT:

Midcon/88 Technical Conference Committee
c/o Electronic Conventions Management
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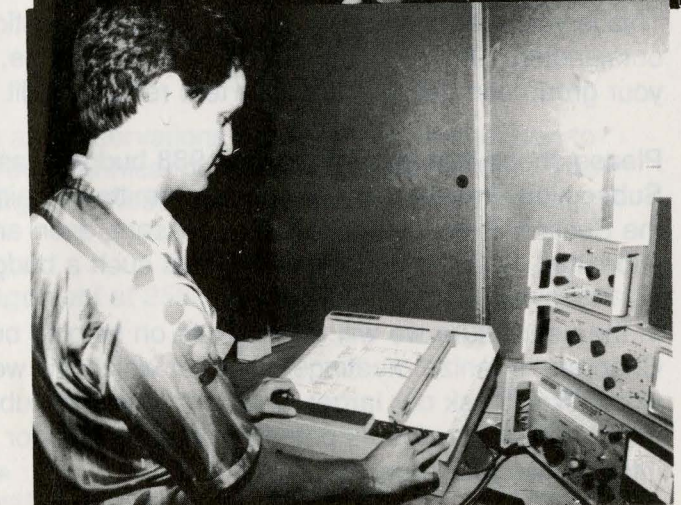
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NOMINATING COMMITTEE REPORT

The Chicago Section nominating committee chaired by Henry Korman met in November to develop a slate of officers for the executive committee for the 1988 - 1989 term. The following candidates are proposed:

POSITION	NAME
Chairman:	Joe Feitler
Vice-Chairman:	Robert Schrage
Treasurer:	George Stout
Secretary:	John Truit
Member Services:	Barry Brusso
Publications:	Bob Hofmann
Professional Activities:	John Waters
Conferences:	Howard Wolfman
Program:	Len Cohen
Student Activities:	Cara Lindell
Finance:	Henry Dwyer
Special Events:	Henry Korman
Awards:	Dennis Lamont

Nominations by petition will be accepted by the Section Executive Committee if accompanied by ten or more signatures of section IEEE members and submitted to the Section Secretary by the February Executive Committee Meeting on February 9, 1988 when nominations will be closed. The ballot for the election will appear in the April issue of Scanfax.

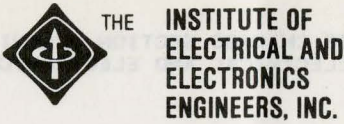
A MESSAGE FROM YOUR SECTION VICE CHAIRMAN

This is your last chance for your Chapter/Subsection Secretary to submit all outstanding 1987 meeting reports to Bob Schrage, our Section Secretary, so that your group can get full Headquarters rebate credit.

Please check that your proposed 1988 budget was submitted by your Chapter/Subsection Treasurer (or Section Committee Chairperson) and was approved by the Section Exec Committee. If necessary, even an interim budget can be submitted, with the understanding that such a budget can be revised later on.

In the near future we will concentrate on helping our smaller and/or newer Chapters organize meetings, some of which will we joint with others. Therefore we would like to ask our larger Chapters (and the Subsections) to consider some future meeting topics as potential opportunities for joint events. Please keep me informed of your progress.

Joe Feitler



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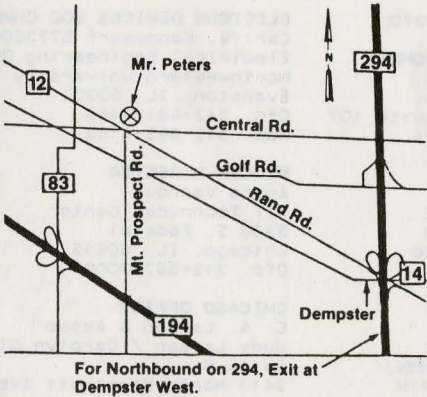
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CHICAGO CHAPTER

JANUARY 13, 1988 MEETING

SUPERVISORY CONTROL OF PIPELINES USING
SATELLITE COMMUNICATIONS

At our annual joint meeting with the Instrument Society of America's Chicago Section, Mr. Tom Tinor of Amoco Corporation will speak on Supervisory Control And Data Acquisition (SCADA) Satellite Systems.

Location
Mr. Peter's Banquets 1018 Mt. Prospect Ave. at Rand and Central Mt. Prospect Shopping Center Mt. Prospect, IL
Time
6:00 Cash Bar 7:00 Dinner 8:00 Technical Program



Reservations are required for dinner seating and reservations are highly recommended to assure seating for those who wish to attend the technical portion of the meeting only. The cost of the dinner is \$12.00. There is no charge for those attending the technical meeting only. Guests are welcome.

Please call Judy Larsen at Association Management at 255-3003 by Jan. 11 for reservations.

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John Waters - Prof Act
Henry Dwyer - Member Svcs

*** EXECUTIVE COMMITTEE MEMBER**

November 10, 1987