

EDITOR'S PROFILE of this issue

from a historical perspective ...

with Paul Wesling, SF Bay Area Council GRID editor (2004-2014)

September, 1973:

Cover: WESCON will be held this year in Brooks Hall, San Francisco.

More on page 8.

Page 2: Don Hoefler of Microelectronic News, who coined the term "Silicon Valley" in 1971, discusses the first two decades of MOS technology.

Pages 4, 5, 7, 2: The Section, Subsection, and Group (Chapter) officers for the coming year.



Archive of available SF Bay Area GRID Magazines is at this location:

https://ethw.org/IEEE_San_Francisco_Bay_Area_Council_History

At time of scanning, the bound volumes are held by Paul Wesling.

April, 2025

Contact p.wesling@ieee.org

Sept 12 thru 14 1973



Good

SAN FRANCISCO SECTION THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC.

WESCON

SEPT.
11-14

1973 WESTERN ELECTRONIC SHOW AND CONVENTION / BROOKS HALL, SAN FRANCISCO

SEPTEMBER 1973

Published monthly except June, July,
August and December by San Francisco Section
Institute of Electrical and Electronics Engineers

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\$4.00 per annum



INTERNATIONAL SYMPOSIUM on CIRCUITS and SYSTEMS

CALL FOR PAPERS

Sir Francis Drake Hotel
San Francisco, April 21-24, 1974

Papers due Oct. 15, 1973, 3 copies

Dr. L. O. Chua, Dept. of Elec. Eng.
and Computer Science
Univ. of Calif. Berkeley 94720

or

Dr. S. P. Chan, Dept. of Elec. Eng.
and Computer Science
Univ. of Santa Clara, Calif. 95053

GRID — 2

IAS — SHORT CIRCUIT ABC

Short Circuit ABC - learn it in an hour, use it anywhere, memorize no formula. The MVA method for solving industrial power system short circuits is made as easy to learn as the ABC's by Mr. Moon Yuen, Assistant Chief Engineer in Bechtel's Scientific Development Department. He has been teaching his method for U. C. Berkeley Extension and has organized his work into an excellent paper which will be available. The paper includes several step-by-step examples including motor starting voltage drop solved by the MVA method. Our new meeting site is the Beef House, 55 Stevenson Street between 1st and 2nd Streets, and between Market and Mission



EUROPEAN CONFERENCE ON ELECTROTECHNICS EUROCON 74

AMSTERDAM - APRIL 22-26, 1974
Call for Papers
Theme: The Engineer in Society.

Subjects:

Controlling the Future
Instrumentation Electronics
Communications for the 1980's
The Computerized Society
Biomedical Engineering
Education and the Needs of
Developing Countries

Information: Mr. W. E. Noller
Digital Telephone Systems
85 Mitchell Blvd., P.O. Box 4222
San Rafael, Calif. 94903, USA



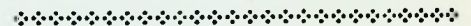
THREE DAY TUTORIAL ESTIMATION AND PREDICTION THEORY WITH APPLICATIONS

by Evolving Technology Seminars, Sept. 18, 19, 20, 1973. The Landmark Hotel, Las Vegas, Nevada. Estimation and prediction theory are changing rapidly. This course reviews the state-of-the-art of estimation and prediction processes and the basic elements to form an easily useable foundation. Principal Lecturer, Dr. L.A. Wan, President, SYNCOM, Inc. Fee: \$350, including notes, text, and room. For information call Dr. Donald J. Rauch, (213) 880-4127, 880-4700, or (714) 635-5680. Evolving Technology Seminars, 26188 Adamor Road, Calabasas, Calif. 91302. Sample enrollment form c/o Jean Helmke, IEEE office.

RELIABILITY: Chairman: P.J. GUILLOT, LMSC Org. 62-05, Bldg. 104, Sunnyvale 94088; (408) 742-3509. Vice Chairman: R.C. CORNWELL, Sylvania, P.O. Box 188, Mt. View 94040; (415) 966-2571. Secretary/Treasurer: R.C. KARPEN, Walter V. Sterling, Inc., NASA/ARC, N244-2A, Moffet Field 94035; (415) 965-6162. Program: O.D. TRAPP, Technology Associates, 51 Hillbrook Dr., Portola Valley 94025; (415) 851-8272.

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ED — MOS: THE FIRST TWO DECADES, by DON HOEFLER, MICROELECTRONIC NEWS

The Electron Devices Group will hold a meeting on September 18, 1973 at Rick's Swiss Chalet in Palo Alto. Don Hoefler, Microelectronic News, will speak on MOS: THE FIRST TWO DECADES presenting his view of MOS - Past, Present and Future. Don Hoefler will present his perspective of the people, companies, technologies and business important to MOS from his unique vantage point.

Don Hoefler has many years of editorial and personal experience with Electronic News, electronics and specialized public relations reporting on both the principal and background factors which influence the growth and diversity of the semiconductor industry.

The meeting will start at 8:00 P.M. following dinner at 7:00 P.M. and cocktails at 6:00 P.M. Reservations are arranged by calling 327-6622.

MEETING CALENDAR

MTT - ADVANCES IN TUNNEL DIODE AMPLIFIERS

ANTENNAS & PROPAGATION SEPTEMBER 13

Story on
page 6

SEX TRAPS FOR MALES - (MALE INSECTS, THAT IS). Dr. Joe Antognini, Vice Pres. for Product Development, Foecon Corp., Palo Alto

SEPT. 13, Thursday, 8:00 PM. Castaway Restaurant, Coyote Point Drive, San Mateo. Cocktails at 6:30 PM, dinner at 7:15 \$5.80 per person, in advance. Call Dr. A.G. Jennetti (408) 734-2244 for tickets. Roast beef or Polynesian delight. Make reservations by Sep 7th.

COMMUNICATIONS SOCIETY SEPTEMBER 5

Story on
page 8

WINE TASTING AND STEAK DINNER. KICKOFF MEETING.

SEPT. 5, Wednesday 6:30 for wine tasting. Dinner at 7:30 Mirassou Winery, Aborn Road, San Jose. Reservations by check: \$8.50 per person. Mail to Ken Peterson, GTE Lenkurt, 1105 Old County Road, San Carlos 94070 by Aug. 31st. For information call: Ken Peterson (415) 591-8461 x 573; Dick Sherman (415) 326-4350 x 4104 or Lee Stephens (415) 961-3535 x 266.

COMPUTER SOCIETY SEPTEMBER 12

Story on
page 6

THE DISTRIBUTED PROCESSING REVOLUTION. Rex Rice, Director of Technology, Fairchild Camera & Instrument Co., Palo Alto.

SEPT. 12, Wednesday, 8:00 PM. Skilling Auditorium, Stanford University. Dinner: 8:00 PM, Rick's Swiss Chalet, 4085 El Camino Way, Palo Alto. Reservations: Pat Rubin, (415) 965-6349 by noon Sept 12th.

ELECTRON DEVICES SEPTEMBER 18

Story on
page 2

MOS: THE FIRST TWO DECADES. Don Hoefler, Micro Electronic News, invited speaker.

SEPT. 18, Tuesday, 8:00 PM, Rick's Swiss Chalet, 4085 El Camino Way, Palo Alto. Cocktails at 6:00, dinner at 7:00 PM. Reservations: Section Office (415) 327-6622

GOLDEN GATE SUBSECTION SEPTEMBER 19

Story on
page 6

TOUR OF NEW PTT SWITCHING CENTER IN SAN FRANCISCO

SEPT. 19, Wednesday, 6 to 8 PM. Limited to 50 persons. Free parking available adjacent to 611 Folsom St. Meet at PTT Center at 611 Folsom St. (at Second Street). Reservations: Charles Ostrofe (415) 542-4576 by Sept. 1st. No dinner.

INDUSTRIAL APPLICATIONS SOCIETY SEPTEMBER 25

Story on
page 2

SEMINAR: SHORT CIRCUIT ABC - the MVA METHOD OF SHORT CIRCUIT ANALYSIS. MoonYuen, Asst. Chief Engineer, Bechtel Corp., San Francisco.

SEPT. 25, Tuesday, 7:30 PM. Beef House, 55 Stevenson St., San Francisco. Dinner at 6:30 PM \$6.25 steak dinner. Reservations: Wes Fenner, (415) 894-4022 by Sept. 24th.

MICROWAVE THEORY & TECHNIQUES SEPTEMBER 20

Story on
page 3

ADVANCES IN TUNNEL DIODE AMPLIFIERS. Paul Rumford, Product Line Manager for Negative Resistance Amplifiers at Aertch Industries in Sunnyvale.

SEPT. 20, Thursday, 8 PM. Hewlett-Packard, Bldg. 44, 5301 Stevens Creek Blvd., Santa Clara. No dinner.

POWER ENGINEERING SOCIETY OCTOBER 9

JOINT MEETING WITH COMMUNICATIONS SOCIETY CHAPTER. THE INVENTION OF THE TRANSISTOR - AN EXAMPLE OF CREATIVE-FAILURE METHODOLOGY. Dr. William Shockley, Prof. of Electrical Engineering, Stanford University, and Executive Consultant at Bell Laboratories (Story in October GRID).

OCT. 9, Tuesday, 8:00 PM. Engineers Club of SF. Cocktails at 6 PM, dinner at 7:00 PM. 160 Sansome St., San Francisco. Reservations: In SF, Molly Milan (415) 445-2227; Peninsula: Section Office (415) 327-6622. Ladies are invited.

SYSTEMS, MAN & CYBERNETICS

Story on
page 6

THREE POTENTIAL ENERGY SOURCES: SOLAR, GEOTHERMAL AND NUCLEAR. Edwin Kinderman and Richard Schmidt of SRI.

SEPT. 12, Wednesday, 8:00 PM. Conference Room B, Bldg. 1, 333 Ravenswood Ave., Menlo Park. Dinner: 6:15 PM. Red Cottage, 1706 El Camino, Menlo Park. Reservations: (415) 327-6622. Dinner \$6.00 per person.

5-Day Course **ELECTROMAGNETIC COMPATIBILITY - DESIGN & MEASUREMENT FOR CONTROL OF EMI.** Presented by Don White Consultants, Inc. The course covers the entire RFI/EMI/EMC field including inter- and intra-system/equipment analysis, EMC SPECS, control & test plans, instruments, test methods & procedures, & EMI control, fix and retrofit techniques. Place: Rickey's Hyatt House, 4219 El Camino, Palo Alto. Date: Oct 29 thru Nov. 2, 1973. Price: \$495/student. To register or for more information write: Don White Consultants, Inc., 14800 Springfield Road, Germantown, Md. 20767.



Emphasis on Tunnel Diode Amplifier hardware and application has shifted to take advantage of their wide bandwidth capabilities from 4 GHz through 18 GHz. TDA's have already proved themselves in high-reliability satellite applications, providing low noise preamplification, gain control and low level limiting functions in the toughest of environments. Now system designers are discovering TDA's as wideband TWT replacements in reconnaissance systems, taking advantage of their longer life (Actual Space Communications TDA Life Data) and low level limiting characteristics heretofore unavailable. Multi-channel systems are now able to employ gain and phase tracking pairs and quads over wide temperature ranges, with low power consumption. Improvements in manufacturing techniques allow a wide range of specifications to be met for special applications. Protective diode limiters allow operating in high RF power environments. Noise figures continue to be competitive with both TWT's and presently deployed transistor amplifiers, while dynamic range is improved by the use of Gallium Arsenide diodes in output stages.

The speaker, Paul Rumford graduated from San Jose State in 1964 with a major in Electrical Engineering. He has been employed by Sylvania, Melabs, and Aertech as a microwave engineer, working principally in the design of Paramps and Negative Resistance Amplifiers. He is currently a Product Line Manager for Negative Resistance Amplifiers at Aertech Industries in Sunnyvale.



EDUCATION OPPORTUNITIES

University of California

1. Digital Integrated Circuits and Systems Berkeley, 7-9:30 p.m. Tues. Sept. 18- Dec. 4.

2. Linear Integrated Circuits and Systems Atherton, 7-9:30 p.m. Thurs. Sept. 20- Dec. 13. Prof. Narpal Bhandari, Electronics Eng. Lawrence Radiation Lab. Fee - \$70. Information - Office of Continuing Education in Engineering University Extension - Univ. of California, Berkeley; (415) 642-4151.

SAN FRANCISCO SECTION DIRECTORY 1973 — 1974

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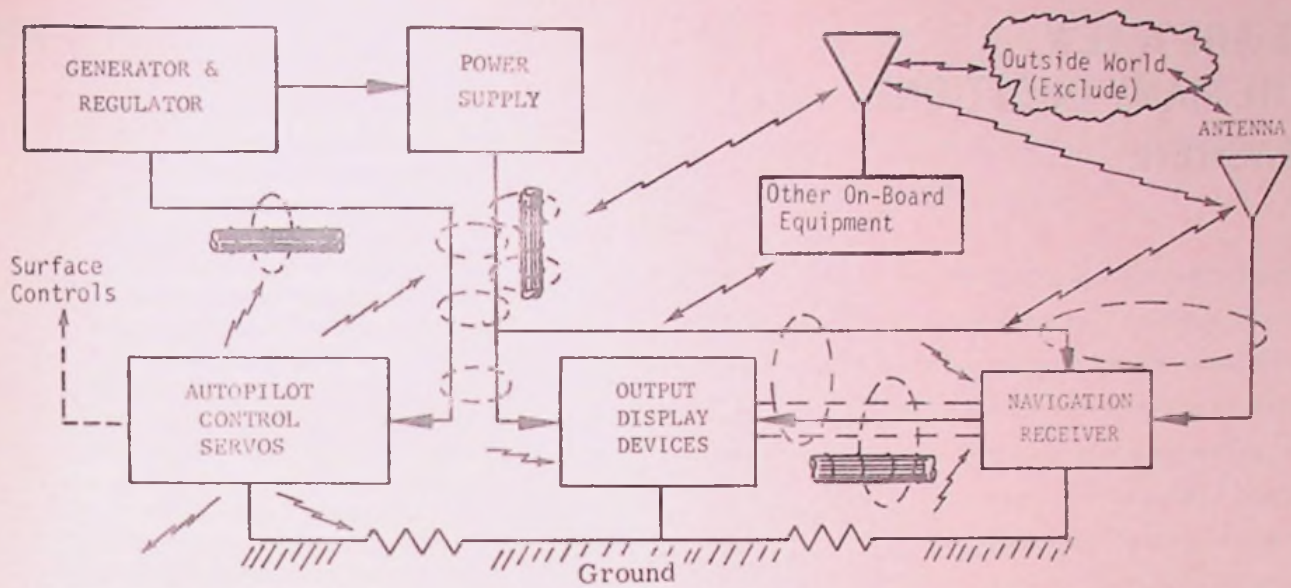


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Program: E.D. JACKSON (Section Vice Chairman).

Publicity & Public Relations: HADI MONSEF, Bechtel Corp., P.O. Box 3965, San Francisco, 94119; (415) 764-4195.



ELECTROMAGNETIC COMPATABILITY

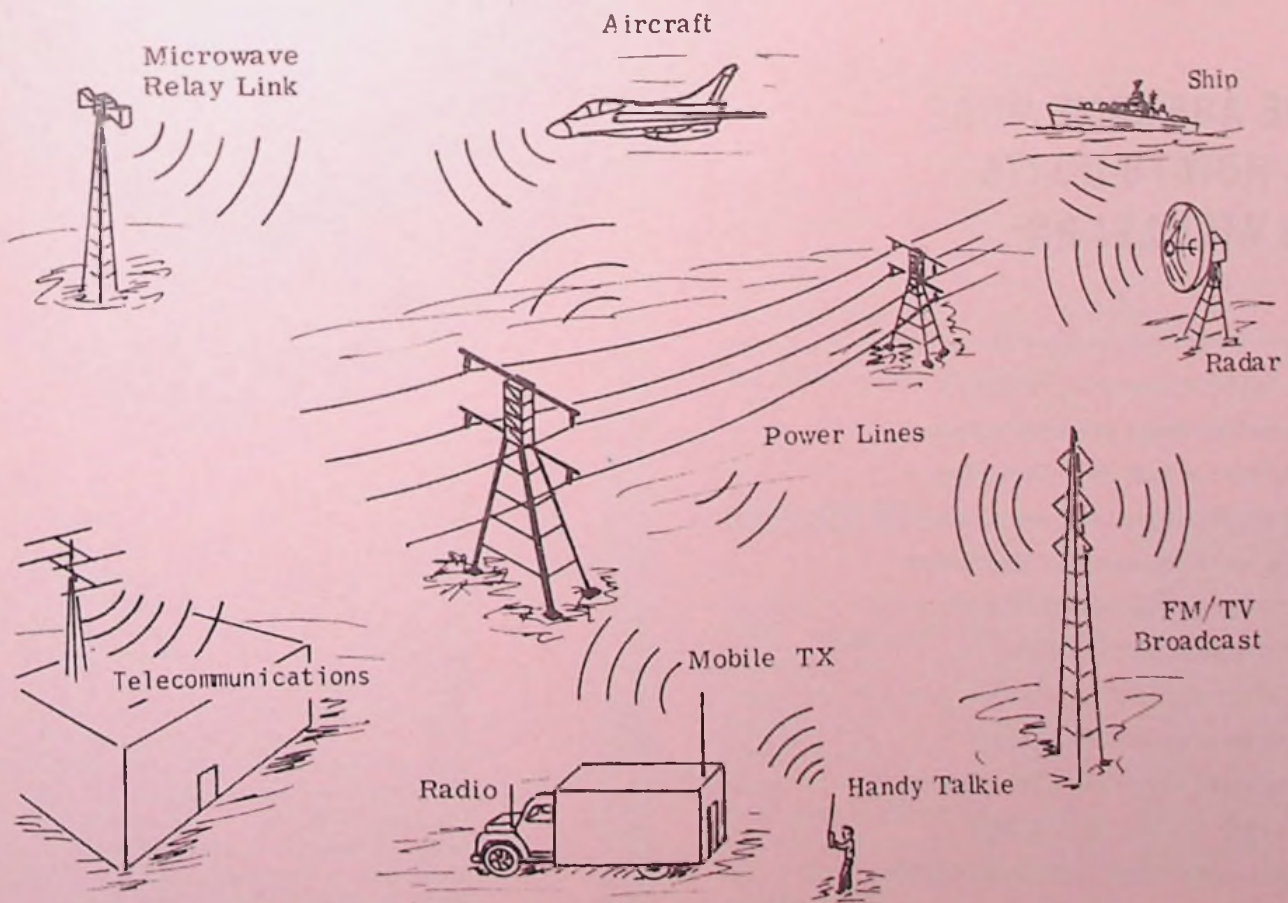
DESIGN & MEASUREMENT FOR CONTROL OF RFI/EMI

WASHINGTON, D.C.
SEPTEMBER 17-21, 1973

TORONTO, ONTARIO
SEPTEMBER 10-14, 1973

SAN FRANCISCO, CALIF.
OCT. 29 - NOV. 2, 1973

(9:00 A.M. – 5:00 P.M.)



HERE ARE A FEW OF THE MANY QUESTIONS WE ANSWER:

- Where and How do you ground a cable shield?
- How much shielding is needed in chassis boxes?
- Which is better: twisted wire pairs or coaxial cables?
- When do you use triaxial or quadrax cables?
- What's the best way to suppress troublesome transients?
- How does frequency management work?
- How do you select EMI gasketing?
- How much receiver front-end rejection is enough?
- What does grounding really buy me? At VHF & UHF?
- How to tell and block common or differential mode EMI?
- How do you select or specify an EMI filter?
- How do you shield against magnetic fields?
- Should I do EMI Testing in-house or contract out?
- How do I write EMC portions of RFQ/RFPs?
- How do I respond in proposals with EMI specs?
- How do I engage EMI inspectors and QA Personnel?
- How do you comply with FCC Rules and Regulations?
- How do you comply with CISPR Specifications?
- How do you comply with VDE, CSA, and other Specifications?

HERE ARE SOME MORE EMC HOW-TO-DO-ITS YOU WILL LEARN:

- How to Predict and Analyze EMI
- How to EMI trouble shoot computers
- How to EMC design and retrofit computers
- Single-Point or Multi-Point Grounding
- The truth about grounding and bonding
- How to write your own EMI specification
- How to write an EMI Control Plan
- How to write an EMI Test Plan
- How to equip an EMI Test Facility
- How to get or prevent EMI Waivers
- How to select light-weight EMC components
- How to EMI-Control your products
- How to run down EMI culprits and victims

COURSE OUTLINE

First Day (Problems, Community, Committees, Specifications and Control/Test Plans)

Definition of EMI with examples
Inter/intra-system Interference
Terms and Definitions
Who is EMC Community and Committees
Review of EMC Specifications
EMI-Control Plans
EMC Test Plans and Reports

Second Day (Equipment Design Techniques for EMI Control)

Inter-system EMI Prediction and Control
Intra-system/Equipment EMI Control
Wiring and Harnessing Theory and Solutions
Grounding and Bonding-Theory and Solutions
Shielding-Theory, Components and Techniques

Third Day (Equipment Design Techniques for EMI Control)

Packaging and Gasketing-Theory and Practice
Filters and Filtering Techniques
Transient Noise Suppression
EMI Control in Circuits and Networks
Illustrative Examples-Analysis of class generated products

PREVIOUS EMC TRAINING

Aberdeen Proving Ground — Aberdeen, Md.
AEL Israel, Ltd. — Ashdod, Israel
Amecom, Litton — College Park, Md.
ARINC — Annapolis, Md.
Army Missile Command — Redstone Arsenal, Ala.
Army Security Agency — Arlington, Va.
Bailey Meter — Wickliffe, Ohio
Barringer Research — Toronto, Canada
Beech Aircraft — Wichita, Kansas
Boeing Vertol — Philadelphia, Pa.
Canadian Forces — Ottawa, Canada
Computing Devices of Canada
Eastman Kodak — Rochester, N.Y.
Elta Electronics — Ashdod, Israel
Emergency Care Research — Phila., Pa.
FAA — Alaska
FAA — Atlantic City, N.J.
FCC — Washington, D.C.
FMC Ordnance — San Jose, Calif.
Forest Service, USDA — Washington, D. C.
Goodyear Corp. — Akron, Ohio
Harry Diamond Labs — Washington, D.C.
Hewlett Packard — Loveland, Colo.
Honeywell, Inc. — Minneapolis, Minn.
Honeywell, Inc. — St. Petersburg, Fla.
IBM — Owego, N.Y.
IBM — Boulder, Colo.
I.E.E. Inc. — Van Nuys, Calif.
Inst. of Telcom Sciences — Boulder, Colo.
Jet Propulsion Lab — Pasadena, Calif.
Lockheed M&S Co. — Sunnyvale, Calif.
Lorain Products - Lorain, Ohio
Magnavox — Torrance, Calif.
Metal Bellows — Chatsworth, Calif.
Bell Northern Research — Ottawa, Ontario, Canada

THE (SYLLABUS)

Fourth Day (Test Areas, Antennas, Sensors and Instrumentation)

- EMI Test Areas-Open Field and Shielded Rooms
- Antenna Factors
- Emission Antennas
- Special Susceptibility Test Chambers
- EMI Conducted Sensors: Current probes and LISN's
- Overview of EMI Instruments
 - Receivers
 - Spectrum Analyzers
 - Impulse Generators
 - Signal Sources
 - Power Oscillators
- Instrumentation Demonstration (option)

Fifth Day (Measurement Techniques)

- Explanation of Broad and Narrowband Interference
- Coherent and incoherent noise
- Conducted Emission Measurement Techniques
- Radiated Emission Measurement Techniques
- Electromagnetic Ambient Site Surveying
- Test Specimen Degradation Criteria
- Conducted Susceptibility Measurement Techniques
- Radiated Susceptibility Measurement Techniques

SCHOOL PARTICIPANTS

- MIGD Graphic Systems - Chicago, Ill.
- Milicrowave Communications, Inc. - Wash., D. C.
- NAASA, Goddard - Greenbelt, Md.
- NAASA, Marshall - Huntsville, Ala.
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- Naval Air Sys. Cmd. - Washington, D.C.
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- Naval Ship Engrg. Center - Hyattsville, Md.
- Naval Weapons Laboratory, Dahlgren, Va.
- National Institutes of Health - Bethesda, Md.
- National Weather Service - Silver Spring, Md.
- Phnilco-Ford - Willow Grove, Pa.
- Picatinny Arsenal, US Army - Dover, N.J.
- Raytheon Co. - Bedford, Mass.
- Redstone Arsenal, US Army - Huntsville, Ala.
- Robins AFB - Georgia
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- Watkins Johnson - Rockville, Md.
- Westinghouse Electric - Pittsburgh, Pa.
- Hewlett Packard - Sunnyvale, Calif.
- IBM - Gaithersburg, Maryland

FIVE-DAY EDUCATION & TRAINING COURSE ON ELECTROMAGNETIC COMPATIBILITY

COURSE DESCRIPTION

This is a one-week seminar on Electromagnetic Interference (EMI) control and Electromagnetic Compatibility (EMC), alias electrical or radio noise and control, alias Radio-Frequency Interference (RFI) and control. The course is comprehensive and covers the RFI/EMI/EMC field including inter- and intra-system/equipment analysis, EMC specifications, control and test plans, EMI control, fix, retrofit techniques, and test methods and procedures.

While the course reviews basic fundamentals including the physics, electronics, and mathematics involved, it is pragmatically oriented. Case histories and illustrative examples are used throughout to help the student assimilate the material presented.

The principal text used is Vol. 3, *EMI-Control Methods and Techniques*. Other hand-out material and samples are also included. Other volumes in the EMI/EMC handbook series are available to registered students at a 30% discount up to time of last day of course only.

WHO SHOULD ATTEND

The course is intended for engineers, senior technicians, and managers—both government and industry—who have a need-to-know the RFI/EMI/EMC topics. This includes those preparing or evaluating proposals, control plans, and test plans; system, equipment, instrument, and circuit designers; those specifying or purchasing EMI test instruments; test and QA personnel; and installation and system/equipment operational personnel.

INSTRUCTOR

Donald R. J. White holds BSEE and MSEE degrees from University of Maryland. He is a consultant in electromagnetic compatibility and has published several books and many papers. Over the past 20 years, he has held management and engineering positions in government as well as large and small industry. He is past National chairman of the IEEE Professional Group on EMC.



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GENTLEMEN: Please register me by my "X" marked choice(s) below for the following EMI/EMC Course(s). The course fee includes attendance, DWC handbooks* and other reference material, coffee/cokes and luncheons.

- September 17-21, 1973; Washington, D. C.* Price: \$495 per student;
 - October 29 - November 2, 1973; San Francisco, Calif.* Price: 495 per student**
 - At your facility, East of Mississippi; Price: \$3,350
 - At your facility, West of Mississippi; Price: \$4,200
- } Write for Details
- Send additional information on this Electromagnetic Compatibility Course including detailed syllabus
 - Send information on other training courses on:
 - EMI Prediction and Analysis
 - EMC Proposal Preparation & Evaluation.
 - MIL-STD-462 EMI Testing and Clinic
 - EMI Case Histories and Solutions
 - Mobile Communications
 - Option: 5-volume EMI-EMC handbook series. Write for details

Indicate method of payment for the EMI/EMC Training Course (make checks payable to *Don White Consultants, Inc., Training School*):

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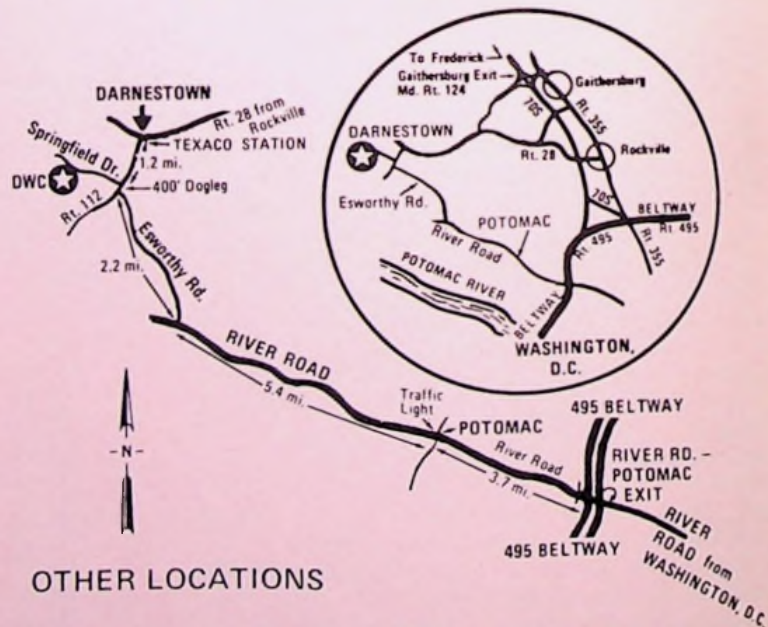
Register now and assure reservations for one or more students.

** Price of the course is \$495 for one student payable in advance, or \$550 if either invoicing is necessary or if payment is received after end of course. For three or more students from the same organization, deduct 20%. Applicants may cancel up to ten (10) days before course begins and receive 100% credit toward another DWC training course; thereafter, or for *no show*, no refund is made. Substitutions may be made at any time. Please complete registration form and mail now to assure space reservation.

LODGING RESERVATIONS

The five-day training course is taught in San Francisco and Darnestown, Maryland, a suburb of Washington, D. C. (see map). Students provide their own transportation and may stay at the Ramada or Holiday Inns or the Washingtonian. Overnight Lodging rates are \$16-\$18 for a single and \$18-\$24 for a double. Less expensive lodging exists within 10 miles. Send us your requirements and we will make your arrangements.

LOCATION - Washington, D.C.
(Darnestown, Maryland)



OTHER LOCATIONS

To minimize your travel and per diem costs, the course is also taught in San Francisco, Calif. at the Rickies Hyatt House and Toronto, Ontario. Additionally, it can be taught right in your facility. Also the course emphasis can be adjusted to meet your specific needs.

*See last sentence, third paragraph, Course Description.

SFBA Engineering Council Delegate:
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C — THE DISTRIBUTED PROCESSING REVOLUTION

The advent of LSI and, more particularly microprocessors, has delivered on the promises made for many years that inexpensive processing would be available. The hand-held mathematical calculators represent one special, though extensive, application of distributed processing. The next step involves the addition of program storage, data storage, peripheral inputs and outputs, and a connection to data networks. Intelligent and inexpensive terminals, properly designed to be used by computing novices, can fall into this category.

This talk explores the hardware and software implications of distributing the maximum amount of processing to intelligent terminals of this type, leaving data base file management as the main function of the central system. Postulated computers in the home are discussed. The speaker believes we are on a threshold of revolution in distributed control and processing which will have a far-reaching impact on our entertainment, our jobs, and our intellectual enhancement. This talk is philosophical and leaves the details of microprocessor design and use to others who are highly qualified in these subjects.



SMC - UNCONVENTIONAL ENERGY SOURCES

The September SMC Chapter Meeting will feature a critical appraisal of alternative energy sources for augmenting California's energy supplies for the balance of the 20th Century. Three potential energy sources will be highlighted: Solar, Geothermal, and Nuclear. The speakers will be two Stanford Research Institute researchers who contributed heavily to SRI's recent evaluation of California's energy future: Edwin M. Kinderman and Richard A. Schmidt. Dr. Schmidt's background is in economic geology and environmental and resource management analysis and Planning, with degrees from Franklin and Marshall College and the University of Wisconsin. Dr. Kinderman, who will speak on solar and nuclear energy prospects, has an extensive background in technoeconomic analysis of the nuclear industries, radiation, and radiochemistry; he holds degrees from Oberlin College and Notre Dame.

GGSS — NEW P.T.&T. SWITCHING CENTER IN SAN FRANCISCO

The Golden Gate Subsection is sponsoring an engineering tour of Pacific Telephone's major new switching center at 611 Folsom Street (at Second Street) in San Francisco.

The tour will include observation and description of two of the latest types of telephone switching equipment; a stored-program-control Electronics Switching System, which serves over 10,000 local customers, and a long distance trunk switching machine. These two switching machines occupy several floors of the new windowless building. Gas turbine emergency power, a new computer-controlled call intercept system, and other of the latest types of telephone equipment will be included in the tour.

The tour will be from 6 to 8 PM, Wednesday, September 19, and is limited to 50 persons. Free parking is available adjacent to 611 Folsom Street. Please call Charlie Ostrofe (415) 542-4576 for reservations by September 1.

AP -- SEX TRAPS FOR MALES (MALE INSECTS, THAT IS)



The September meeting will be held at the exotic Castaway Restaurant, overlooking San Francisco Bay at Coyote Point. Spouses and dates, who are cordially invited to attend, will find this timely talk to be both informative and humorous. Dr. Joe Antognini, an authority on ecologically acceptable methods of insect control, will discuss the exploitation of insect behavior to minimize the need for toxic, nonspecific pesticides. Dinner will feature a choice of roast prime rib au jus or Polynesian delight (filet mignon, south seas style). Salad, wine, dessert, coffee, tip are all included at \$5.80. For tickets, call Dr. A.G. Jennetti, ESL Inc., 734-2244, or any program committee member by Sept. 7. Cocktails in the lounge at 6:30, dinner at 7:15, Thursday, Sept. 13.

IEEE NUCLEAR POWER - SYSTEMS SYMPOSIUM and NUCLEAR SCIENCE SYMPOSIUM

Sheraton Palace Hotel
San Francisco, Nov. 14, 15 and 16

Information: John F. Osborne
General Electric Company
175 Curtner Ave., MC-665
San Jose, Calif. 95114
Phone 408-297-3000, x 2374

SEVENTH ANNUAL ASILOMAR CONFERENCE ON CIRCUITS, SYSTEMS, AND COMPUTERS

November 27 - 29, 1973
Asilomar Hotel, Pacific Grove, Cal.
Information: Dr. John Choma, Jr.
Hewlett Packard, Santa Clara 95050

1973 NINETEENTH ANNUAL CONFERENCE ON MAGNETISM AND MAGNETIC MATERIALS

Statler Hilton Hotel, Boston
November 23-26, 1973

ULTRASONICS SYMPOSIUM

U. S. Naval Postgraduate School
November 5-7, 1973. Information
Prof. J. R. Neighbours, Dept. of
Physics and Chemistry, NPG
School Monterey 93940 - ph. (408)
646-2902

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SOCA - Engrg. Dept., P.O. Box 3069, San Francisco 94119; (415) 894-4022. Secretary/Treasurer: M.H. YUEN, Bechtel Corp., P.O. Box 3965, San Francisco 94119; (415) 764-4067.

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P.J. GUILLOT



J.H. BRYAN

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COM-WINE TASTING AND DINNER

Wine tasting and steak dinner at the Mirassou Winery highlight the Communication Society social meeting on Wednesday, September 5. The ladies are especially invited to this event as business will be limited to introduction of officers.

Wine tasting starts at 6:30 P.M.; New York steak dinner at 7:30. Reservations (with check for \$8.50 per person) must be received by Ken Petersen, c/o G.T.E Lenkurt, 1105 County Road, San Carlos, 94070; 415-591-8461, Ext. 573. Space is limited, so please reserve early.

Mirassou Winery is located in the Evergreen section of San Jose on Aborn Road, south of White Road.

Wescon's 22nd annual mid-year "show-and-tell" event opens in San Francisco September 11, and is expected to attract more than 25,000 technologists and other industry members to its program and exhibits.

It's the first time the big show and convention have been in September in the Bay Area. After many years of August events, Wescon moved one month later for the first time in 1972.

Except for two off-site conferences, all of this year's show and program will be held in San Francisco Civic Auditorium and Brooks Hall. All exhibit space has been sold for several weeks, with about 270 manufacturers occupying 500 exhibit units.

Upstairs in Civic Auditorium, a diversified program of 33 half day professional sessions will be presented in five major meeting rooms, starting Tuesday morning and ending at noon on Friday. (A full listing of session details will reach all Region 6 IEEE members by direct mail about August 20).

The program was planned by a Bay Area volunteer committee headed by Co-Chairmen Tom Magill (SRI) and Dan Lansdon (H-P Labs), and including Andy Nalbandian (Lockheed M&S); Terry Jackson (Lawrence Lab); Alan Mitchell (H-P); Bob Tellefsen (Motorola); A.J. Kurtzig (Itel); Ed Carr (Pacific Tel); and Alan Grebene (Exar-Integrated Systems).

About 25 of the sessions survived a proposal "competition" early in the year, and others were originated by the committee to cover topics it considered to be of special interest to the anticipated audience of engineers and managers, most of whom will come from the Bay Area and Southern California.

In addition to the regular program, a two-day workshop in manufacturing technology will be presented September 12 and 13 at the San Francisco Hilton, under co-sponsorship of Wescon and the IEEE Manufacturing Technology Group. The workshop carries a \$100 registration fee, which includes luncheons both days and a printed record of proceedings. About 25 authors form the faculty for the workshop, titled "Improving Producibility."

A special convenience for Peninsula commuters to San Francisco will be the "Free-way flyer" bus system from the Cabana Hyatt House in Palo Alto to Civic Center and return. Engineers can park free at the Cabana and ride the special buses to Wescon and return for the round-trip fare of \$3. Buses will run from 8 a.m. each morning until after show closing each day (5 p.m. Tuesday and Thursday, 9 p.m. Wednesday, 4 p.m. Friday). Over-the-counter registration fee for Wescon's show, program and other special events for all four days is \$5.

Wescon's traditional all-industry cocktail reception will be held Tuesday evening in a particularly colorful location--the just-completed Powell Street BART station at Market and Powell in San Francisco. Chairman Emmet G. Cameron (Varian) got special sanction for the event because of the high-interest by engineers in the BART system. Price for the party is \$7.50.

Feminine visitors to Wescon will have their own program of special events, under the theme of "Vintage '73." Highlights include a Tuesday Buffet luncheon at the top of the Hilton Tower (no charge), a Wednesday morning tour to the Oakland Museum of Art, and a Thursday sojourn to Napa Valley, including a tour of the Louis Martini Winery and luncheon at the Robert Mondavi Vineyard. (Price per person, including transportation and luncheon, is \$5).



1974 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS ICC 74 CALL FOR PAPERS

Leamington Hotel, Minneapolis
June 17-19, 1974

Five clear copies of both paper and one page abstract to:

Dr. M. S. Ulstad, ICC74
P.O. Box 35366, Minneapolis 55435

IEE COMPUTER SYSTEMS AND TECHNOLOGY CONFERENCE

IEEE - London; Oct. 29-Nov. 1, 1974

Call for Papers-Deadline Jan. 7 '74

Subjects: Systems Hardware; Systems Structure; Education and Retraining; Communications Systems; System Software; Computer Systems.

Information: IEE Conference Dept.
Savoy Place, London WC2R 0BL