

EDITOR'S PROFILE of this issue

from a historical perspective ...

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

September, 1975:

Cover: The photo shows past crowds at WESCON, being held this year in mid-September at San Francisco's Civic Auditorium. See pages 2-4.

Pages 5-8: The new officers for our three new Sections are introduced, along with the officers of the many chapters. We finally get a photo of Jean Helmke, the IEEE office manager in Palo Alto. I was often in that office, to print off and fold copies of short course flyers, which I'd mail out (3rd Class) to members using our Permit #14 at the Palo Alto Post Office. See more about these Short Courses in the December 1980 issue of the GRID.

Page 11: The Council's Professional Activities Committee (PAC) has gathered feedback from 450 members, and is trying to address the under-employment and unemployment among engineers in this economic downturn.



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

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SAN FRANCISCO BAY AREA COUNCIL THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

Grid

SEPTEMBER 1975



WESCON 75

Sept. 16-19, Brooks Hall/Civic Auditorium, San Francisco

Further information: Wescon, 3600 Wilshire Boulevard, Los Angeles, California 90010 (213)381-2871

WESCON75

The Professional Program at a Glance

TUESDAY, September 16

| | | | | | |
|---------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 10 am - 12:30 pm | 1 Microcomputers - How to get Started Meeting Room 105 | 2 Sources of Capital in Difficult Times Meeting Room 103 | 3 Instrument Interfacing with IEEE Standard Bus Meeting Room 104 | 4 Computer Aids for LSI Design and Tooling Meeting Room 106 | 5 Telephone Private Branch Exchanges (Electronic PBXs) Meeting Room 321 |
|---------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|

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|-------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1:30 pm - 4 pm | 6 Microprocessor/ Microcomputer Hardware & Software Support Systems Meeting Room 105 | 7 ESOPs for High- Technology Companies Meeting Room 103 | 8 IC Packaging and Interconnection Meeting Room 104 | 9 Laser Detection and Ranging Devices (LADAR) Meeting Room 106 |
|-------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

WEDNESDAY, September 17

| | | | | | |
|---------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 10 am - 12:30 pm | 10 Microprocessor Applications Meeting Room 105 | 11 Fielding a Winning Sales Team Meeting Room 103 | 12 Electronic Watches I Meeting Room 104 | 13 Explosion in ATE Test Generation Meeting Room 106 | 14 Energy Policy Deci- sions: Opportunities & Uncertainties Meeting Room 321 |
|---------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|

| | | | | |
|-------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|
| 1:30 pm - 4 pm | 15 Microcomputer Design Aids Meeting Room 105 | 16 Purchasing: Limits of Responsibility Meeting Room 103 | 17 Electronic Watches II Meeting Room 104 | 18 Synchronous Data Link Control Meeting Room 106 |
|-------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|

7 pm Special Session: "PSYCHOTRONICS" Larkin Hall

THURSDAY, September 18

| | | | | | |
|---------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 10 am - 12:30 pm | 19 I ² L and CCD Applications Meeting Room 105 | 20 Needs and Trends in Medical Electronics - 1975 Meeting Room 103 | 21 High-Speed Printers for Minis and Micros Meeting Room 104 | 22 ATE in Board and Component Manufac- turing Process Meeting Room 106 | 23 Promoting Women? What's the Problem? Meeting Room 321 |
|---------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|

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|-------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1:30 pm - 4 pm | 24 Microprocessors in Medical Instrumentation Meeting Room 105 | 25 Hybrid Micro Clinic on Beam-Leads Meeting Room 103 | 26 Field Programmable Logic Meeting Room 104 | 27 ATE in Manu- facturing Process Meeting Room 106 | 28 How to Succeed in International Business Meeting Room 321 |
|-------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

FRIDAY, September 19

| | | | | | |
|---------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 10 am - 12:30 pm | 29 Present and Future of Sophisticated Pocket Calculators Meeting Room 105 | 30 The Engineer and His Profession Meeting Room 103 | 31 Electronic Identifi- cation Systems Meeting Room 104 | 32 Communications Satellite Systems Meeting Room 106 | Education Session: Region 6, IEEE Student Papers Competition Meeting Room 321 |
|---------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

WESCON 'NEXT 1000 DAYS' WILL ATTRACT 30,000

High technology places its best foot firmly forward on September 16 in beautiful San Francisco, with the opening of the 24th annual Wescon showcase of electronics progress.

"Electronics in the Next Thousand Days" is the theme-line around which a re-surg-ing industry and technology have built a landmark week for new hardware and software introduction, lively technical debates and applications sessions, and a dozen or more special added attractions.

All exhibit space in San Francisco's Brooks Hall has long been contracted by more than 300 manufacturers. It will be a full-house showing of new devices, equipment, and systems, especially significant this Fall as the industry "turns it around" from a severe down-time.

Up to 30,000 electronics professionals are expected to fill the show aisles, professional sessions, and special seminars and demonstrations during the four-day Wescon week.

The show and program will run from Tuesday, September 16 through Friday, September 19. The big exhibit and all Wescon sessions are just an escalator ride apart in the big Civic Center complex in downtown San Francisco. Registration for the four-day show and the full Wescon professional program is just \$5 per person.

A two-day, special fee program on new-business entrepreneurship is to be presented (described elsewhere in this program), and there will be a continuous Science Film Theater of new technical motion pictures, several private systems demonstrations, special business and social events, and a Wednesday night special - a brand new presentation of "Psychotronics, 1975", the UCLA parapsychological research project that intrigued more than 1100 persons at Wescon last year.

Other special features include a special historical exhibit of breakthrough electronics products, inspired by the bicentennial year, and organized by a blue-ribbon committee of Drs. Frederick E. Terman, Finley Carter, and Emmet G. Cameron.

Full-manuscript preprints of nearly all Wescon sessions will be available on-the-spot during the convention.

A computerized registration system will give each visitor an embossed inquiry badge and is designed to get him through the "sign-up" process and into Wescon's red-carpeted aisles in record time.



San Francisco Civic Center goes all-electronic September 16-19, as the 24th Wescon fills Civic Auditorium and Brooks Hall.

32-Session Tech Program Stresses 'Trends, Needs'

Thirty-two half-day program sessions, plus a Wednesday evening "special", all carefully aimed at "the next thousand days", have been announced for Wescon in San Francisco.

Co-chairmen Alan Mitchell of Hewlett-Packard and Andrew Nalbandian of Lockheed and their committee have been at work since late last year in developing a program already being described as one of the strongest ever presented by Wescon. More than 50 session proposals were received by the committee in answer to a "call". The final total of 32 resulted from a two-stage competition, buttressed by sessions originated by committeemen themselves.

Microprocessors and microcomputers are again headline topics - but in terms of applications, interfacing, and software support. Automatic test will also get heavy attention, as will prime sessions in communications, manufacturing, and instrument applications. The program is spiced with subjects in management, careers of women, the engineer as a professional, and in marketing.

Sessions will be presented in large, air-conditioned meeting rooms of Civic Auditorium, and will be offered in concurrent groups of four at 10 a.m. and 1:30 p.m. daily starting Tuesday, September 16 and ending on Friday morning. Dr. Thelma Moss and her group of UCLA researchers will present a special update on "Psychotronics" in a special session Wednesday evening that will feature film, slides, and other illustrations.

Members of the program committee include Steven Gadol, Hewlett-Packard; Alan B. Grebene, Exar-Integrated Systems; Frank S. Greene, Technology Development; Charles R. Long, Long & Associates; Jerry Metzger, United Technical Publications; and Howard Turner, Pacific Telephone.

SPECIAL PRIZE ATTRACTION!

All Wescon visitors who complete a simple questionnaire (provided as part of the printed Wescon program) will be eligible for daily prize drawings of HP-21 scientific pocket calculators.

Wescon is offering the prizes as an inducement for cooperation in a visitor survey aimed at continuing improvement of Wescon programming. Winners need not be present at prize drawings.

Wescon Times, Dates

Tuesday, September 16

Show hours: 9:30 am to 5:00 pm

Sessions: 10:00 am and 1:30 pm

Wednesday, September 17

Show hours: 9:30 am to 9:00 pm

Sessions: 10:00 am and 1:30 pm

Thursday, September 18

Show hours: 9:30 am to 5:00 pm

Sessions: 10:00 am and 1:30 pm

Friday, September 19

Show hours: 9:30 am to 4:00 pm

Sessions: 10:00 am

'Flyers' Serve Commuters

Wescon's Bayshore Flyers will be on the road again this year, providing round-trip commuter service from the Peninsula to Civic Center.

Wescon attendees can head for either of two Peninsula bus "terminals": The Cabana Hyatt House in Palo Alto or the Holiday Inn in Belmont, a few miles north. In both locations, there will be free parking. Regularly scheduled, air-conditioned Bayshore Flyers will carry visitors to and from Wescon for a \$3 round-trip fee, and will operate during all show hours, Tuesday through Friday.

Enroute, attendees will be able to use the official Wescon program to plan their visits, and can save a little time by completing registration cards.

The special bus system served about 3000 persons in 1973, and with the new Holiday Inn pickup point, is expected to surpass that total this year.



Electronics in the next 1000 days

It starts right here! Wescon in San Francisco will be the best all-electronics show and convention anywhere in the world this year.

The very best.

It presents the best and most useful professional program for engineers, all concentrated on need-to-know in the next thousand days.

325 OEM's will introduce the newest generation of leading-edge products and systems in a demo-show that's been *sold out* for three months.

Meaningful seminars and special events all aimed at helping *you* in *your* career now!—not in the far future.

It's a booming Wescon Week in beautiful San Francisco—and it gives you the best possible "short course" in what's coming, and coming fast.

You can have all four busy, profitable days of it for a \$5 registration fee, payable at the door.

Don't miss "Electronics in the Next Thousand Days."

It's the very best!

WESCON75

Sept. 16-19, Brooks Hall/Civic Auditorium, San Francisco

Further information: Wescon, 3600 Wilshire Boulevard, Los Angeles, California 90010 (213)381-2871

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To Be Announced,



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1975 INTERNATIONAL CONFERENCE on CYBERNETICS and SOCIETY

Sponsored by IEEE Systems, Man & Cybernetics Society

September 23-25, 1975
Hyatt Regency Hotel, San Francisco

1975 Program

As in previous years, the conference will cover the full range of systems sciences and engineering. A special theme of the 1975 Conference, however, will be Technology Forecasting and Assessment. The first session on Tuesday morning will be a conference-wide session on "Technology and Goals: 1975 - 2000" consisting of a distinguished panel including technologists and political and social scientists. This theme will be continued in a series of five sessions throughout the conference.

The remainder of the Conference is organized around four major areas: Computers as Tools, Man-Machine Systems, Biocybernetics, and Societal Applications. A special highlight of the Conference will be an evening, public panel discussion on the California Nuclear Initiative.

Welcoming Remarks

Mr. John Barbagelata, Acting Mayor of San Francisco and member of the San Francisco Board of Supervisors, will open the conference.

Technology and Goals; 1975 - 2000

A distinguished panel will explore the relation between technology and goals in the remaining quarter of this century. The feasibility of social indicators, other than purely economic ones, for measuring progress toward societal goals and the consequences for society of choosing different technological options will be examined.

Dr. Louis Fein, Chairman
Consultant
Palo Alto, California

Panelists

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Dr. Willis W. Harman, Director Center for the Study of Social Policy Stanford Research Institute Menlo Park, California | Dr. Roy Amara, President Institute for the Future Menlo Park, California |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|

Prof. Amitai Etzioni,
Director
Center for Policy
Research
New York City
Dr. Leonard Lecht,
Director
Special Projects
Research
The Conference
Board
New York City

Dr. Ruth Davis
National Bureau of
Standards
Washington, D.C.

Dr. David Kean
Technoculture
Associates
Palo Alto, California

Dr. Robert Whitesel, Chairman and
Moderator
Electric Power Research Institute

Dr. Paul R. Ehrlich
Biological Sciences, Stanford Univ.

Dr. John P. Holdren
Physics Department, U.C. Berkeley

Dr. Ronald D. Doctor, Commissioner
California State Energy Resources
Conservation and Development
Commission

Mr. Michael Peevey, Executive Director
California Council for Environmental
and Economic Balance

Mr. Lynn Wallis, Consultant
Health Physics
Nuclear Engineering Division,
General Electric Co.

This session is open to the public.

Richard E. Bellman Lecture

*Neural Anatomical Concepts of the
Cerebral Cortex*
Valentin Braitenberg, Max Planck
Institute, Tubingen, West Germany



Awards Banquet

Keynote Speaker

U.S. Congressman Hon. George E.
Brown, Jr. (D., Calif.)
Member Technology Assessment Board
of the U.S. Congress

The California Nuclear Initiative

**Public Panel Discussion
Golden Gateway Ballroom A
Tuesday, September 23
8:00 - 10:30 p.m.**

The Nuclear Initiative is likely to be placed on the ballot for California voters in June, 1976. It essentially asks the State of California to curtail the construction of nuclear power plants, to substantially reduce the output of existing reactors, and to revise its policy regarding damage insurance against nuclear accidents. It also provides a number of other measures that would encourage the development of alternative energy sources. The outcome of this initiative is likely to set a precedent for many other parts of the U.S. beyond California. A distinguished panel will illuminate the issues surrounding this controversial question and its impact on society.

The Franklin V. Taylor Award for the Outstanding Presentation at the 1974 SMC Conference goes to Mr. Sing King of the Ford Motor Company; The Outstanding Accomplishment Award this year goes to Dr. Ivan E. Sutherland of Rand Corporation for his Contributions to Computers and Interactive Computer Graphics.

Post Deadline Papers

One or two free sessions will be scheduled for Wednesday evening, September 24th, for the presentation of last minute results at the Conference. Submit abstracts and summaries by September 15th to Prof. Lawrence Stark, 226 Minor Hall, University of California, Berkeley, California 94720.

San Francisco Section Activities

Under the direction of Charlie Ostrofe, Chairman, and the rest of the elected Executive Committee, the San Francisco Section is off to a roaring start for the 1975-76 year. We plan to produce positive results in a wide variety of fields: PAC, Educational Activities, Student Activities, as well as present a well-rounded technical series of meetings.

In keeping with our policy of providing meaningful meetings at a convenient hour at a central location (with the exception of our first - an evening meeting) we plan to utilize the PG&E cafeteria meeting rooms at noontime for most of our meetings.

A tentative schedule is as follows:

September 17, 1975

Engrs' Club 7 PM
Carlos de Arrigunaga, Senior Economist, Bank of America - Inflation, Recession, Depression

October 21, 1975

Joint meeting, PES
Panel: "Young Engineers' Opinion of our Industry".

November 19, 1975

PG&E Noontime
H. Romanwitz, AVTEK Sys. Div.,
Aratron Electric - Solid State Speed
Controls As Applied to Cranes and
S

December 21, 1975

Meeting, IAS
Robert Anderson, Applied Materials
Corp. - Programmable Controllers

February 18, 1976

PG&E Noontime
Speaker from CSPE - Nat'l. Soc. Prof.
Engrs. Plans for Assistance to Young
Engineers

April 21, 1976

PG&E Noontime
PAC Speaker - PAC Program for
Improvement - IEEE 1976

June 12, 1976

Engrs' Club Evening
Annual Banquet

We are looking for talented volunteer help for our Educational Committee. If you want to assist - become involved with *your* IEEE - or know of someone who does, please call Charlie Ostrofe, (415) 542-7738.

Our Student Activities Chairman, Jim Rolka, plans to encourage engineering students and get them interested in IEEE. By attending student chapter meetings, inviting students to attend our Excom meetings, getting the student chapters active, and getting the students involved in Engineers' Week in February, Jim has quite a busy schedule ahead.

The Membership Committee, under the guidance of Wes Fenner, has goals of forming a working committee with geographic as well as industry diversity. In addition, Wes plans to contact members in arrears, encourage upgrading to senior member status, and provide membership information to interested people.

At present, the San Francisco Section consists of two Group/Societies - Industry Applications Society and the Power Engineering Society. We are looking at the possibility of establishing additional Group Chapter/Societies within the SF Section. The rank-order of our 1723 members in the various Group/Society with substantial membership is as follows:

- Power Engineering
- Computer
- Circuits & Systems
- Electron Devices
- Communications
- Microwave Theory & Techniques
- Engineering in Medicine & Biology
- Engineering Management
- Control Systems
- Aerospace & Electronic Systems
- Vehicular Technology

SF Section - "Economic Outlook For 1976"

The San Francisco Section will kick off the new year on September 17, with a program near to all of our hearts and pocketbooks. Members, families and friends are invited to hear about the economic outlook from one of the top economists in the area specializing in economic research and forecasting.

Dr. Carlos de Arrigunaga, Senior Economist of the Bank of America NN&SA will address us on the subject "Inflation - Where do we go from here?" As a senior economist to the Bank of America's San Francisco World Headquarters, Dr. Carlos de Arrigunaga specializes in economic research and forecasting. He has conducted various international country and industry studies, financial and economic research on the U.S. economy. A native of New Orleans, he is a 1965 graduate of Louisiana Tech University and holds a Master of Business Administration from that school as well as a Ph.D in economics from Texas A&M University in 1971.

We look forward to seeing everybody at the Beautiful San Francisco Engineers Club, top floor of Hong Kong Bank Building.

RELIABILITY/SOFTWARE

The Reliability Chapter, on September 24th, will hear James G. Corrigan, a

Product Assurance Specialist at Lockheed Missiles and Space Company, who will explore the applications of reliability theorems to computer programs, the characteristics of software, the types and causes of software errors, and the detection of software errors. He will discuss how algorithms are developed which allow prediction of probable errors in the final results.

Mr. Corrigan has been involved in development and application of quality assurance principles to computer programs for the last 3 years. He was supervisor of a group responsible for real-time telemetry processing at the Air Force Satellite Test Center in Sunnyvale. Mr. Corrigan received his B.S. in Physics from Tufts University.

Computer Society - Uniform Product Code Scanner and Their Role in the Supermarket Data Processing System Revolution

Under discussion at the Computer Societies meeting on September 17 will be Uniform Product Code Scanners and Their Role in the Supermarket Data Processing System Revolution. Machine readable symbols source marked on goods to be sold through supermarket outlets allow a productive checkout function to include not only receipt generation, but also, a number of electronic calculations and inventory withdrawal functions. This is made possible through very sophisticated electro-optic and digital technology. It requires the co-operations of the food packaging, the package conversion, the electronic and the supermarket industries.

Addressing the meeting will be Mr. Al Hildabrand, Marketing Manager for the Electronic Label Reading Division of Spectra Physics, Inc., Mountain View California. Mr. Hildabrand has a B.S. degree in Physics and an M.B.A. degree in Business, both from Stanford Univ.

IAS (SF Section) Tour of Electro Test, Inc.

The Industry Application Society will tour the Concord facility of Electro Test, Inc., on September 23, which is located at 1018 Shary Circle, across from the PG&E facilities on Detroit Avenue. The tour will feature mini demonstrations and lectures covering cable hypotential testing, cable fault location, circuit breaker testing, relay calibration, oil analysis, transformer test, motor vibration analysis and computerized fault and coordination program.

The tour is intended to provide the design engineer with on-line survey of the state-of-the-art and acceptance and maintenance test on low voltage and medium voltage switchgear.



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EMC FUNDS PAC

The 1974 IEEE Electromagnetic Compatibility International Symposium Committee headed by Chairman Victor Siegfried, has given \$300 to the SFBA Council of IEEE from proceeds of the Symposium, held July 16-18, 1974. The EMC group gave recognition to the Council for the services provided by the Council office in normal support of the Chapter activities. The money is to be applied to further the local Professional Activities (PAC) work.

In his letter of acknowledgement, SFBA Council Chairman, Ed Jackson cited the successful International Symposium by one of our smaller Chapters as an example of what can be accomplished by courage, dedication and good engineering team work. Congratulations and thanks to Vic and his entire Committee!

EMB - Electrical Stimulation of the Nervous System for the Management of Neurological Disorders

The EMB Section will hear a talk September 18, on how many neurological disorders can be alleviated by the use of miniaturized electronic circuits and systems and special surgical procedures. Dr. Curtis Gleason, electrophysiologist at Mount Zion Hospital and Medical

Center, will present a brief history of electrical stimulation followed by a review of simplified neuroanatomy and neurophysiology so that certain disorders and the effects of electrical stimulation can be understood more easily. The sensation of pain can be blocked by stimulation at various points along the pain pathway and electrical stimulation of different parts of the motor system can suppress or prevent epilepsy, reduce muscle spasticity, facilitate voluntary movements and re-establish purposeful movements. Dr. Gleason will also describe the procedure for placing electrodes into deep brain structures in people and the electronic systems that activate these electrodes.

Dr. Gleason received the M.S. degree in Electronic Engineering in 1958 and the Ph.D degree in Neurological Sciences in 1971, both from Stanford University. He has many years of experience in the design of electronic systems while working in electronic industries prior to his position at Mount Zion Hospital in 1971.

COUNCIL PAC

NEW CHAIRMEN IN THE BAY AREA:

Santa Clara Valley Section:

Jack Nawrocki

San Francisco Section:

Gerald Parsons

Oakland-East Bay Section:

Jay Wiedwald

EMPLOYMENT REFERRAL SERVICE set up as an experiment with temporary funding from USBA, is now trying to establish it on a permanent basis. Those who have already sent in self-addressed envelopes will be receiving further employment information.

PROFESSIONAL ACTIVITIES SURVEY RESULTS - As many of you know the PAC took a survey of the San Francisco section some time ago. Well, the results are finally in. Survey results are useful in three ways: They give the members a chance to express their feelings about the direction of the IEEE, provide figures to use in arguing for new directions and activities, and they give those of us who are working to improve the IEEE some aid in planning projects.

There were about 450 questionnaires returned. This represents approximately 5% of the old San Francisco section. More than half the returned questionnaires added comments, and in many of these comments the engineers expressed great dissatisfaction with their careers. There were complaints of being underpaid and overworked. A lot of the respondents felt that the IEEE is not doing anything to assist them. On the more positive side, there were a large number of respondents who were encouraged by the PAC activities. A

couple of members said that the only reason they renewed their membership was because of the PAC activities. From reading the comments, I believe that the PAC is acquiring a great deal of respect from the membership of the IEEE. Many of the members want to see the PAC take action in various activities. A large majority of the respondents expressed dissatisfaction with the IEEE electoral process for national office. They want to see some competition.

There will be a more detailed report on the survey in the October issue.

For information or comments on the Santa Clara Valley PAC column, call Michael Ward, at (408) 246-4300, Ext. 2316.

Oakland East Bay Section The Nation's Transportation Problem

At the Oakland-East Bay Section meeting September 9, members will hear Dr. Glenn C. Werth speak on the nation's energy research and development priorities, especially as applied to transportation.

Dr. Werth received his Ph.D from UCLA, and is now the Associate Director for Energy and Resource Planning of the LLL.

PES-ANS Joint Lawrence Livermore Laboratory Tour

The Power Engineering Society and the American Nuclear Society have made plans for a joint tour of the Lawrence Livermore Laboratory on September 20. The 2-hour tour will include the nuclear fusion power and large laser research facilities, including the 2XII-B experiment which recently achieved reactor level temperatures; the largest breakthrough to date in fusion research.

APS - Recent Advances in Particle Accelerators and High Energy Physics

The Antennas and Propagation Societies annual banquet on September 11, will feature Dr. James McEwan Paterson as guest speaker. Of special interest will be a discussion of the recently discovered PSI particles using the SLAC machine.

Dr. Paterson received his Ph.D from the University of Glasgow in Scotland and is now with the Stanford Linear Accelerator Center (SLAC).

**ANTENNAS &
PROPAGATION
SOCIETY
SEPT. 11**

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Page 11

**RECENT ADVANCES IN
PARTICLE ACCELERATORS
AND HIGH ENERGY PHYSICS.**
Dr. James McEwan Paterson,
SLAC. Spouses and guests are
invited.

SEPT. 11, Thursday, 8:45 PM, L'Ommie's, 4170 El Camino, Palo Alto.
Cocktails at 6:30 and dinner at 7:30 PM. Reservations: Tom Wang, Bldg.
44, SRI, Menlo Park, (415) 326-6200, Ext. 4641. Reservations payable
in advance: \$8.95 for Pepper Steak or \$6.25 for Mushroom Chicken.
Price includes tax and tip and wine.

**COMMUNICATIONS
SOCIETY/VEHICULAR
SEPT. 2**

**WINETASTING & STEAK
DINNER.** Spouses and guests
invited. JOINT MEETING.

SEPT. 2, Tuesday, Paul Masson's Mountain Winery. Wine tasting at
6:30 followed by dinner at 7:30 PM. Reservations: Jorgen Bistrup (415)
593-8491 by August 29th.

**COMPUTER
SOCIETY
SEPT. 17**

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**UNIFORM PRODUCT CODE
SCANNERS AND THEIR ROLE
IN THE SUPERMARKET DATA
PROCESSING SYSTEM REV-
OLUTION.** Al Hildabrand,
Spectra Physics, Inc.

SEPT. 17, Wednesday, 8:00 PM, University of Santa Clara, Science Hall,
Room 207. Dinner: 6:15 PM, Mariani's, Santa Clara. \$5.50/person.
Reservations: Council Office (415) 327-6622.

**ENGINEERING IN
MEDICINE &
BIOLOGY
SEPT. 18**

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**ELECTRICAL STIMULATION
OF THE NERVOUS SYSTEM
FOR THE MANAGEMENT OF
NEUROLOGICAL DISORDERS.**
Curtis Gleason, Ph.D., Mount
Zion Hospital, San Francisco.

SEPT. 18, Thursday, 8:00 PM, Stanford Medical Center, Room 112.
Dinner: 6:30 PM at Dinah's Shack, El Camino, Palo Alto. Reservations:
William Freund, (415) 497-1312.

**INDUSTRY
APPLICATION SOCIETY
SEPT. 23**

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Page 10

**ACCEPTANCE AND MAINTEN-
ANCE TEST OF ELECTRICAL
EQUIPMENT AND TOUR.**
Electro-Test Facility.

SEPT. 23, Tuesday, 7:00 PM, Electro-Test, Inc., 1018 Shary Circle,
Concord. Across from Contra Costa PG&E facility on Detroit Ave.
Reservations: Tenney Murray (415) 676-5471

**OAKLAND-EAST BAY
SECTION
SEPT. 9**

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Page 11

**THE NATION'S TRANSPORTA-
TION PROBLEM.** Dr. Glenn C.
Werth, Lawrence Livermore Lab.

SEPT. 9, Tuesday, 7:30 PM, Bldg. 50, Lawrence Berkeley Lab (East
end of Hearst Ave.). Dinner: 5:30 PM, Spenger's Fish Grotto, 1919- 4th
St., Berkeley. Reservations: Terry Rossow, (415) 447-1100, Ext. 3650.

**POWER ENGINEERING
SOCIETY/AMERICAN
NUCLEAR SOCIETY
SEPT. 20**

Story on
Page 11

**JOINT MEETING. TOUR OF
LAWRENCE LIVERMORE LAB-
ORATORY.** Tour is limited -
make reservations early.

SEPT. 20, Saturday, 9:30 AM, Main East Gate, Bldg. No. 310 (Main Pass
Office) Parking available in Sandia Corp. lot. Reservations: Miss Carol
Franke (415) 781-4211, Ext. 1442 prior to September 12 deadline.

**POWER ENGINEERING
SOCIETY
OCT. 8-DEC. 10**

**IEEE COURSE ON STANDBY
AND ALTERNATE POWER
SUPPLIES.** Speakers from
Industry

OCT. 8 - DEC. 10, Wednesdays, 5:45 PM, PG&E Bldg., 245 Market St.,
First floor, Conference Rooms A & B. Reservations: Emery Fabri, (415)
768-1640 or John Lee (415) 781-4211, Ext. 3428. See story for regis-
tration form.

**RELIABILITY
SEPT. 24**

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Page 10

SOFTWARE RELIABILITY.
James G. Corrigan, LMSC.

SEPT. 24, Wednesday, 8:00 PM, Physics Lecture Hall PH 101, Stanford
University. Cocktails and dinner at 6:00 PM at Stickney's, Embarcadero
& El Camino, Palo Alto. Reservations: IEEE Office (415) 327-6622 by
noon, September 24th.

**SAN FRANCISCO
SECTION
SEPT. 17**

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Page 10

**INFLATION - WHERE DO WE
GO FROM HERE?** Carlos de
Arrigunaga, Bank of America.

SEPT. 17, Wednesday, 7:30 PM, Engineers Club, 160 Sansome St., SF.
Dinner: 6:30 PM. \$7.00. Reservations: Olympia Byrne (415) 542-6133.

"1001 NIGHTS" THEME OF ALL-INDUSTRY RECEPTION in the beautiful, newly built grand ballroom of the St. Francis Hotel on
Tuesday evening, September 16, from 6:00 to 8:00 PM. Dancers in exotic costumes, musical groups and favors for all party-goers
are some of the highlights of this occasion. Cost per person is \$9.00, and includes the hors d'oeuvres (roast beef mini-sandwiches),
entertainment and three beverages. Tickets may be ordered from the Council Office (415) 327-6622 - or bought at the door.

1975 INTERNATIONAL CONFERENCE ON CYBERNETICS AND SOCIETY: September 23-25, 1975 at the Hyatt Regency Hotel,
San Francisco. Opening session on "Technology and Goals for the U.S.: 1975-2000", will have the Hon. George E. Brown, Jr.
as keynote speaker. One special evening session will be devoted to a public panel discussion on the California Nuclear Initiative.
For additional information regarding the program and registration, write to L. Stephen Coles, Stanford Research Institute, 333 Ravens-
wood Ave., Menlo Park, CA 94025.

SPECIAL WESCON TICKETS

*Each Section has WESCON
pre-registration tickets avail-
able for their members at
\$1.00 each.*

Santa Clara Valley: Contact
Jean Helmke at Council office
(415) 327-6622.

*All sales limited to one to each
member.*

Oakland-East Bay: at their
September meeting, or call
Dale Johnson at (415) 835-
8500, Ext. 311.

San Francisco: at their Sep-
tember meeting, or send \$1.00
to Miss Jaye Choy, Pacific
Telephone, Room 900, 611
Folsom St., SF 94107.