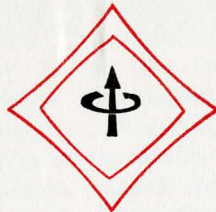


APRIL/1972

CHICAGO
SECTION

IEEE

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SATURDAY, APRIL 8, 1972

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Got Your Tickets Yet?

The IEEE Recognition Dinner is Saturday, April 8, 1972. Have you got your tickets yet? Cost is only \$11 per person—for hors d'oeuvres, dinner, dancing, and a floor show. Featured in the floor show will be the Harmonicats, the Dansations, Burke & Diamond, and the Nancy Faust Trio. Music will be supplied by Dick Carlton's Orchestra and the entertainment will be m.c.'d by Sonny Mars.

All this begins with cocktails at 6:00 p.m. in the Red Laquer Room at the Palmer House. Tickets are going fast, so send your check in NOW to Don Smithana, Twist Co., 301 Higgins Road, Elk Grove Village, Ill. 60007.

Recognition this year goes to Professor S. Louis Hakimi, Northwestern University, "for contributions in applications of graph theory to circuit analysis, analysis and design of communications networks, and coding theory". A leading student from each of the student chapters in the Chicago area will also be honored.

EMC At The Crossroads

... is the theme of the 1972 International Symposium on EMC to be held at Arlington Park Towers, Arlington Heights, on July 18-20, 1972.

The symposium promises three fully packed days with 13 sessions covering many, many aspects of EMC. These range from biological effects and cardiac pacemaker susceptibility through policy discussion on spectrum management by the Office of Telecommunications Policy (OTP) of the Department of Commerce and the Federal Communications Commission. The program will also cover EMC Test Specifications, instrumentation, shielding, grounding, antennas, and many other topics pertinent to all interested in EMC.

A special highlight will be the exhibit of the FCC Monitoring van. This Mobile Spectrum Monitoring Unit is a fully automated electromagnetic data acquisition system which was designed specifically for evaluating spectrum utilization in the land mobile communications bands. For further information on the 1972 EMC Symposium, call Jim Beall, 982-3055.

Bioengineering in Chicago

The next meeting in the Bioengineering in Chicago series will be on Wednesday, April 19 at the Hektoen Institute, 627 S. Wood St., Chicago. Sponsored by the Engineering in Medicine and Biology Group, members and guests are invited to hear members of the Hektoen Institute for Medical Research and Cook County Hospital discuss their bioengineering programs.

Specific topics to be covered will include: cardiac contractility in the primate; new surgical materials; diaphragmatic control dynamics; a statewide trauma registry; and radar kymography.

Following the discussions, there will be laboratory tours and demonstrations. The evening will conclude with coffee and a discussion period.

Program begins at 7:30 p.m. in the auditorium on the first floor. Free parking in the lot south of 707 S. Wood St.

Chicago's Computer Assisted Instruction System

The April 6 meeting of the IEEE Communications Society will feature a panel on the Chicago Board of Education's Computer Assisted Instruction System (CAIS). Speakers will include J. Teslik, GTE Lenkurt and, from the Board of Education: H. Strasburg, Assistant Superintendent of Schools; L. Rosenthal, Director of Computer Services; and J. Carr, System Manager.

Buffet dinner (\$5.00) and meeting will be at Illinois Bell Telephone Company, 225 W. Randolph Street, Chicago. Dinner will be served at 6:30 p.m.; meeting, 7:30 p.m. Reservations are necessary. Call George Mack 727-3339 for reservations.

Industry Applications Society

The Industry and applications Group of IEEE has joined the ranks of the IEEE Societies. It is now, officially the IEEE Industry Applications Society. The annual meeting of the new society will be held at the Marriott Motor Hotel in Philadelphia, Pa., on October 9-12, 1972.

Sears Tower April Fox Valley Topic

Robert W. Davey, assistant project manager and manager of space planning, Sears, Roebuck and Co., will present a saga of the new Sears Tower, up to the operation as it stands today. He will speak to the April 5 meeting of the Fox Valley Subsection at Nordic Hills Country Club, Route 53, North of Route 64. Dinner is at 7:00 p.m., and the program begins at 8:00 p.m.

Davey's talk will focus on some of the more interesting problems in the planning of the world's tallest building. His remarks will include utility planning, electric substations, and other facets of this all electric building.

Davey joined Sears in 1945 as a test engineer in the merchandise development and testing laboratory in Chicago. In 1947, he joined the buying organization where he held various buying positions including foreign buying coordinator of refrigeration equipment.

From 1960 until 1963, he was assistant manager of merchandise comparison. In 1963, he was on special assignment in Madrid, Spain for Sears Roebuck de Espana.

From 1964 until 1969, he was assistant to the vice president of merchandise administration.

In 1969 Davey was named assistant project manager and manager of space planning for the Sears Tower Project. He holds a B.A. from Hastings College and a B.S. in mechanical engineering from the University of Nebraska.

For further data, call 263-3776.

APRIL 11, 1972

Compact Range-Near Field Testing

Gerald Hickman, Scientific Atlanta Company, will discuss "Compact Range-Near Field Testing" for the joint meetings of the Antenna and Propagation and Microwave Theory and Techniques Groups.

Dinner and meeting will be held April 11, 1972, at Menard's Black Steer Restaurant, 6446 W. North Ave., Chicago, Ill. Social hour, 5:30 p.m.; dinner, 6:30 p.m.; meeting, 7:30 p.m. For reservations, call Lillian Whitney, Andrew Corporation, 349-3300, by April 10, 1972.

1972 MIDWEST ACOUSTICS CONFERENCE

Saturday, April 15, 1972

National College of Education, Evanston

The 1972 Midwest Acoustics Conference will be held on Saturday, April 15, 1972, at the National College of Education, 2840 N. Sheridan, Evanston, Ill. Co-sponsored by IEEE, CAAG, AES, and ASA, the conference will present the first comprehensive technical symposium and demonstration of four-channel reproduction to be given in the United States. Registration fee is \$3.00. Lunch will not be provided but can be obtained nearby, either in Evanston or in Wilmette.

TECHNICAL PROGRAM

9:00 a.m. Welcome Address

Dayton Grafman, vice-president for admission, National College of Education

9:15 a.m. Introduction

Daniel Queen, Daniel Queen Associates, Chicago, Ill. The evolution of four channel reproduction and how it relates to the responsibilities of engineering professionals to the needs of both the recording industry and the public.

9:45 a.m. The Physical Nature of Ambience

Chairman: Marvin Camras, Senior Scientific Advisor, IIT Research Institute.

Speakers: Marvin Camras and John Volkman, consultant, technical staff, RCA Laboratories

The special and temporal characteristics of concert halls, studios, etc., that create a desirable sound field. The importance of each characteristic for retaining such ambience.

11:45 Reproduction in Rooms: Physical and Psychoacoustical Considerations

Chairman: Bruno Staffen, applied acoustics consultant, Consumer Products Div., Motorola, Inc.

Speakers: Roy Allison, vice president, Acoustic Research, Inc. and George Augsburger, president, Perception, Inc.

The characteristics of small listening rooms and the problems of simulating an ambient sound field or special effects for the listener.

12 Noon LUNCH (off-campus)

1:30 p.m. Recording for Ambience and Effect

Chairman: James Cunningham, vice president, Sound Market Recording Corp.

Speakers: John Eargle, director, Commercial Sound Products, Altec Div., LTV; Bill Putnam, president, United Recording Electronics Industries and James Cunningham

The interface between hall and listening room lies in the master recording process. New approaches to microphone placement and signal processing are needed to make this interface practical.

3:15 p.m. Recorder Media-Disc multichannel reproduction

Chairman: Bernhard W. Jakobs, chief development engineer, Shure Bros., Inc.

Speakers: "The RCA Carrier Discrete System", W. Rex Isom, Chief engineer, RCA Record Division; "Optimal Multichannel Matrix Systems", Duane Cooper, associate professor of electrical engineering and physics, University of Illinois; "The Columbia SQ Matrix Format", Ben Bauer, vice president, CBS Laboratories; "Methods for Playback of Matrixed Recording", Howard Durbin, senior vice president and technical director, Electro-Voice, Inc.

DEMONSTRATIONS

Producers of 4-channel equipment will each set up demonstrations in separate rooms near the auditorium. To provide a basis for comparison, the Conference Committee has prepared a demonstration tape containing a large variety of different sounds and recording conditions. Those demonstrators who are showing matrixing systems particularly will be asked to reproduce this tape in their recording medium.

From The Chairman:

SCANFAX is late again! You've probably heard that many times in the past few months. We've heard it too! And were trying to do something about it, but its going to require your help. There are two reasons that SCANFAX is late, and you can help with each.

First we must have the meeting notice information. As this issue was being put together, only one group had their information in to us. We had to poll all of the other groups to see if they had any material for us. (We are currently studying a change in format for SCANFAX which should cut several days out of the preparation process, speeding delivery to you. But we have to have the material in our hands in the first place.) Future issues will not be delayed to wait for late information. All material must be in by the 5th of the preceding month.

Second we must keep the post office moving the mail. SCANFAX is delivered by second class mail. First class mailing for one issue costs \$400; second class is \$35. One look at our treasury would show why second class is desirable. Second class mail is supposed to be treated the same as first class. The February issue was delivered to the post office on February 11th (about two weeks late—see previous paragraph), and many members received their copy on February 15th and 16th. Some received their copy as late as February 23rd, and most of these were in the suburbs.

Those who received the February issue that late would help us out by calling your local postmaster and letting him know that this publication is being delayed.

We will try our best to get SCANFAX to you on time, but it will take YOUR help.

Bill Kusner

NEC/72

The 1972 National Electronics Conference (NEC/72) will be presented at the O'Hare Regency Hyatt House on October 9, 10 and 11. The 28th annual NEC Conference format has been modified considerably, but the technical program and exhibits will provide a professional growth in engineering opportunity to the engineers who will attend.

1972 IEEE Industrial And Commercial Power Systems Technical Conference

Milwaukee, Wis. will be host to the 1972 Industrial and Commercial Power Systems Technical Conference to be held May 1-4 at the Pfister Hotel. Five technical sessions are planned, including a special panel discussion of ground fault protection requirements for motor branch circuits. A tutorial session on electrical transients will be given in three papers, and a separate session will be devoted to switchgear and switchyard maintenance.

Papers will be presented on the electrical distribution system selected for New York City's World Trade Center and on testing of cable systems for improvement of reliability. Other topics include electrical grounding, ground fault testing, electrical control enclosures, operation centers, and utility metering of commercial buildings.

Guest speaker for the conference luncheon on May 2 is Dr. Richard Scott Brannon, Special Assistant to the Secretary of Health, Education, and Welfare, who will speak on the scope and likely future effects of HEW programs and current legislation pending before the Congress.

As a conference sidelight, inspection trips are scheduled to the Allen-Bradley high power test laboratory and to the Allis-Chalmers assembly area for large electric motors and generators. A variety of social events and ladies' programs is also planned.

The conference is sponsored by the Industry Applications Society of the IEEE, and the Milwaukee Section of IEEE. Mr. Harvey E. Meisel, P.E., of Dolan and Dustin, Inc., Milwaukee, is general chairman. Advance registration is \$27.00 for IEEE members and \$32.00 for non-members. Ladies and student members will be admitted without charge.

Fellow Awards

If you have any nominations for IEEE Fellow, contact a member of the Awards Committee as soon as possible because April 30, 1972 is the deadline date for the Section to submit completed nominations. Several new requirements this year make it imperative that you contact

the committee as soon as possible.

Call any of the following: Chairman, H. Earl Vaughan, Bell Telephone Laboratories, 682-3242; John Bell, Zenith Radio Corp., 745-2551; John Mikos, consultant, 432-7158; or John J. J. Staunton, Coleman Instruments, 261-3214.

Coming Events

The May Section meeting will be May 23 at the Arlington Park Towers Hotel. This dinner meeting is the Symposium Banquet of the 1972 IEEE International Microwave Symposium. William Magruder, Special Consultant to the President, White House, Washington, D.C., will speak on "Technology and National Goals." Reservations must be made before noon, May 22. Cost of dinner is \$8.00; no dinner tickets can be purchased at the door without a reservation and all reservations must be honored. No-shows will be billed. Call R. M. Knox, 225-9630, for additional information or see May issue of SCANFAX.

Fox Valley Subsection To See Fool's Paradise

Fox Valley Subsection's final meeting of the season will feature early dinner and a play at the Shady Lane Theatre, Marengo, Sunday, May 7. As in past years the ladies are invited to this final session. Dinner begins at 2:30 p.m.

The play, "Fool's Paradise", featuring a New York cast, will run from 4:30 to 7 p.m.

To request tickets, write to Mike Musko, 6009 Blodgett, Downers Grove, Ill., 60515.

Election in May

Elections of Chicago Section IEEE officers and members of the Executive meeting will be held in May. Be sure to attend the May meeting so you can cast your ballot for those who will represent us in the next year.

The Nominating Committee, appointed by the Section chairman, will present a slate of officers. However, other nominations may be made from the floor, on presentation of a petition carrying the requisite number of signatures of IEEE members. Further information on this procedure may be obtained from the Section secretary.

1972 Microwave Symposium

The 1972 IEEE-GMTT International Microwave Symposium will be held May 22-24, 1972, at the Arlington Park Towers Hotel in Arlington Heights. The theme of the Symposium, "Microwave International", expresses the fact that the microwave art has no national boundaries. This fact is underscored by the distribution of the technical papers. Of those papers obtained from contributing authors, 39 percent are from foreign nations. The following nations are represented: Australia, Canada, France, Germany, Great Britain, Israel, Italy, Japan, Netherlands, Sweden, and the United States.

Following the international theme, a panel presentation will be offered on Monday evening, 22 May, at 7:30, "Microwave State-of-the-Art International". Moderated

by Ted Saad, Editor-in-Chief of the *Microwave Journal*, this session will feature reports by authorities from various nations on the latest developments in microwave technology. Attendees will be free to question the panelists or to describe results of their own activities.

The 1972 Microwave Symposium will inaugurate exhibits to supplement the technical program. This new dimension to the Symposium will make possible an interaction between engineers involved in design, production and marketing, and those interested in the latest commercial state-of-the-art components. Since the ultimate fruition of the microwave research and development reported in Symposium papers is products for the military and commercial markets of the world, it is appropriate that the

Symposium also serve as a vehicle to bring these latest products to the attention of the attending scientists and engineers. The exhibits will be located in the lower level immediately below the technical sessions. Exhibit hours will be: Monday, May 22, 12-6 p.m.; Tuesday, May 23, 10-6 p.m., and Wednesday, May 24, 10-5 p.m.

Applications for exhibit space will be received until May 15, by Clarence Arnow, Micro-Now Instrument Company, 6104 N. Pulaski, Chicago, Ill. 60646; phone, (312) 478-1151.

A permanent record of the Symposium is offered at the time of registration, in the form of a digest. Each author is allowed up to three 8½ x 11 inch pages for his manuscript.

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RECOGNITION DINNER

SATURDAY, APRIL 8, 1972

Join your associates for a great evening at the Palmer House, Red Laquer Room. Past Dinners have been a roaring success, so don't miss this one.

Recognition, this year, goes to Professor S. L. Hakimi, Northwestern University, "for contributions in applications of graph theory to circuit analysis, analysis and design of communications networks, and coding theory."

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PALMER HOUSE — RED LAQUER ROOM

(Non-IEEE members are also invited)