

SEPTEMBER/1970

7/70

CHICAGO
SECTION

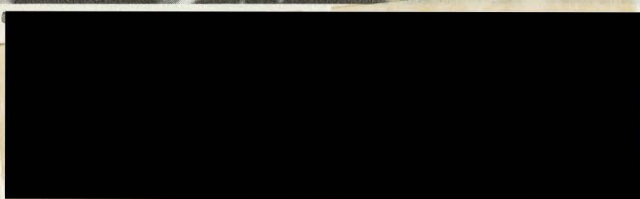
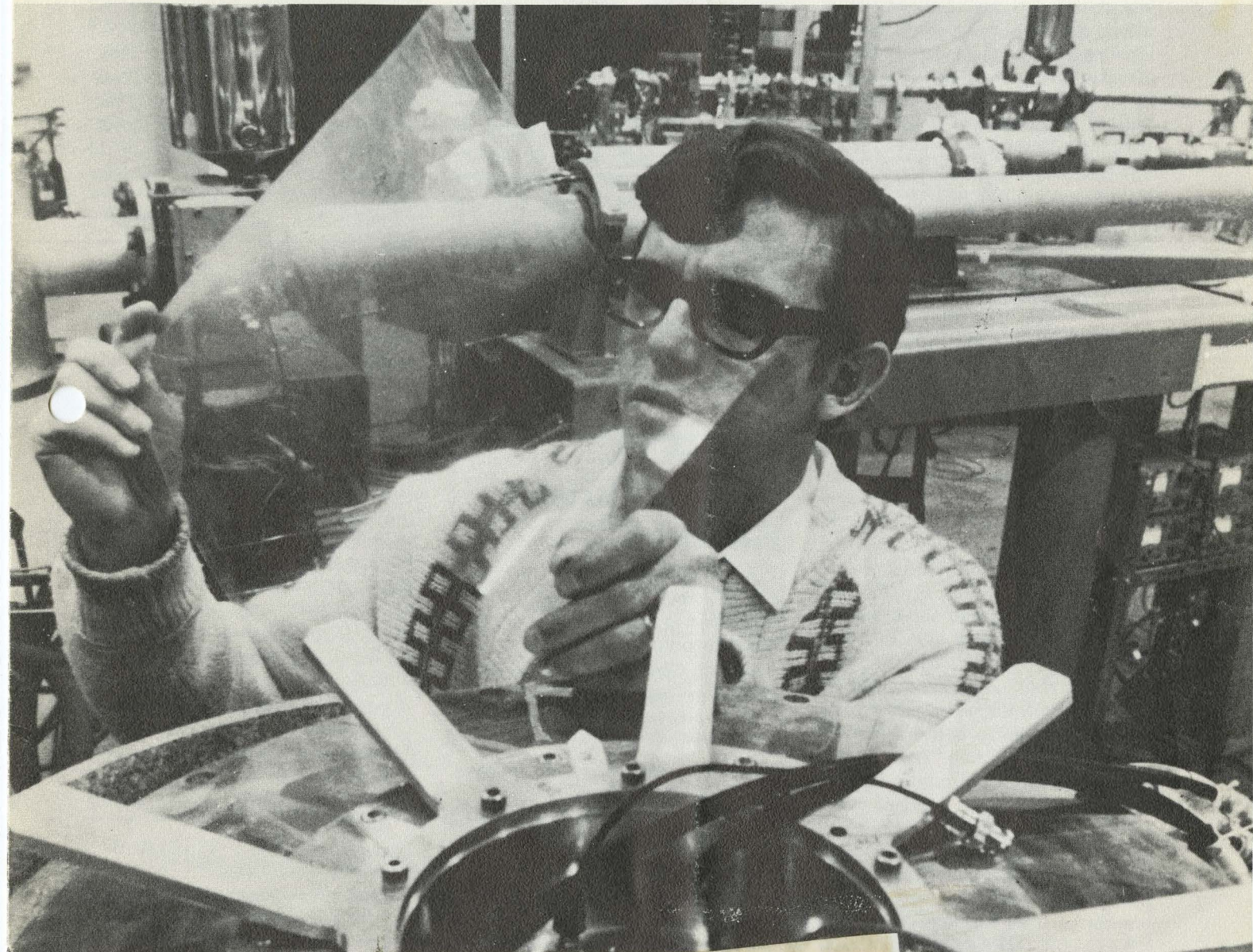
IEEE

INSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS



Scanfax

6RP1-16d
6RP2-8d



Postmaster: Second class postage paid at Chicago, Ill. Please dispatch within 24 hours of receipt per 333.321 Postal Manual.

SCANFAX, INC. • 2627 Thayer Ave. • Evanston, Ill. 60201

1970 Chairman's Message

Are you really relevant? Have you thought about it? This is a dynamic, changing world we are living in today and most institutions are changing or reorganizing to become more involved and more adaptable to the needs of their members, and thus the needs of society as a whole. We see our churches, colleges and other civic organizations all examining the ways in which they can become more involved in today's problems and better serve their membership.

The Chicago Section, too, is changing and becoming more pertinent with every day that passes. Many dynamic changes are taking place and many exciting issues are being examined at our meetings. The Chicago Section is changing, but what about you? Are you relevant, are you changing? Or are you still sitting on the sidelines being passed by?

What is the Chicago Section doing to stay germane in our fast moving society? The Section is continuing its program sub-dividing geographically to better serve you and more importantly to afford you the opportunity of being more active in your IEEE. Last year saw the maturing of the Calumet subsection to full status. We also saw the continued growth of the dynamic Fox Valley subsection and this year we start out with the brand new Northwest subsection to better serve our members in that area. The Chicago Section is further changing the format of the section meeting to a much broader social, special-event type of meeting. This year many of the section meetings will be held in conjunction with the very popular events such as the Treasure Hunt, Showtime, NEC, Spring Party, Spring Conference and others. This format should allow you and your wife and friends to meet and enjoy yourselves in a social atmosphere. This new plan then leaves the more formal technical programs to the subsections and groups.

But what about you; are you

really relevant? Where were you when the Power Group presented the panel on air pollution in Chicago. What about the time when the Spring Conference on Broadcast and Television Receivers had a panel discussion on the dangers of x-ray radiation from television sets? Then there was the night the Bio-medical group presented the facts on artificial heart transplantation. And did you make the Vehicular Communications meeting on controlling crime in the streets? What of air traffic congestion? Space exploration? Did you make these? Don't let them pass you by again this year.

Come out and join in the excitement of the '70s. We don't even require that you grow a beard or wear sandals. We promise to try to keep up the high level of excitement created by our energetic past chairman, George Spisak and his dedicated associates last year. For their fine activities and direction we give them a resounding thanks.

See you at the Treasure Hunt.

*Bob Nunamaker
Chairman
Chicago Section, IEEE*

MARCH 13, 1970

The Calumet Section

As of March 13, 1970, the Calumet Subsection achieved Section status and is now known as the Calumet Section of the IEEE.

Taking office July 1, 1970 were:
Chairman: Mr. Dominic A. Aversa, Northern Indiana Public Service Co.

Secretary: Mr. Brice E. Gilman, American Oil Co.

Treasurer: Mr. William R. Wilson, Inland Steel Co.

Executive Committee: Glenn R. Griffith, Atlantic Richfield Co.; William H. McCarty, I.T.E. Imperial Corp.; William J. Tunny, Sargent & Lundy Engrs.; Fred Wittig, Jr., Pullman Standard R & D. Mr. Charles A. Bales, U.S. Steel Corp., and Mr. John P. Glaeser, St. Arnaud Elec. Co., as past chairmen are automatically members of the Executive Committee.

Victor Comptometer Names Phelan Research Head

Roy L. Phelan has been appointed vice president of the Research Center, Victor Comptometer Corporation. Phelan, comes to Victor from



PHELAN

Burroughs Corporation where he was manager of advanced planning for the Business Machines Group and Engineering Manager of the Plymouth division since 1964. As Vice President of the Victor Research Center, he will coordinate developmental activities of all business machines, cash register and communication projects. Victor currently has under development a line of electronic calculators utilizing metal-oxide-semi-conductor (MOS) circuitry.

Phelan is an electrical engineering graduate of Drexel Institute of Technology, class of 1949.

Calumet Section 1970-71 Calendar

This year the Calumet Section will present seven programs with the common theme, "Opinions on the Future." Details will be in future SCANFAX issues. For further information, contact Floyd Montgomery, (219) 932-5200.

October 12, 1970: H. P. Bruncke, Director of IEEE Region #4 and William McCarty, I.T.E. Imperial Corporation will be the speakers.

November 9, 1970: Field trip to G & W Electric.

December 7, 1970: Future Safety Standards.

January 11, 1971: "FLUIDICS"—Emphasis on Control.

February 8, 1971: A NIPSCO executive will speak on how electrical power will be supplied in the Northern Indiana area in the future.

March 8, 1971: Annual meeting. Future State of the Art-Electronics. Speaker from Bell Telephone on Bell Labs.

April 23, 1971: Ladies Night—Drury Lane Theatre.

OCTOBER 5-8, 1970

Fifth Annual Meeting IEEE Industry and General Applications Group

The Fifth Annual Meeting of The IEEE Industry and General Applications Group will be held in Chicago at the La Salle Hotel, October 5-8, 1970.

The IGA is composed of twenty five technical committees, most of which will be sponsoring sessions at this meeting. The technical sessions will offer engineers concerned with the design, application and use of electrical and electronic equipment an opportunity to "fight obsolescence". The papers to be presented have been selected to appeal to both power and electronics engineers.

In addition to the technical sessions a number of outstanding field trips are planned, as well as a full calendar of events for members' wives.

For advance information contact:

*J. E. Levett,
Armour & Company
Box 9222
Chicago, Illinois 60690
943-3100*

Good-by and good luck, Dave . . .

David W. Gilman, IEEE Chicago Section Past Chairman, leaves Commonwealth Edison Company as of Sept. 1, 1970. He has accepted a position with San Diego Gas and Electric Co., San Diego, Calif. All our good wishes and many thanks for his fine work on behalf of the Chicago Section go with Dave.

Edward L. Bradley Elected V.P. — Purchasing

Edward L. Bradley has been elected vice president—purchasing of Pioneer Service & Engineering Co., a Chicago-based consulting engineering firm specializing in engineering and design activities for utilities, municipalities and general industry. In his new position, Mr. Bradley will be responsible for the administration of all aspects of the procurement functions required to supply the major equipment required by Pioneer's clients. He will continue to serve on the board of directors of the 700 member firm.



BRADLEY

Prior to his new position, Mr. Bradley was manager of the purchasing department of Pioneer. He joined Pioneer in 1956 as a purchasing engineer and was promoted to purchasing manager in 1969.

THE COVER

Clear Results—W. M. Gibson of Bell Laboratories examines the detector used to perform the shortest direct time measurement ever made. The clear plastic sheet recorded impacts of tiny particles—called fission fragments—given off by disintegrating neptunium nuclei. The sheet was placed near a crystal (located in radial housing, foreground), in which the short-lived neptunium nuclei were formed. Fragment impacts were individually counted during microscopic examination on the sheet.

SEPTEMBER 23, 1970

Power Group To Tour Nuclear Station

The Power Group, Chicago Section, has scheduled a tour of Dresden Nuclear Generating Station located on a 953 acre site near Morris, Illinois.

Dresden Unit I was the first privately-financed, full scale nuclear power plant in the world. Owned and operated by the Commonwealth Edison Company, the station began operation in 1960 with a capacity of 200,000 kilowatts.

Two additional units with an ultimate capacity of 809,000 kilowatts each were planned for this year. Both are designed for boiling water reactors as is Dresden I.

Unit II is presently being tested at 75% full power. Completion of Unit III is scheduled for mid-September.

Emphasis of the tour will be on Dresden III—its construction problems, start-up problems and features of operation.

The tour will be Wednesday, September 23, 1970. Reservations by September 21 to:

*Mr. Gerald Ernst
General Electric Company
840 South Canal Street
Chicago, Illinois 60680
Tel: 663-4151*

Visitors may carry cameras and will be furnished hard hats at the station. The program committee suggests that participants eat en-route as there are only vending machines available at the site.

Dresden is located approximately 60 miles from Chicago's loop.

SCANFAX BOARD OF DIRECTORS

William Schwartzburg, President
Schmidt, Garden & Erikson Co.
DE 2-5070

John E. McManus, Treasurer
IIT Research Institute
225-9630, ext. 4021

Ruth L. Oldfield, Secretary & Executive Editor
Gardner, Jones, & Cowell
782-5000

Patricia Ibbs, Office Manager
2627 Thayer Ave., Evanston, Ill. 60201
(312) 864-5723

Electronic Secretary
(312) 764-5000

scanfax

September 1970, Volume 24, Number 1. SCANFAX is published monthly except July and August by Scanfax, Inc., Chicago, Illinois, for the information of the members of the Chicago Section, Institute of Electrical and Electronics Engineers. Scanfax, Inc., is a not-for-profit organization with business office at 2627 Thayer Ave., Evanston, Ill. 60201; telephone number 312, 864-5723. Subscription rate for IEEE members, collected in dues, \$1.50; for others, \$3.00 per year. Second-class postage paid at Chicago, Illinois.

CHICAGO SECTION IEEE OFFICERS

Robert J. Nunamaker, Chairman
Motorola, Inc., 772-6500

B. C. Biega, Vice Chairman
Sola Electric Company, 439-2800

Jerry F. Pospisil, Secretary
Bell & Howell Schools - DeVry, 545-2700

William J. Kusner, Treasurer
Illinois Bell Telephone 727-1972

IEEE calendar

Sept. 2: Fox Valley Subsection

Talk and tour at the General Electric Midwest Fuel Recovery Plant, starting at 6:30. Call. 263-3776 for reservations. Box lunches will be available at 6 p.m.

Sept. 15: Microwave Theory & Techniques

"The State of the Art of Microwave Integrated Circuits," by Dr. Harold Sobel. Social hour, 5:30 p.m.; dinner, 6:30 p.m.; meeting, 7:30 p.m. Menard's Black Steer Restaurant, 6446 W. North Ave., Chicago. For reservations call Gary Stanton, 349-3300 by Sept. 13.

Sept. 17: ComTech

Annual business meeting. Social hour, 6:00 p.m.; dinner, 6:30 p.m.; meeting after dinner. Order from menu. Menard's Black Steer Restaurant, 6446 W. North Ave., Chicago. Reservations by Sept. 15 to George Mack, 727-3339.

Sept. 22: Engineering Management

"Top Management Looks at New Product Development." Social hour, 6:00 p.m.; dinner, 6:30 p.m.; meeting, 7:30 p.m. at Nielsen's Restaurant, 6475 Mannheim Rd., Rosemont, Ill. For reservations, call Mina Mereshon, 922-9302.

Sept. 23: Power

Tour of Dresden Nuclear Generating Station, Morris, Ill. Reservations by Sept. 21 to Gerald Ernst, 663-4151.

Oct. 3: IEEE Treasure Hunt

Dinner at Henrici's O'Hare Inn following the hunt. Tickets \$18 per couple, reservations accepted for full car (3 couples) only. Send coupon on page 8 with check.

Oct. 5-8: Industry & General Applications

5th Annual Meeting at the La Salle Hotel. For advance information contact J. Levett, 943-3100.

Oct. 12: Calumet Section

H. P. Bruncke, Dir. of IEEE Region #4 and William McCarty, I.T.E. Imperial Corp. will be the speakers. For further information contact Floyd Montgomery, (219) 932-5200.

Oct. 22: ComTech

Panel Discussion on Space Communications. Further information in October SCANFAX.

Oct. 31: Northwest Subsection

"Holography," by R. Stenson, Illinois Bell Telephone Co. Social hour, 6:00 p.m.; dinner, 7:00 p.m.; meeting, 8:00. Old Orchard Country Club, 700 W. Rand, Mt. Prospect, Ill. Call Bill Kusner, 727-1972 for dinner reservations.

SEPTEMBER 2, 1970

Fox Valley Subsection

On September 2 at 6:30 p.m. the IEEE Fox Valley Subsection will start the 1970-71 season with an informative talk and tour of the General Electric Midwest Fuel Recovery Plant located near the Commonwealth Edison Dresden site.

Ray Lambert, managing engineer for the facility, will describe the methods by which spent nuclear reactor fuel is received, handled, disassembled, chemically separated and recombined into a form where by it can be used to make nuclear fuel.

Following the talk, there will be a conducted tour of the multi-million dollar facility, which is in the final phase of construction. The tour will give the members an opportunity to observe some of the many precautions which are taken to insure that the radioactive fuel is safely handled.

Please call 263-3776 for reservations for the tour. Box lunches will be available at 6 p.m.

SEPTEMBER 17, 1970

COM TECH Business Meeting

All members of ComTech are urged to be present at the first meeting, on Sept. 17, at the Black Steer Restaurant, 6446 W. North Ave., Chicago. Social hour is at 6:00 p.m., dinner from the menu at 6:30 p.m., and the meeting will start after dinner. For reservations contact George Mack, 727-3339, by 5:00 p.m. Sept. 15.

SEPTEMBER 22, 1970

New Product Development

The Engineering Management Group will hold its first meeting of the 1970-71 season on September 22, 1970, at Nielsen's Restaurant, 6475 Mannheim Road, Rosemont, Ill. Members and guests will hear how "Top Management Looks at New Product Development." The speaker will be the president of a leading firm. Social hour, 6:00 p.m.; dinner, 6:30 p.m.; meeting, 7:30 p.m. For reservations, call Mina Mereshon, Allen-Bradley, 922-9302.

Northwest Subsection Program

The newly organized Northwest Subsection takes pleasure in inviting all engineers to an outstanding series of programs to be held in the northwest environs of Chicago-land. The selection of program material mixes and matches the wide variety of engineering work carried out by IEEE members in the area.

CALENDAR OF EVENTS

October 31, 1970: Subject: Holography. Speaker: R. Stenson, Illinois Bell Telephone Co. Location: Old Orchard Country Club, 700 West Rand, Mt. Prospect.

November 18, 1970: Subject: Medical Electronics. Speaker: Dr. Joel Stern of Lutheran General Hosp. Location: Lutheran General Hospital, Park Ridge, Illinois.

January 20, 1971: Small Computers in the 70's.

March 17, 1971: Social Event, Ladies Nite.

April 21, 1971: Lightning and Transients.

May 19, 1971: Electrical vehicles today, with a look at tomorrow.

October's meeting on Holography will feature a demonstration using laser light and special equipment designed for the Illinois Bell Telephone Co. This equipment will project a three-dimensional image, or holograms.

A cocktail hour at 6:00 p.m. will precede the dinner at 7:00 p.m. For dinner reservations, call Bill Kusner at 727-1972. The program will begin at 8:00 p.m.

SUPPORT

SCANFAX

ADVERTISERS

Chicago Section Officers and Chairmen-1970-1971

This is your Section Directory for 1970-71. Save it to refer to whenever you need to contact an officer or chairman. The Directory is as complete as we could make it this early in the season, but if any groups have

additions or corrections to the directory these should be sent to the secretary of the Section, Jerry F. Pospisil, Bell & Howell Schools, De Vry, 4141 W. Belmont Avenue, Chicago, Illinois 60641; 545-2700.

OFFICERS

Chairman: Robert J. Nunamaker, Motorola, Inc., 4501 W. Augusta Blvd., Chicago, Ill. 60651; 772-6500.

Vice-Chairman: B. C. (Bill) Biega, Sola Electric Co., 1717 Busse Rd., Elk Grove Village, Ill. 60007; 439-2800.

Secretary: Jerry F. Pospisil, Bell & Howell Schools—De Vry, 4141 W. Belmont Ave., Chicago, Ill. 60641; 545-2700.

Treasurer: William J. Kusner, Illinois Bell Telephone Co., 225 W. Randolph St., Headquarters 10-B, Chicago, Ill. 60606; 727-1972.

EXECUTIVE COMMITTEE

The Executive Committee consists of the four elected Section officers, the elected chairmen of the Northwest and the Fox Valley Subsections, the previous year's section chairman, and seven additional elected members (listed first below).

Richard A. Bulley, Commonwealth Edison Co., 3500 N. California Ave., Chicago, Ill. 60618; 267-8131.

Joseph R. Ganzel, Motorola, Inc., 4501 West Augusta Blvd., Chicago, Ill. 60651; 772-6500.

Richard B. Keener, Argonne National Laboratory, 9700 S. Cass Ave., Argonne, Ill. 60439; 739-7711.

Benjamin F. Lathan, Malcom X Community College, 1745 W. Harrison St., Chicago, Ill. 60612; 243-3575.

Matthew J. Remec, Bell Telephone Laboratory, Naperville, Ill. 60540; 682-2299.

William E. Schwartzburg, Schmidt, Garden & Erikson Co., 104 S. Michigan Ave., Chicago, Ill. 60603; 332-5070.

Henry A. Setton, University of Illinois, Office of the Dean of Engineering, Circle Campus, P.O. Box 4348, Chicago, Ill. 60680; 663-2401.

Northwest Subsection: William J. Kusner, Illinois Bell Telephone Co., 225 W. Randolph St., Headquarters 10-B, Chicago, Ill. 60606; 727-1972.

Fox Valley Chairman: Daniel J. Veith, Argonne National Laboratory, 9700 S. Cass Ave., Argonne, Ill. 60439; 739-7711.

Section Officers: Robert J. Nunamaker, B. C. Biega, Jerry F. Pospisil, William J. Kusner.

Past Chairman: George C. Spisak, Commonwealth Edison Co., 201 N. Arthur Ave., Mt. Prospect, Ill. 60056; 259-2300.

FOX VALLEY SUBSECTION

Chairman: Daniel J. Veith, Argonne National Laboratory, 9700 S. Cass Ave., Argonne, Ill. 60439; 739-7711.

Vice-Chairman: Ed. C. Edwards, Commonwealth Edison Co., 1319 S. First Ave., Maywood, Ill. 60152; 531-5328.

Secretary: John Stockberger, American Telephone & Telegraph Co., 1 N. Wacker Dr., Chicago, Ill. 60601; 641-8485.

Treasurer: Richard W. Srch, Bell Telephone Labs., Naperville, Ill. 60540 682-2779.

Program Chairman: Paul Jahn, Commonwealth Edison Co., 3501 S. Pulaski Rd., Chicago, Ill. 60623; 247-7272.

Arrangements Chairman: Bob Eyer, Commonwealth Edison Co., 1N423 Swift Rd., Lombard, Ill. 60148; 691-4524.

Membership Chairman: Bob Schadt, Westinghouse Electric, 10 S. Riverside Plaza, Chicago, Ill. 60606; 461-7302.

Welcoming Chairman: Roger Hovland, Commonwealth Edison Co., 1N423 Swift Rd., Lombard, Ill. 60148; 691-4572.

Communications Chairman: James R. Fancher, Commonwealth Edison Co., 1 First National Plaza, Chicago, Ill. 60690; 294-3338.

NORTHWEST SUBSECTION

Chairman: William J. Kusner, Illinois Bell Telephone Co., 225 W. Randolph

St., Headquarters 10-B, Chicago, Ill. 60606; 727-1972.

Vice Chairman: James H. Beall, Teletype Corporation, 5555 W. Touhy Ave., Skokie, Ill. 60076; 982-3055.

Secretary: Charles J. Heermans, General Time Corp., 7426 N. Linder Ave., Skokie, Ill. 60076; 583-1010.

Treasurer: Robert A. Waghorne, Teletype Corp. 5555 W. Touhy Ave., Skokie, Ill. 60076; 982-2243.

Program Chairman: Leo J. Aubel, Stone, Zummer, 134 S. LaSalle St., Chicago, Ill. 60603; 346-8440.

Publicity Chairman: Henry A. Pahl, United Conveyor Corp., 6505 N. Ridge Ave., Chicago, Ill. 60626; 761-4100.

Membership Chairman: Douglas R. Jenkins, Commonwealth Edison Co., 3500 N. California Ave., Chicago, Ill. 60618; 267-8131.

Arrangements Chairman: George J. Mack, Illinois Bell Telephone Co., 225 W. Randolph St., Rm. 23D, Chicago, Ill. 60606; 727-3339.

SECTION COMMITTEES

Advisory

Chairman: Paul F. Carroll, Semiconductor Specialists, 195 Spangler Ave., Elmhurst, Ill. 60126; 279-1000.

John J. Mikos, P.O. Box 32, Highland Park, Ill. 60035; 432-7158.

George C. Spisak, Commonwealth Edison Co., 201 N. Arthur Ave., Mt. Prospect, Ill. 60056; 259-2300.

Region 4 Director: Harry P. Bruncke, Bruncke Enterprises, 1710 N. Albert St., Falcon Heights, Minnesota 55113; (612) 646-2391.

Arrangements

Chairman: Joseph Ganzel, Motorola, Inc., 4501 W. Augusta Blvd., Chicago, Ill. 60651; 772-6500.

Awards

Chairman: Francis A. Cox, Commonwealth Edison Co., 1 First National Plaza, 36W., Chicago, Ill. 60690; 294-2915.

J. Edward Brown, Zenith Radio Corp., 6001 W. Dickens Ave., Chicago, Ill. 60639; 745-4700.

H. Earle Vaughan, Indian Hill Labs., Bell Telephone Laboratories, Inc., Naperville, Ill. 60540; 682-3242.

Budget and Finance

Chairman: Jerry F. Pospisil, Bell and Howell Schools—De Vry, 4141 W. Belmont Ave., Chicago, Ill. 60641; 545-2700.

Vice-Chairman: William J. Kusner, Illinois Bell Telephone Co., 225 W. Randolph St., Headquarters 10-B, Chicago, Ill. 60606; 727-1972.

Conference Planning

Chairman: Matthew J. Remec, Bell Telephone Laboratory, Naperville, Ill. 60540; 682-2299.

Membership

Chairman: Richard A. Bulley, Commonwealth Edison Co., 3500 N. California Ave., Chicago, Ill. 60618; 267-8131.

Membership Records

William J. Kusner, Illinois Bell Telephone Co., 225 W. Randolph St., Headquarters 10-B, Chicago, Ill. 60606; 727-1972.

Procedures

Charles W. N. Thompson, 240 Glencoe St., Glencoe, Ill. 60022; 835-2165.

Program

Dr. Henry A. Setton, University of Illinois, Office of the Dean of Engineering, Circle Campus, P.O. Box 4348, Chicago, Ill. 60680; 663-2401.

Public Relations

Benjamin F. Lathan, Malcom X Community College, 1745 W. Harrison St., Chicago, Ill. 60612; 243-3575.

SCANFAX (Chicago Section IEEE Publication)

Board of Directors

President: William E. Schwartzburg, Schmidt, Garden & Erikson, 104 S. Michigan Ave., Chicago, Ill. 60603; 332-5070.

Vice-President & Treasurer: John E. McManus, IIT Research Institute, 10 W. 35th St., Chicago, Ill. 60616; 225-9630.

Secretary: Ruth L. Oldfield, Gardner, Jones & Cowell, 79 W. Monroe St., Chicago, Ill. 60603; 782-5000.

Robert J. Nunamaker, Motorola, Inc., 4501 W. Augusta Blvd., Chicago, Ill. 60651; 772-6500.

B. C. Biega, Sola Electric Company, 1717 Busse Rd., Elk Grove Village, Ill. 60007; 439-2800.

Executive Editor: Ruth L. Oldfield, Gardner, Jones & Cowell, 79 W. Monroe St., Chicago, Ill. 60603; 782-5000.

Showtime

Chairman: John C. Bukovski, Commonwealth Edison Co., 1 First National Plaza, Chicago, Ill. 60690; 294-4321.

Spring Conference

Chairman: John Silvey, Magnavox Corporation, 1700 Magnavox Way, Ft. Wayne, Ind.; (219) 432-6511.

Executive Committee Representative: Joseph R. Ganzel, Motorola, Inc., 4501 W. Augusta Blvd., Chicago, Ill. 60651, 772-6500.

Spring Party & Recognition Dinner

Jim Ralston, Allen-Bradley Co., 838 S. Des Plaines Ave., Chicago, Ill. 60607; 922-9302.

Executive Committee Representative: Matthew J. Remec, Bell Telephone Laboratory, Naperville, Ill. 60540; 682-2299.

Student Activities

Richard B. Keener, Argonne National Laboratory, 9700 S. Cass Ave., Argonne, Ill. 60439; 739-7711.

Treasure Hunt

Chairman: Creighton Warren, Kleinschmidt Laboratories, Deerfield, Ill. 60015; 945-1000.

IEEE CHICAGO SECTION

Delegates & Representatives—1970-71

American Power Conference

Dr. Edwin R. Whitehead, IIT Research Institute, 10 W. 35th St., Chicago, Ill. 60616; 225-9630.

Chicago Technical Societies Council

John J. J. Staunton, Coleman Instruments Corporation, 318 Madison St., Maywood, Ill. 60153; 261-3214.

NATIONAL ELECTRONICS CONFERENCE

National Electronics Conf. Coordinator

Paul F. Carroll, Semiconductor Specialists, Inc., 195 Spangler Ave., Elmhurst, Ill. 60126; 279-1000.

Board of Trustees

Jerry F. Pospisil, Bell & Howell Schools—DeVry, 4141 W. Belmont Ave., Chicago, Ill. 60641; 545-2700.

Dean Henry A. Setton, U of I, Office Dean of Engineering, Circle Campus, P.O. Box 4348, Chicago, Ill. 60680; 663-2401.

Stephen F. Bushman, 1166 Oakwood Ave., Des Plaines, Ill. 60016; 824-7439.

George C. Spisak, Commonwealth Edison Co., 201 N. Arthur Ave., Mt. Prospect, Ill. 60056; 259-2300.

Board of Directors—IEEE Rep.

Kenneth E. H. Backman, Motorola, Inc., 4900 W. Flournoy St., Chicago, Ill. 60644; 379-5200.

Paul F. Carroll, Semiconductor Specialists, Inc., 195 Spangler Ave., Elmhurst, Ill. 60126; 279-1000.

Hugo Korn, Motorola, Inc., 9401 W. Grand Ave., Franklin Park, Ill. 60131; 625-6000.

GROUP CHAPTERS

Group Coordinator

B. C. Biega, Sola Electric Co., 1717 Busse Rd., Elk Grove Village, Ill. 60007; 439-2800.

Audio and Electroacoustics (G-1) (190)

Chairman: Henry L. Messerschmidt, Western Electric Co., Dept. 7614, Bell Laboratories, Naperville, Ill. 60540; 682-3820.

Vice-Chairman: Dr. A. Semmelink, 259 Scottswood Rd., Riverside, Ill. 60546; 447-8621.

Antennas and Propagation (G-3) (76)

Chairman: Lawrence H. Hansen, Andrew Corporation, 10500 W. 153rd St., Orland Park, Ill. 60462; 349-3300.

Vice-Chairman: Eric Book, Andrew Corporation, 10500 W. 153rd St., Orland Park, Ill. 60462; 349-3300.

Secretary: Thomas M. Smith, University of Illinois, College of Engineering, Department of Information Engineering, Chicago Circle Campus, P.O. Box 4348, Chicago, Ill. 60680; 663-5487.

Circuit Theory (G-4) (255)

Chairman: Harry Venema, Borg-Warner Research Center, Algonquin and Wolf Rds., Des Plaines, Ill. 60018; 827-3131.

Nuclear Science (G-5) (98)

Chairman: K. Joseph Knupp, Hewlett Packard, 5500 Howard St., Skokie, Ill. 60076; 677-0400.

Vice Chairman: William P. Lidinski, Argonne National Labs., 9700 S. Cass Ave., Argonne, Ill. 60439; 739-7711.

Secretary: John Carroll, Packard Instrument Co., 2200 Warrenville Rd., Downers Grove, Ill. 60515; 969-6000.

Vehicular Communications (G-6) (115)

To be announced

Reliability (G-7) (64)

Chairman: Martin W. Joseph, U.S. Naval Ordinance Station, 7500 W. Roosevelt Rd., Forest Park, Ill. 60130; 366-2700.

Vice-Chairman: George T. Jacobi, IIT Research Institute, 10 W. 35th St., Chicago, Ill. 60616; 225-9630.

Broadcast & TV Receivers (G-8) (200)

Chairman: John Silvey, Magnavox Corporation, 1700 Magnavox Way, Ft. Wayne, Ind. 46804; (219) 432-6511.

Instrumentation & Measurements (G-9) (112)

To be announced

Aerospace & Electronic Systems (G-10) (100)

Chairman: Robert C. Schur, Hallcrafters Co., 600 S. Hicks Rd., Rolling Meadows, Ill. 60008; 259-9600.

Vice-Chairman: Walter C. Wisnowski, Hallcrafters Co., 600 S. Hicks Rd., Rolling Meadows, Ill. 60008; 259-9600.

Secretary: Norbert Orzula, Hallcrafters Co., 600 S. Hicks Rd., Rolling Meadows, Ill. 60008; 259-9600.

Information Theory (G-12) (85)

Chairman: Prof. F. P. Preparata, University of Illinois, Electrical Engineering Department, Urbana, Ill. 61801; (217) 333-2511.

Vice-Chairman: Dr. Edward A. Patrick, Purdue University, Lafayette, Ind. 47907; (317) 493-3027.

Secretary: Prof. Stephen Tsai, University of Illinois Chicago Circle, Information Engineering, Chicago, Ill. 60680; 663-5490.

Treasurer: Dr. Daniel J. Costello, Jr., Illinois Institute of Technology, 3301 S. Dearborn St., Chicago, Ill. 60616; 225-9600.

Engineering Management (G-14) (285)

Chairman: Raymond N. Gustafson, Argonne National Laboratories, 9700 S. Cass Ave., Argonne, Ill. 60439; 739-7711.

Vice-Chairman: John O. Renskers, Coilecraft, Inc., Silver Lake Rd., Cary, Ill. 60013; 763-1800.

Secretary: Cyril M. Turner, 310 W. Park Ave., Wheaton, Ill. 60187; 668-8586.

Electronic Computers (G-16) (451)

Chairman: Dr. William B. Smith, Bell Telephone Laboratories, Naperville, Ill. 60540; 682-2293.

Vice-Chairman: Edmund B. Daly, Automatic Electric, Northlake, Ill. 60164; 562-7100.

Secretary: Victor Hachenburg, Bell Telephone Laboratories, Naperville, Ill. 60540; 682-2502.

Microwave Theory & Technique (G-17) (115)

Chairman: John Meier, Andrew Corporation, 10500 W. 153rd St., Orland Park, Ill. 60462; 349-3300.

Vice-Chairman: Dr. Donald A. Miller, IIT Research Institute, 10 W. 35th St., Chicago, Ill. 60616; 225-9630.

Secretary/Treasurer: Gary Stanton, Andrew Corporation, 10500 W. 153rd St., Orland Park, Ill. 60462; 349-3300.

Engineering in Medicine & Biology (G-18) (114)

Chairman: Dr. Julia Apter, Pres. St. Luke Hospital, 1753 W. Congress, Chicago, Ill. 60612; 942-6523.

Vice Chairman: John Webster, University of Wisconsin, EE Dept., Madison, Wis. 53706; (608) 263-1574.

Secretary: George W. Hughes, Purdue University, School of EE, Lafayette, Ind. 47907; (317) 493-3816.

Communications Technology (G-19) (304)

Chairman: Mel A. Jacobs, Automatic Electric Laboratories, 400 N. Wolf Rd., Northlake, Ill. 60164; 379-4300.

Vice-Chairman: Ernie Karras, TEK-NO Industries, 7051 Wilson, Norridge, Ill. 60656; 622-0178.

Secretary: Guy Menninga, Cook Electric Company, 6401 Oakton St., Morton Grove, Ill. 60053; 967-6600.

Parts, Materials & Packaging (G-21) (63)

Chairman: Gerald J. Mares, Essex International, Inc., 6235 S. Harlem Ave., Chicago, Ill. 60638; 586-3000.

Vice-Chairman: Richard E. Cichanski, Dole Division, Eaton, Yale, & Towne, 191 E. North Ave., Carol Stream, Ill. 60187; 682-8277.

Automatic Control (G-23) (130)

Chairman: William Thompson, Argonne National Laboratories, 9700 S. Cass Ave., Argonne, Ill. 60439; 739-7711.

Vice-Chairman: Prof. Andre G. Vercroux, Illinois Institute of Technology, Electrical Engineering Department, Chicago, Ill. 60616; 225-9600.

Electromagnetic Compatability (G-27) (55)

Chairman: Robert Petersen, Kleinschmidt Labs., Deerfield, Ill. 60015; 945-1000.

Power (G-31)

Chairman: Gerald P. Ernst, General Electric Company, 840 South Canal St., Chicago, Ill. 60680; 663-3718.

Vice-Chairman: William H. Dunbar, Jr., Commonwealth Edison Company, 7601 S. Lawndale Ave., Chicago, Ill. 60652; 582-1125.

Secretary: Thomas J. Tobin, S & C Electric Company, 6601 Ridge Blvd., Chicago, Ill. 60626; 338-1000.

Electrical Insulation (G-32) (49)

Chairman: William R. Hayes, Joslyn Mfg. & Supply Co., 969 W. 37th Place, Chicago, Ill. 60609; 927-1420.

Vice Chairman: George E. Lusk, G & W Electric Speciality Co., 3500 W. 127th St., Blue Island, Ill. 60406; 468-5255.

Secretary: Richard A. Gregory, Gregory Elevator Maintenance Co., 6367 N. Broadway Ave., Chicago, Ill. 60626; 973-6367.

Industry and General Application/Industrial Electronics and Control Instrumentation—Combined Group (G-34/13) (330)

Chairman: Jack Keefe, Lundell Controls, Inc., 2560 N. Elston Ave., Chicago, Ill. 60647; 772-8200.

Vice-Chairman: John Holmquist, Sola Electric Co., 1717 Busse Rd., Elk Grove Village, Ill. 60007; 439-2800.

TREASURE HUNT 1970

The 1970 IEEE Treasure Hunt will take place, rain or shine, on Saturday night, October 3, 1970, from 7:00 p.m. to 12:30 a.m.

The Hunt will be limited to 150 cars. Reservations will be issued on a first-come, first-serve basis, so get your teammates together and send in your check.

A Committee of twenty-eight people has been working on the Hunt since February. We have consulted with Ruth Jarvis, and she has given us the benefit of her twenty-four years' experience in planning Hunts.

Twenty clues have been selected for the Hunt. We will be spending the summer months and the month of September selecting clue locations and finalizing the map.

Tickets for the Hunt will be \$18 per couple. Only reservations for a full car (three couples) will be accepted. The ticket includes a roast sirloin of beef dinner at the Convention Hall of Henrici's O'Hare Inn following the Hunt. Tickets for the Hunt only will not be sold. If you attend the Hunt, you must pay for a dinner.

Make checks payable to IEEE 1970 Treasure Hunt and mail with coupon below to:

Creighton Warren
SCM Kleinschmidt
Lake-Cook Rd.
Deerfield, Ill. 60015

CREIGHTON WARREN
SCM Kleinschmidt
Lake-Cook Rd.
Deerfield, Ill. 60015

Enclosed is our check for \$54 for the 1970 IEEE Treasure Hunt on Saturday, Oct. 3. We understand that the Hunt will take place rain or fair, and that full instructions and tickets will be mailed to us a few days before the Hunt.

Names of Team-mates

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Mail all instructions and tickets to:

(Telephone)

MAKE CHECKS PAYABLE TO: IEEE 1970 TREASURE HUNT

SEPTEMBER 15, 1970

Microwave Theory and Techniques

Dr. Harold Sobel, MTT National lecturer, will discuss "The State of the Art of Microwave Integrated Circuits" on Sept. 15. His talk will include technologies currently used and the electrical and material design considerations involved in producing today's MICs. Example of current devices will be presented with a discussion of their development.

Dr. Sobel received his BSEE from the City College of New York and his MSE & PhD. from the Univ. of Michigan. He is currently the manager of Microwave Microelectronics, RCA Components Division, Somerville, N.J. Previous to this he worked on plasmas, plystrons, solid state devices and microwave integrated circuits at RCA Labs.

Micronow Corporation will sponsor a social hour at 5:30 p.m., dinner will be at 6:30 p.m. and the meeting will start at 7:30 p.m., at the Black Steer Restaurant, 6446 W. North Ave., Chicago, Ill. Phone Gary Stanton at 349-3300 by 5:00 p.m., Sept. 13, for reservations to attend this outstanding meeting.

Henry H. Schmalz Heads Quality Assurance

Henry H. Schmalz has been promoted to corporate director of quality assurance at Zenith Radio Corporation. He was previously the director of quality assurance for the Rauland Division of Zenith Radio Corporation from August 1966 to April 1970. Earlier, he was chief engineer of black-and-white TV tube manufacture at Rauland from May 1961. He joined Rauland's engineering staff in April 1946.

BUSINESS DIRECTORY

312/279-1000

RICHARD WEAIRE
Sales Engineer

Semiconductor  *Specialists INC.*

Mailing Address: P.O. BOX 66125
O'HARE INT'L AIRPORT
CHICAGO, ILLINOIS 60666

Chicago Office: 195 SPANGLER AVE.
ELMHURST INDUSTRIAL PARK
ELMHURST, ILLINOIS 60126



**INDUSTRIAL
MARKETING
ENGINEERS**

Serving Electronic and
General Industrial Clients

Advertising/Direct Mail/Press Relations/Technical Literature/
Catalogs/Audio Visual Service/Product, Market Analysis

P.O. BOX 7, WESTERN SPRINGS, ILLINOIS 60558 PHONE (312) 352-3352