

A Letter from the Chairman

Dear Colleague,

The major events of the IEEE Centennial celebration will close with the Centennial Forum for Young Engineers and the IEEE Keys to the Future programs and banquet in San Jose, California, November 30th. The details are elsewhere in this issue.

Everyone concerned with the various events are to be congratulated; especially the Centennial Task Force, headed by Dr. John Ryder and Don Brereton.

The Centennial Convocation in Boston and the IEEE - Franklin Institute Technical Convocation in Philadelphia exuded "class" in every way - speakers, presentations, and attendance.

Life Member breakfasts and luncheons at the various ECM, Inc. exhibits - Electro, Wescon, Midcon and Southcon - are very well attended and have excellent programs to offer in addition to the reunions with old friends. Plan to be on hand if you are in the vicinity of any of the shows in 1985. You will be informed as to dates and places.

There are some commemorative items left and I especially recommend the Ryder/Fink book, *Engineers and Electrons*. It is easy and most informative reading about the IEEE and the people who helped it grow. The LM Fund contributed \$15,000 toward the publication of this book. We also contributed \$15,000 to the Ben Franklin Museum for its newly designed Electrical and Electronics Exhibit.

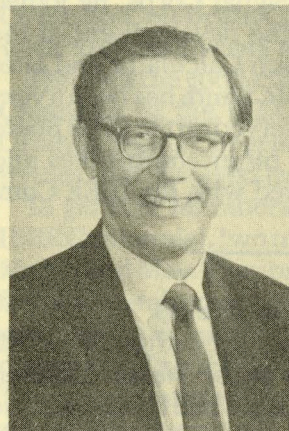
Sincerely yours,

Julian D. Tebo
Julian D. Tebo, Chairman
1984 Life Member Fund Committee

Greetings
of the Season

C. A. Eldon will be IEEE President in 1985; Bruno O. Weinschel is President-Elect and Merlin G. Smith is Elected Executive Vice President

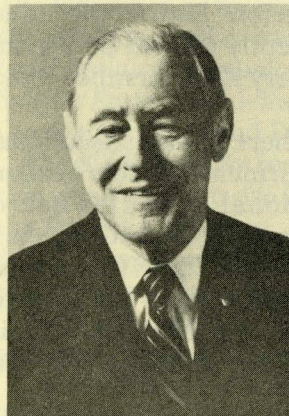
Under the provisions of the IEEE Bylaws, C.A. (Bud) Eldon was elected by the IEEE Assembly on May 17, 1984 to fill the office of 1984 President-Elect, occasioned by the death of Donald D. King on March 13, 1984. "Bud" Eldon, therefore, will be the IEEE 1985 President.



Mr. Eldon is Corporate Manager, Capital Equipment, Hewlett-Packard Company, Palo Alto, California. He joined the IEEE in 1956 and in recent years has been a member of the IEEE Board of Directors (1979-84), Executive Vice President (1983), Treasurer (1981-82) and Region 6 Director (1979-80). He has served on many committees and Boards of the IEEE, including Professional Technical Groups, Technical Activities Board, U.S. Activities Board and the USAB Review Committee. Frequently he has served as chairman.

There were 44,360 ballots cast during the annual IEEE election. Bruno O. Weinschel was chosen as IEEE President-Elect, 1985. (21,660 votes for Mr. Weinschel vs. Jose B. Cruz, Jr., runner-up - 21,381.) It was a very close race!

Merlin G. Smith becomes Executive Vice President.



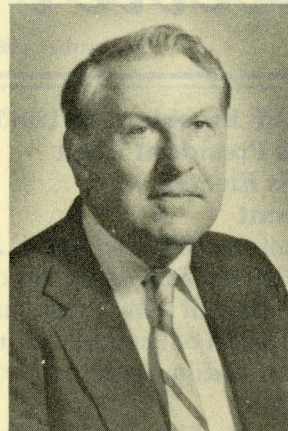
Mr. Weinschel is President and Chief Engineer of Weinschel Engineering Company, Gaithersburg, Maryland. A native of Stuttgart, Germany, Mr. Weinschel received a BA-Physics (equivalent) and a DR-Engineering at Technische Hochschule, Stuttgart and Munich; Honorary DR-Science, Capital Institute of Technology. His career includes stints with Western Electric, Industrial In-

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Annual IEEE Election

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struments and the National Bureau of Standards. Since 1952 he has headed his own company in Maryland. He is a registered professional engineer and a Fellow of IEEE and the British IEE.



Merlin G. Smith is the Technical Assistant to Vice President of Logic and Memory, IBM/T.J. Watson Research Center, Yorktown Heights, New York. He received his B.S.E.E. degree from the University of Cincinnati in 1950 and the M.S.E.E. from Columbia University in 1957. After military service in the Signal Corps, he joined

IBM and was active in the development of the Naval Ordinance Research Calculator and later large-scale integration. Mr. Smith has been a very active volunteer, having served on the IEEE Board of Directors and many other committees and boards especially involved with the IEEE Computer Society.

The IEEE Centennial: 1984 in Review of Major Events

When the evening was over after the IEEE Centennial Convocation at the Westin Hotel in Boston, everyone agreed IEEE had hit a milestone in celebrations. We remember David Packard's speech before 800 members and distinguished guests...past presidents...Fellows...Nobel Prize winners...great inventors...Marconi's daughter... Bob Lucky's colorful quips as Master of Ceremonies...a remarkable performance of "Generations of Giants" with Benjamin Franklin... the great display of gifts brought from 33 countries around the globe by some 85 Learned Societies... the spectacle and formality of the entire occasion. Prior to the banquet in the afternoon there was a reception and exchange of gifts with the Learned Societies and Associations. IEEE Annual Awards Night took place the day before. Each recipient and his award were prominently flashed on a giant screen. How we wish every IEEE member could have been on hand.

On the following day there was a transnational gathering of Section Chairmen and other Section Officers with the Regional Activities Board (RAB)—the "IEEE Centennial Sections Congress." At the same time there was an "IEEE Centennial Educational Forum." Leaders from the government, industrial and educational fields gave their views relating to education. Audience reaction followed.

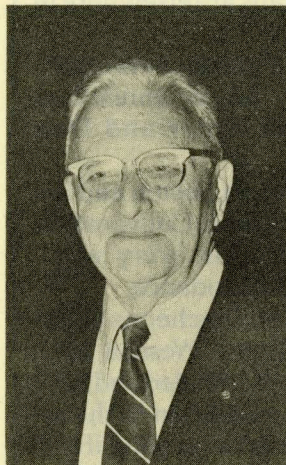
All during the year at various functions and celebrations, close to 2000 Centennial medals were

presented to people who distinguished themselves in their fields or through service to the IEEE.

On November 12th, President Gowen unveiled a plaque in the lobby of the United Engineering Center, New York City. The bronze memorial commemorates the 100th Anniversary of the founding of the IEEE. As many of you know, the AIEE was organized at a meeting in New York City on May 13, 1884, and the IRA was founded on May 13, 1912 in the same city. Their merger took place on January 1, 1963 to form the IEEE.

The Centennial Convocation in May prevented the unveiling on the anniversary date. Many Life Members were on hand for the ceremony.

Dr. John Ryder Tells of IEEE Merger at Midcon Life Member Luncheon



At Midcon/84 in Dallas a great turn out enjoyed the hospitality provided by ECM, Inc., and the IEEE. The usual refreshments were served each morning and all day. The luncheon speaker was Dr. Jack Ryder whose brilliant career includes contributions to General Electric and the Bailey Meter Company and the position of Dean of Engineering at Michigan

State University. He has a great knowledge of the history of IEEE, having been president of the IRE. Since he has an intimate knowledge of the merger of IRE and the AIEE which formed the IEEE on January 1, 1963, he chose that subject for the luncheon.

Dr. Ryder covered the importance of the establishments of groups by the IRE. How they met the needs of the members in the established fields of electronics and helped attract new members as new fields opened. The first group was on Audio Engineering, now the Society on Acoustics, Speech and Signal Processing. The IRE group plan allowed any group of 100 or so members to petition for recognition as a subsociety within the IRE.

Each group was encouraged to publish a journal with its own editor, which collectively became known as the IRE Transactions.

In 1903 the AIEE established Student Branches as campus organizations. The IRE was late in providing for organization of prospective members, not having Student Members until 1941. Only in 1947 were the first IRE Student Branches authorized.

By this time the AIEE had 126 branches.

Eventually many schools established separate AIEE and IRE Branches and students had to pay dues to both. Faculty counselors petitioned for joint

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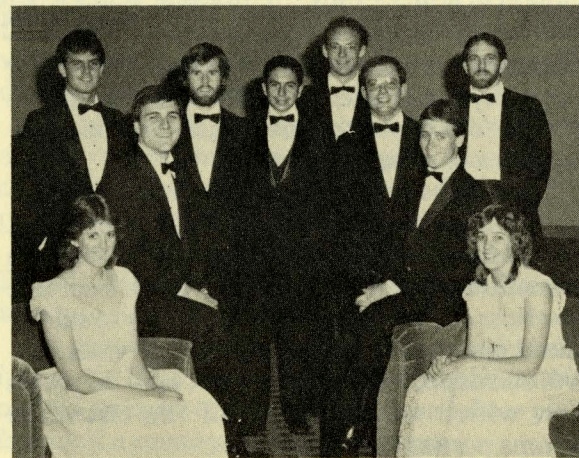
Dr. John Ryder

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activities. In 1950, the Boards of the two Institutes acceded to this request. By 1962, there were 169 Joint Student Branches.

Space doesn't permit going into details, but it was the influence of the Students and the establishment of the *IRE Student Quarterly* in 1954 - influenced primarily by T.A. "Ted" Hunter, a member of the IRE Board of Directors from Iowa City, who helped bring about the merger.

Dr. Ryder covered the *Ashville Resolution*, the details of the merger to form IEEE, his own influence and that of Lloyd V. Berkner, Clarence H. Linder, B. Richard Teare, and Patrick E. Hagerty; the many meetings, the new bylaws, etc. Fact was that both Societies were incomplete. Together "they covered the ground!" IEEE came to be on January 1, 1963.



Awaiting their cue for the VIP reception and Centennial convocation are Outstanding Centennial Students (left to right) Karen Miller (Region 3); Michael Gold (Region 4); Ted Staub (Region 1) (seated); Lindsay Kleeman (Region 10); Jorge Escobedo (Region 9); Karl Wilhelmson (Region 6); Philippe Siraut (Region 8); Andrew Vernon (Region 7) (seated); Guy Kilchrist (Region 5); and Patti Nunn (Region 2).

Outstanding Students from IEEE's 10 Regions Had a Memorable Experience at the Centennial Convocation in Boston

They were selected as outstanding students - one from each IEEE Region, by a nomination procedure approved by the Student Activities Committee (SAC). Although there were some slight variances in the way they were chosen, all met the criteria: They had to be members of IEEE through April 15, 1985; exemplify the qualities of student leader; instrumental in the success of their Student Branch; and have a strong desire to be involved in the IEEE Centennial Celebration.

From May 12th thru the 15th, they attended meetings, receptions, luncheons and dressed formally for the Convocation banquet. Each one had an opportunity to be introduced to such greats as Ian Ross, president of AT&T, president of Bell Laboratories, David Packard, and John Bardeen,

a double winner of the Nobel Prize in Physics. He is also co-inventor of the transistor.

Their activities included attendance at a SAC meeting, the IEEE annual awards presentations and reception, the Learned Societies luncheon and reception prior to the Convocation banquet. Here each student was honored with the IEEE Centennial medal. They also participated in the Section Congress forum and the dinner that evening.

Andrew Vernon, Region 7 (Canada) seemed to voice the reaction of the students. He said, "To be formally introduced to David Packard and to Norman Ramsey, the 1984 Medal of Honor winner, recipient for the Cesium atomic clock and hydrogen mase oscillator, is something I will never forget."

(For a more complete report on these students' activities, see *IEEE Potentials* magazine, page 7, October 1984.)

Orlando Celebrates IEEE Centennial with Special Events for Life Members

Through the good efforts of Deen Khandelwal, Chairman of the IEEE Centennial Committee, Orlando Section, here is a report of celebration activities that involved the Life Members...

To get Life Members more involved with the IEEE Centennial, two meetings were held during March and May. They provided an unusual forum for Life Members to remember the good old days and good old techniques in a professional atmosphere. The IEEE history slides were shown. The presentation, "A Century of Electricals," covers the key people, inventors and events of growth of our industry.

Various Centennial commemorative items were on display for sale, and many items are still being sold to Orlando section members.

This section has placed a complete set of IEEE/AMSI Standards (hard covers) in the Orlando Public Library for use by its members and the public. It has also placed the following books in the library:

Engineers and Electrons, by Fink and Ryder
IEEE Dictionary of Standard Electrical

and Electronics Terms
The Making of a Profession
IEC Multilingual Dictionary of Electricity
Land-Mobile Communications
Systems Engineering, edited by Sam McConoughey, George McClure and Denis Bodson

The IEEE-Franklin Institute Technical Convocation was transmitted to Orlando via satellite from the Franklin Institute, Philadelphia on October 8th. All members were guests of the Orlando Section. It was an inspiring night!

Section members can borrow the complete set of History Posters for display at work or elsewhere.

"A Day With Life Members" was held October 20th at the Senior Citizen Center. There was an

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A Laboratory in Space...

Byron K. Lichtenberg, First Scientist in Space, Thrilled Life Members in Boston

One of the finest presentations to a Life Member session was given by Dr. Byron K. Lichtenberg, head of the Man Vehicle Laboratory, Massachusetts Institute of Technology. He is the first scientist in space, having accompanied the Columbia space shuttle on its December, 1983 mission.

(See Life Member Fund Newsletter, March, 1984, p. 5.)

An articulate speaker, Dr. Lichtenberg explained his voyage from take off to landing, using a motion picture made during flight. Here are some of the highlights of his talk:

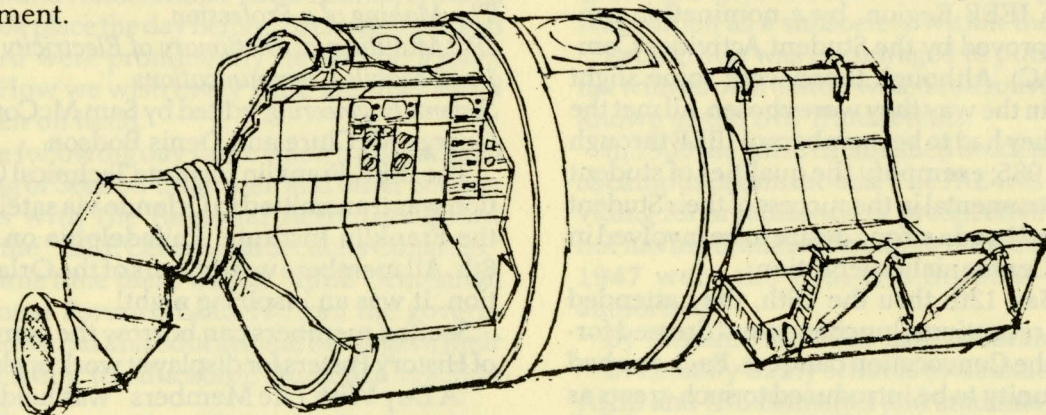
The National Aeronautics and Space Administration (NASA) Space Shuttle carried the European Space Agency (ESA) Spacelab on its first mission. Thus a dream was realized: scientists are no longer earthbound, but like astronauts, are able to go into space to perform research that cannot be done on Earth.

ESA represents some 50 industrial firms in 10 European countries which built Spacelab. NASA was responsible for the launch.

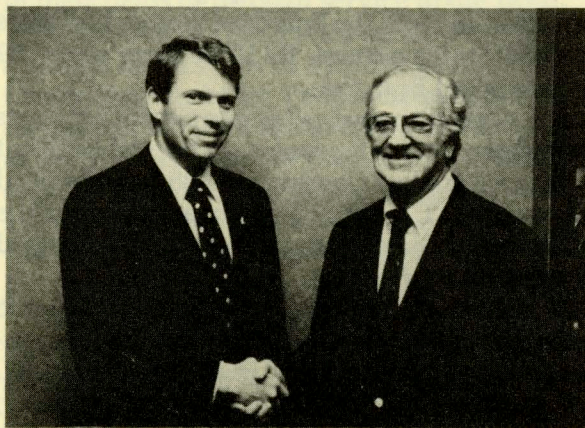
Spacelab is a versatile modular facility installed in the Space Shuttle Orbiter and exposed to space when the cargo bay doors are opened. It consists of an enclosed, pressurized laboratory containing utilities, computers, work benches and instrument racks for the conduct of experiments, as well as outside platforms (pallets) where such equipment as telescopes, antennas, and sensors are mounted for direct exposure to space. Spacelab can be outfitted with several tons of laboratory instruments for studies in astronomy, physics, chemistry, biology, medicine and engineering.

The Spacelab facility is designed for scientists; not necessarily astronauts.

As an observatory platform, Spacelab allows us to view the Earth as a global entity and to peer deeply into space. As a laboratory, Spacelab enables us to mix chemicals, grow cells, and examine behavior in essentially a gravity-free setting and to experiment directly in the surrounding space environment.



The laboratory module and one pallet will be used for the Spacelab 1 mission. Other configurations of Spacelab units can be used for future missions.



Francis X. Timmons congratulates Dr. Lichtenberg following his talk at Life Member Luncheon. Timmons, IEEE Centennial Administrator, has been writing the LMF Newsletter for the last eight years. He plans to retire in February, 1985. (FXT on right)

Experiments were made to determine how solar energy physically affects the Earth's environment so that we can depict and prepare for practical consequences of solar fluctuations.

A large-film metric camera has produced high-resolution photographs for making better maps, and a micro-wave remote sensing facility provides all-weather radar viewing of the Earth's surface regardless of cloud cover. All the better to survey natural resources—timber, minerals, water.

We can expect new answers to "how do plants know which way is up?" and "do circadian rhythms persist in space?"

There were a number of investigations testing low-gravity techniques for processing materials. In space, solutions mix more uniformly, containers that restrain or contaminate their concepts are not necessary, chemicals can be combined into drugs with greater purity.

Dr. Lichtenberg has now started his own business which will function in space utilizing weightlessness as a means of producing better products for mankind. It is called Payload Systems, Inc., and operates out of Wellesley, Massachusetts.

The Franklin Institute and the IEEE

The brightly illuminated statue of Benjamin Franklin (very similar to the Lincoln Memorial in Washington, D.C.) was the center piece for the magnificent banquet setting for the IEEE-Franklin Institute Centennial Convocation. Theme: *The Second Century Begins*. Dr. Gowen introduced the President of the United States, Ronald Reagan who greeted the members of the IEEE and guests on video screen with four minutes of laudatory comments about the benefits to mankind of our membership over the years. The evening's proceedings were telecast via satellite to some 140 cities enabling IEEE members to participate. Keynote speaker Bernard M. Oliver, was followed by panelists Charles H. Townes, Alvin Toffler, and Joshua Lederberg.

On opening day there was an Historical Observance, "Milestones of the Electrical Age" and opening of a new Franklin Institute exhibit in honor of the Convocation. A technical program followed with Nobel Laureates, scholars, and leaders of industry and academe.

On the third day speakers covered such subjects as microelectronic technologies; computers; robotics and cognitive science; and energy and power conversion.

A beautiful bronze plaque was unveiled by IEEE President Gowen and the Curator of the Franklin Institute. It reads (in part):

On this historic occasion as the second century begins, the IEEE pays tribute to the Franklin Institute and the pioneers of both organizations whose vision launched a century of electrical progress.

IEEE Centennial Movie Honored

The movie created by Film Counselors and Associates, Inc., for the IEEE has been singled out for special recognition by the American Society of Association Executives, Washington, D.C. "The Miracle Force" has been awarded a Certificate of Merit among the annual Gold Circle Awards given by the ASAE.

The goal of our film is to bring to public awareness the inventive genius and talents of electrical and electronics engineers in a dramatic way and thereby prompt appreciation and respect for the profession.

Centennial Mementos Still Available

Although many items are out of stock, you can still buy a Centennial tie (blue or brown) \$10 each, a bronze key ring with an exact replica of the IEEE Centennial medal, \$10; a Centennial pen for \$6.50; First Day Cover with the four electrical inventors enclosed in a wallet with brief bios of each, for

To the New Life Members and 65'ers—Some Facts for You...

The Board of Directors and the Technical Activities Board encourage reduced conference fees for Life Members. The essence of the policy (1978) which can affect your payment for attendance at various conferences reads:

Reduced fees, or waiver of fees, or fee differential for Students, for retired Members, for Life Members, and for special registrants... are permitted at the discretion of the Conference Committee.

Setting the Record Straight...

Eligibility for Life Membership

To become an IEEE Life Member, you must be 65 or older. Then you add the number of years of IEEE, or its predecessor societies, membership and the total must be at least 100 years.

About Society Membership...

An individual with not less than five years of Society membership immediately prior to attaining Life Membership may continue in the Society without fee payment. Thus the LM would receive free of charge all technical periodicals—Transactions, Journals, Magazines—offered by each Society for which the five-year requirement is satisfied.

To avoid mailing of unwanted publications, Society Life Members are asked *every year* to confirm their continued interest in requested publications in writing. *There are two options:*

1. Limited Service. You remain a member of the Society, but receive only Newsletters, Conference announcements and other special mailings.
2. Full Service. In addition to the above, you receive Magazines, Transactions and Journals that you list on the form which is sent each year in July.

Unless you return the form, the IEEE Service Center will assume you no longer want the Society publications.

As a Life Member, you automatically receive SPECTRUM (unless indicated in writing otherwise). All other publications—Conference Records, *Proceedings of the IEEE*, IEEE Press Books, IEEE Membership Directory, IEEE Standards Dictionary of Electrical and Electronics Terms, etc., are available at regular member rates.

\$7.50; a timeline poster—a 100 years of people and places and developments that have advanced the state-of-the-art since the founding of IEEE—\$3.00; and a set of Centennial History Posters—\$22.00. Christmas is coming and any of the above would make a wonderful gift. (A hint to your spouse might help!)

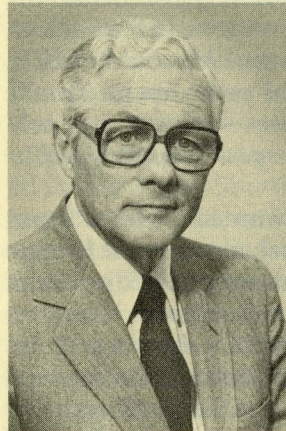
Celebration in Toronto and Reflection on the Future Needs of the IEEE

A brainchild of President Gowen, a one-day forum focused attention on key issues of future concern to the public and electrotechnology community throughout the world. The scene: the Inn On the Park Hotel in Toronto, Canada.

The forum was conducted with the IEEE Board of Directors and distinguished leaders of the Institute present. In the evening, a reception and banquet was hosted by the IEEE president. He acknowledged and introduced members and guests on both sides of the Canadian border.

Benjamin Franklin with Canadian honor guard delighted the audience with his comments and viewpoints on relations with our friends and neighbors in Canada.

Donald L. Suppers is the New Staff Secretary for the Life Member Fund Committee



Charles F. Stewart, Jr., IEEE Staff Director, Administration, who has been Staff Secretary of the Life Member Fund for some ten years, has turned over the assignment to Donald L. Suppers, Staff Director of IEEE Field Services. Since the Life Member Fund is a member service, it is felt that Mr. Suppers is the logical person

to supervise the paperwork for this endeavor. Don was formerly Dean of Academic Affairs for Mercer County Community College of New Jersey. He has also taught electrical engineering and mathematics at that college. He is a graduate of Rutgers University, having received his Masters in EE. He holds a BS in EE from Bucknell.

For his "contributions to career education" he received the Allen R. Cullimore Award from the New Jersey Institute of Technology.

We welcome Don to the Committee and look forward to working with him in the years ahead.

Orlando Celebrates IEEE Centennial

(continued from page 3)

open forum for Life Members to tell about their contributions to IEEE. Dr. John Ryder gave his talk on the AIEE/IRE merger (see page 2) and discussed little-known items of IEEE history. Wine and cheese were served, compliments of the Section.

There was on display an exhibition of pre-World War II electrical items, thanks to the cooperation of Dr. H. H. Wolff, Life Fellow, with the help of IEEE students at the University of Central Florida.

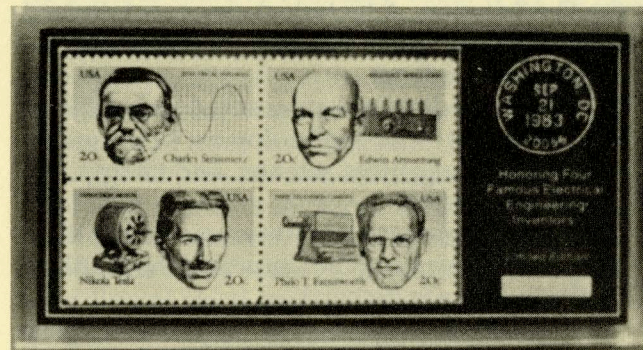
Newly Appointed Director of IEEE Center for the History of Electrical Engineering is Dr. Ronald R. Kline

Fresh from a stint at the University of Wisconsin-Madison, Dr. Ronald R. Kline has been named Director of the IEEE Center for the History of Electrical Engineering.

Dr. Kline received the B.S.E.E. degree from Kansas State University in 1969. After graduation, he worked as a Field Engineer and Systems Analyst with General Electric Ordnance Systems, Pittsfield, Massachusetts, from 1969 to 1977. In that year, he was awarded the IEEE Fellowship in Electrical History, completing his Ph.D. in 1983. His dissertation was on the life of Charles Proteus Steinmetz.

The Fellowship was made possible by a grant from the IEEE Life Member Fund.

Limited Edition of Lucite Blocks Feature Four Commemorative Stamps



The four commemorative stamps depicting Charles Steinmetz, Edwin Armstrong, Nikola Tesla, and Philo T. Farnsworth have been beautifully encased in lucite as a memento. Only 200 have been created and each is numbered from 1 to 200, thus ensuring the value of each as a collector's item.

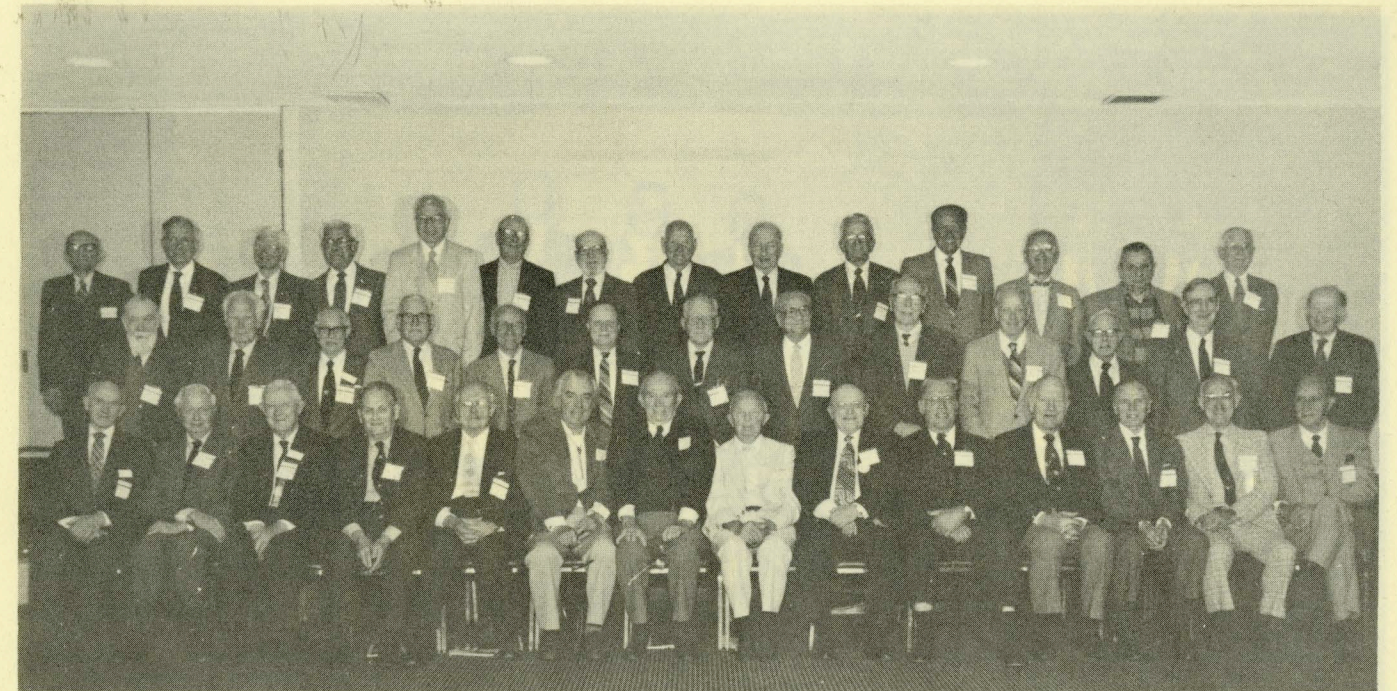
The price is \$25.

At this printing, approximately 100 are still available and may be purchased by writing to the IEEE Service Center, 445 Hoes Lane, Piscataway, N.J. 08854.

The photograph shows the front of the block (makes a beautiful paperweight) and the reverse side has a brief description of each inventor's major accomplishment.

First Day Covers are also available in limited quantities. The cancelled envelope alone is \$3.95 when enclosed with stamped self-addressed business-sized envelope. A Walet with FDC enclosed and description of each inventor is \$7.50.

(See page 5 for other IEEE Centennial commemorative items still available for sale.)



ELECTRO/84 IEEE Life Members

Row 1 (sitting): L. F. Cleveland, Mr. Keithley, Truman Gray, Mr. Kinsman, Henry B. Brainerd, Thomas J. Carroll, Mr. Debehencourt, Mr. Raskhodoff, Mr. Cole, Charles A. Strom, Jr., Karl E. Clough, Mario F. Messa, Jerome Strongin, Edward Keonjian. Row 2 (standing): Albert C. Hill, R. W. Sears, Julian D. Tebo, B. A. Cogbill, E. Corea, Laurence B. Stein, Jr., Walter Misala, A. B. Giordano, Wm. M. Hall, Wm. Boice, William Sanderson, James E. Shepherd, Jan Rajchman. Row 3 (top): Joseph Monshaw, Burton B. Stuart, Mr. Lennan, Edward Noorigan, Arnold A. Sorensen, David Buchanan, John J. McNiff, Harold A. Baines, Frank Lewis, Mr. Burpee, G. M. Arthur, Hyman G. Yamins, Ralph H. Vacca, Herbert R. Stewart.



ELECTRO/84 IEEE Life Members

Row 1 (sitting): Alex Edmonston, Mr. Sosciq, Mr. Avila, William Elmer, Susan Kingston, Donald Sinclair, Jack Rosenbaum, Sidney B. Williams, Mr. Jones, Lewis I. Mendelsohn, William Sen, John McClennan. Row 2 (standing): N. B. Krim, William E. Barbour, Amos H. Hilton, James D. Abbott, William C. Brown, J. P. Wood, Charles E. Applegate, Frank Lyman, Jr., Milo P. Hnilicka, Mr. Tanner, Mr. Kihn, E. M. Pritchard. Row 3 (top): Harry Johnson, Arthur Quint, Warren H. Falls, Claude W. Darling, Ronald L. McFarlan, Mr. Seeley, George A. Phillips, Edmund H. Povey, P. J. Hanson, C. E. White, Mr. Lingel.



MIDCON/84 IEEE Life Members

Row 1 (seated): Orville Becklund, Dick Arnett, Mark Bullock, Gordin Teal, John Ryder, J. Willard Miller, Bob Broding, Bart Green, Durward Tucker, G. M. Howard, Robert Smith. Row 2: John Green, E. T. Garrett, Donald Needham, Bruce Angwin, James Weldon, Warren Breune, J. Koski, John Robuck, William Stevens, Lorn Howard.

Final Major Event Held in San Jose, CA a Huge Success. Over 660 Attended Salute to Young Engineers.

After a sumptuous banquet, some 660 IEEE members and guests enjoyed a lively evening in San Jose, full of interesting happenings and excellent presentations.

On November 30th, at the Red Lion Inn, 34 "Young Engineers" were honored for their early accomplishments and expected promise in the future. They received beautifully designed silicon keys embedded in lucite with their names and societies engraved on a black onyx base.

Dr. Stephen Kahne made the presentations to the young engineers.

Dr. Gordon Moore, Chairman of the Board, Intel Corporation, was the principal speaker. He gave a thought-provoking talk on what the future can be like with the help of electrical and electronics engineers.

Mr. "Bud" Eldon (1985 IEEE President) introduced the new Division and Region Directors. Benjamin Franklin made his farewell speech, a humorous and emotional occasion for all.

A multi-screen presentation reviewed the IEEE Centennial year—to conclude the program.

President Gowen presided.

1984 LIFE MEMBER FUND COMMITTEE

Julian D. Tebo, Chairman

| | |
|-----------------------|--------------------|
| John G. Brainerd | John C. McPherson |
| Donald G. Fink | Jan A. Rajchman |
| Gordon D. Friedlander | Allan C. Schell |
| Truman S. Gray | Donald B. Sinclair |
| Edwin L. Harder | William W. Terry |
| Joseph F. Keithley | Donald L. Suppers |
| Harry H. Kihn | Staff Secretary |

1983 LIFE MEMBER FUND COMMITTEE

Joseph F. Keithley, Chairman

| | |
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| John G. Brainerd | Jan A. Rajchman |
| Richard W. Damon | Donald B. Sinclair |
| Donald G. Fink | Herbert R. Stewart |
| Truman S. Gray | Julian D. Tebo |
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