

The Life Member Fund Newsletter

Published by the Life Member Fund Committee

April 1982

A Letter from the Chairman

It is a pleasure to take over the chairmanship of the Life Member Fund Committee. First, I want to express appreciation for the efforts of Dr. Edwin L. Harder. He is indeed an innovative person whose interests in older members of IEEE are readily apparent.

Elsewhere in this issue is an outline of many plans for the Centennial year in 1984 - only two years to go! The LM Centennial Fund of \$25,000 will probably amount to close to \$40,000 with interest by 1984.

The Life Member Fund Committee is seriously considering giving \$15,000 for publication of the short version of IEEE history now being co-authored by John D. Ryder and Donald Fink (based on Michal McMahan's longer history book). It should be a beautiful book. I'll keep you informed of the Committee's decision.

We are continuing to send this newsletter to members who are 65 and over. At Edwin Harder's suggestion, IEEE President, Robert E. Larson, has spearheaded a program to increase the involvement of older members in the activities of IEEE. Thelma A. Estrin, IEEE Executive Vice President, has agreed to be the Executive Committee coordinator of the LMF Committee in the development of new programs.

Electro/82 promises to be heavily attended this year in Boston. The details of plans for accommodating Life Members are described on page seven of this issue. From experiences of your colleagues who have attended past conferences, you can be assured a most informative and entertaining three or four days.

Your comments and suggestions are always welcome. I look forward to seeing many of you at Electro.

Sincerely,

Joseph F. Keithley, Chairman
1982 Life Member Fund Committee

Once Again Life Members' Contributions to the Life Member Fund Topped Previous Year

The loyalty of Life Members to IEEE is well founded—year after year. The number of contributors to the Life Member Fund has doubled in the last six years. In 1981, there were 2,221 contributions bringing the total to \$41,341. With dividends and interest, the income for last year rose to \$65,339.

As of January 1, 1982, there were 678 members elevated to Life membership, bringing the total to 9068. Of all Life Members, about one out of four contributed to the Fund, with the average contribution of \$18.61—a slight increase over 1980.

The major projects which gain support from the Life Member Fund are:

- Student Prize Paper Contest;
- Education Medal Support;
- IEEE Centennial Fund;
- LMF Newsletters (March and November);
- Life Member Directory (every other year);
- Life Member Conference Activities;
- Graduate Fellowship Program
in the History of Electrical Technology
(’81-’82/’82-’83);
- Donald G. Fink Prize Paper Award;
- Smithsonian Summer Graduate Program.

1982 LIFE MEMBER FUND COMMITTEE

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28775 Aurora Road, Cleveland, OH 44139

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1981 LIFE MEMBER FUND COMMITTEE

Edwin L. Harder, Chairman

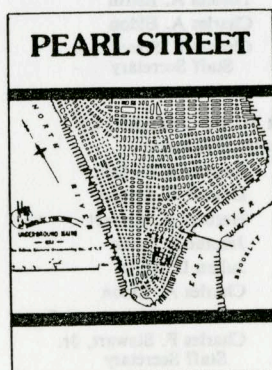
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Update from the IEEE Center for the History of Electrical Engineering

A number of the recent activities of the IEEE's History Center should be of special interest to Life Members. Work continues on the "Survey of Archival and Manuscript Collections in Electrical Science and Technology" (SAMCREST) which has begun with support from the Life Member Fund in the Summer of 1981. A grant from the Fund supported three months of full-time work on the survey by a graduate student in the history of technology working at the Smithsonian Institution and the Library of Congress. David Rhees, of the Department of the History and Sociology of Science at the University of Pennsylvania, compiled a card catalog of important documentary collections related to the history of electrical engineering now held in libraries, archives and other repositories in the United States. This catalog now lists about 800 collections in more than 150 repositories, and it has already proved valuable to researchers, despite the fact that it is still in process and no index has yet been prepared. Rhees also produced a questionnaire to be sent to repositories for updating their catalog entries. This was sent out by the IEEE History Center staff and replies are still being received.

Early in February, 1982, the History Center participated in a commemoration of the 100th anniversary of the first full-scale commercial electric light and power system—Thomas Edison's Pearl Street Station, which began operation in lower Manhattan on September 4, 1882. The commemoration was sponsored by the IEEE Power Engineering Society during its Winter Meeting in New York. The primary event was a special session devoted to Pearl Street and its significance, with lectures by distinguished historians and engineers. The History Center produced a small booklet for the occasion, entitled *Pearl Street, A Centennial Commemoration*. Copies of the booklet, second in the History Center's series, are available for \$2.00 (check or money order payable to IEEE) from the IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. Ask for *Pearl Street*. Some copies of the History Center's first publication, *Lines and Waves*, are still available for \$2.00 from the same address.



Write for
this well-
illustrated
booklet.

Centennial Plans Beginning to Take Shape: Task Force Continues to Build Programs

With John D. Ryder heading the Centennial Task Force and Donald Brereton as the Coordinator, you can look forward to a memorable 1984 program.

The "kick off," according to present plans, should be at the Winter Power Meeting in Dallas in January '84.

A meeting, yet to be developed, is planned during National Engineers Week with our friends of NSPE, which celebrates its 50th anniversary in 1984.

The IEEE New York Section will celebrate the anniversary of the founding of the Institute on May 13, 1984, and of the IRE on May 13, 1912. To be held in New York City, the program has not been worked out.

"IEEE Centennial Day" and Convocation with Electro/84. Highlights: (1) IEEE Awards reception, luncheon and presentations, (2) showing of the new Centennial movie or TV film, (3) reception for about 100 invited Societies and/or Associations, (4) IEEE Centennial Day Convocation with reception, "black tie" dinner; presentation of the Centennial medallion to eminent recipients; Centennial message by IEEE president and a Centennial address by a distinguished IEEE fellow. There also will be some surprises in what promises to be a most memorable occasion.

Our hopes are high for a commemorative postage stamp (possibly a set) produced by the US Post Office.

A Centennial calendar will provide anniversary dates of significant events involving our technology history...and 1984 dates of Centennial activities.

The theme for our Centennial is "A Century of Electrical Progress." This will be used on all kinds of mementos given as gifts or sold to members and prominently displayed on flags, banners, paper weights, mugs, ties, briefcases, book covers for students and the like.

A "Centennial Painting" is contemplated which will be the result of a contest among artists. The approach of confining contestants to engineers, or opening it to everyone, is under study.

As mentioned in a past newsletter, a Centennial history of IEEE is now being written by Dr. Michal McMahon of Philadelphia. A shorter well-illustrated version is being co-authored by John D. Ryder and Donald G. Fink.

Other programs include TV—a series of educational programs on Public Broadcasting Service TV dealing with our technology developments and their impact on society.

Directories of distinguished IEEE members such as past Presidents, Medal of Honor winners and Fellows of the Institute are contemplated.

IEEE Centennial Convocation is planned in October 1984, a capstone event consisting of a series of

Continued on page 3

Centennial Plans

Continued from page 2

meetings at the Franklin Institute, Philadelphia, PA.

Included are a special dinner and Convocation of former Medal of Honor recipients. We are investigating possible satellite coverage by radio and TV at Section meetings in the United States and elsewhere.

We hope all this gives you a good idea of what the Centennial Task Force has been doing thus far in a program that is especially important to Life Members, so responsible for our distinguished heritage.

Ms. Emily Sirjane Retires



General Manager, Eric Herz, makes pin presentation to Emily Sirjane.

On July 7, 1982, Emily Sirjane, Staff Director in charge of Corporate Services, would have been on the IEEE staff for 35 years. She chose, however, to wind down her career at the close of 1981.

On January 4, 1982, the IEEE staff said farewell to this gracious and efficient lady at a wine and cheese reception in the board room at IEEE headquarters.

On the occasion, Eric Herz, IEEE General Manager, said, "Emily Sirjane is undoubtedly the most widely know individual throughout the entire IEEE membership. She personifies willingness to serve, kindness and efficiency. Her dedication to helping various committees and especially to the Board of Directors will be remembered always."

He then presented her with a specially designed replica of the IEEE Fellow emblem—a diamond-studded pin—on behalf of the Institute. In making the presentation, Eric said, "This is a one-of-a-kind pin for a very special person; it will never be duplicated for anyone else." Emily is an Honorary Fellow of IEEE.

Emily's IEEE experience dates back to the IRE and covers broad and varied services to the membership, boards, and committees over the years, in addition to numerous management responsibilities.

A native of Vermont, she resides in Long Island City, N.Y.; but at this time is on vacation in Florida. We hope she is enjoying her favorite pastime—fishing for the big ones.

Life Members wish Emily Sirjane all the best...and many pleasant retired years.

For Life Members only...

Life Member Record Information

Requires Your Help

The form for keeping your records current, used in recent years, has been most successful. It is important that you fill out and return this form *whether or not changes are required*.

A list of technical interest categories is also enclosed.

If you are now actively involved in business, please complete the other side of the form. It is essential for the Business Publications Audit (BPA) of SPEC-TRUM magazine.

Contributions to Life Member Fund

There is space for two other important aspects:

1. If you desire to contribute to the Life Member Fund, you can so indicate right on the front of the form. *Your contribution is tax deductible*. Please make your check payable to IEEE FOUNDATION, Incorporated (LMF).
2. If you are a licensed amateur radio operator, you are encouraged to give your call letters on the *reverse side* of the form. These call letters will be published in the Life Member Directory next year.

A reply envelope is enclosed for return of this valuable information so necessary for IEEE records. Your early response is always appreciated.

To the New Life Member 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.

About Society Membership

An IEEE Life Member with not less than five years of membership in a Society may also be designated a Life Member in that Society. Thus, the LM would receive free of charge all technical periodicals - Transactions, Magazines and Journals - 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.

Continued on page 5

Life Members Got an Exceptional View of the Personal Computer at Midcon/81

Chicago was home base for Midcon/81 and the Hyatt-Regency O'Hare was headquarters for special meetings and events. Life Members who responded to the invitation sent out by Dean Henry A. Setton, Chairman of the Life Member Committee at Midcon, had a great experience.

Life Members were guests of the Board of Directors of Midcon and were welcome to the Conference and all exhibits at the O'Hare Exposition Center located a short distance from O'Hare International Airport.

As usual, complimentary registrations to Life Members were provided. Badges and tickets requested were held for pickup at the Hospitality Suite in the American Room of the Hyatt. The badge gave free entry to exhibits, professional programs, film theatre and all Life Member activities.

The American room served as a meeting place during the entire meeting for Life Members and their wives. They relaxed, visited with fellow members while enjoying coffee and light refreshments from 9 a.m. to 5 p.m. each session day.

Radio Shack Put on a Show

On Wednesday, November 11th, starting at 10:30 in the morning, a special program was presented by two skilled technicians from Radio Shack. Their subject: *Personal Computers*. Robert Milstein and Joseph Kyle-Dipietropaolo gave a lecture-demonstration of some of the latest home computer hardware, software and peripherals. They used conventional telephone to access a great deal of information such as national and international news, weather, sports and much more. For example, they demonstrated keeping your own budget and personal financial information and stock port-

folios, accessed Dow Jones' stock reports—even to requests for "current quotes" on some of the attendees' stocks. They discussed word processing computer power and the use of certain models as teaching aids, with a full line of courseware available.

Life Members inspected the equipment and were especially interested in a "Pocket Computer"—one you could hold in your hand—about the size of a calculator, but far more powerful. It sells for as little as \$230.00. Its size: 6 7/8" x 2 3/4" x 1 1/16". Weight: 6 oz.

We are indebted to Radio Shack for the time of these two knowledgeable gentlemen and suggest that you can get a free demonstration from most any Radio Shack store. We think you will find it fascinating and most informative.

Afterward luncheon was served and then a few comments were made by John Green, Midcon Board of Directors; Howard L. Wolfman, Convention Director, Midcon Board of Directors and IEEE Chicago Section; and Francis X. Timmons, Marketing Director of IEEE and writer of the Life Member Fund Newsletter. The latter reviewed the requirements for IEEE Life Membership and the reasons behind recent inclusion of those who are 65 and older among recipients of the Newsletter and the Life Member Directory.

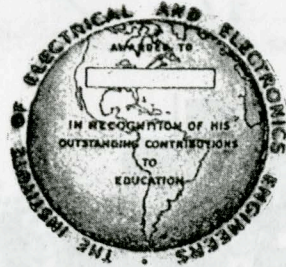
Following luncheon, pictures were taken.

There were 43 Life Members who made advance registrations and another nine who registered in the hospitality suite.

Dr. Setton extends his gratitude to the following for their excellent assistance as Committee Members: Paul E. Jahn, Vice Chairman; F.X. Cox; I.R. Lietzke; Ernest Michaelson; Lowell St. Pierre; R. Orner; and R.T. Thompson.



Principals involved in arrangements and luncheon program were (L. to R.) Paul E. Jahn, Vice Chairman of the LM Committee; Howard L. Wolfman, Convention Director, Board of Directors and IEEE Chicago Section; Sue Kingston, ECI, Inc.; Dr. Henry A. Setton, LM Committee Chairman; Paul Carol, IEEE Chicago Section; and Computer Specialists from Radio Shack - Robert Milstein and Joseph Kyle-Dipietropaolo.



Dr. King-Sun Fu is Winner of the IEEE Education Medal

The 1982 Gold Medal in Education is awarded to Dr. King-Sun Fu. The medal is made possible by a grant from the Life Member Fund. He is currently Goss Distinguished Professor of Engineering and Professor of Electrical Engineering at Purdue University.



The citation reads: *For contributions to engineering education through inspired teaching and research in computer engineering, system theory and pattern recognition.*

He is a Fellow of the Institute of Electrical and Electronics Engineers, a member of the National Academy of Engineering and Academia Sinica, and a Guggenheira Fellow. He received the Herbert N. McCoy Award for contributions to Science in 1976, the Outstanding Paper Award of the IEEE Computer Society in 1977 and the 1981 ASEE Senior Research Award. He is the Vice President for Publications of IEEE Computer Society, and Associate Editor of *IEEE Transactions on Systems, Man and Cybernetics*, *Pattern Recognition*, *Computer Graphics and Image Processing*, *Journal of Cybernetics*, and *Information Sciences*, and a member of the editorial board of the *International Journal of Computer and Information Sciences*. He is the first President of International Association for Pattern Recognition (IAPR). He is author of the books, "*Sequential Methods in Pattern Recognition*" and "*Syntactic Methods in Pattern Recognition*", published by Academic Press in 1968 and 1974, "*Statistical Pattern Classification Using Contextual Information*", published by John Wiley & Sons in 1980, and "*Syntactic Pattern Recognition and Applications*" by Prentice-Hall in 1981, respectively.

Dr. King-Sun Fu received his Ph.D. degree in Electrical Engineering from the University of Illinois, Urbana, in 1959.

President of AAES Resigns

Many of you will recall that the March 1981 issue of this Newsletter gave a report on the first president of the American Association of Engineering Societies (AAES). Robert Frosch has resigned, effective February, 1982. Dr. Frosch was administrator of the National Aeronautics and Space Administration before his stint with the AAES.

We have just learned that Dr. Frosch was elected a staff vice president of General Motors Corp. in charge of all research for the company. As we go to press, a successor to Dr. Frosch has not been named.

Former AIEE President and Honorary IEEE Member Dies

Dr. Elgin B. Robertson, 88, IEEE Director Emeritus and Honorary Member, died on July 29, 1981.

Dr. Robertson was elected to Honorary Membership in 1959. He was one of three IEEE Honorary Members until in 1981 another four were so honored.

Dr. Robertson was President of the American Institute of Electrical Engineers in 1953 and 1954 and IEEE Director Emeritus since 1963. He was a member of the 14-man committee who oversaw the 1963 merger of the AIEE and the Institute of Radio Engineers to form the IEEE.

Dr. Robertson was chairman of the Plastics Manufacturing Company, Dallas, Texas.

The current six IEEE Honorary Members are: Brian D. Josephson, Donald E. Knuth, Wolfgang K.H. Brattain, John M. Bordeen, Walter H. Brattain, and Edwin H. Land.

Life Member Facts

Continued from page 3

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.



Life Members at Midcon/81...

1st Row, Left to Right: Edward Farber, Robert H. Bryan, Earle Wild, Leith Johnston, Louis Mayle, Wesley W. Pendleton, Lowell C. St. Pierre, Francis A. Cox, George Foster, Samuel Spector, Floyd W. Feldman, R.A. Erikson, Robert Miller. *2nd Row, Left to Right:* Meyer Marks, Stephen Bushman, E.H. Shulz, Les LeVesconte, Larry R. Howard, D.N. Sum-

merfield, William E. Russ, E.W. Keranen, Wallace A. Depp, Ralph Orner, Robert T. Thompson. *3rd Row, Left to Right:* George R. Herman, L.J. Weber, Tony Schaudenecker, Max Geishfield, O. Kiltie, Irwin Lietzke, Merton Paddleford, Dr. Matthew Zaret, Hans Nissel, J.F. Dunlap, F.G. Varenhorst, Earle Kent.

Life Members Are Promised a Most Informative and Entertaining Program at Electro/82

"A good-sized turnout is anticipated at Electro/82 in Boston, May 25-27. And Life Members should be well represented," said Edmund H. Povey, Chairman of the Electro Life Member Committee.

As usual, there will be a Life Member Hospitality Suite for registration, or pick-up of badges for those who have advance reservations for all the sessions. Refreshments of coffee and soft drinks can be enjoyed along with all the good talk with old friends. The Sheraton-Boston is home base and the Exeter Room will be the Hospitality Suite.

The Life Member program is scheduled for the Hampton Room and the Life Member Luncheon will be held in sections D, E, and F of the Beacon Room.

The principal speaker on the LM program is Dr. Allen L. Cudworth, Vice President and Director of Research Center, Liberty Mutual Insurance Company, Boston, Massachusetts. He holds a doctorate of science from Harvard School of Public Health, a Masters Degree from M.I.T. and an EE degree from

the University of Alabama. He has distinguished himself in that he played a major part in the development of an electronically controlled prosthesis. This will be the subject of his talk.

Known as the Boston Elbow, it is an example of a practical prosthesis that is controlled by electrical signals sensed on the surface of the amputee's muscles. A history of the development of this prosthesis along with a description of current research on neural control systems will be covered in his talk.

A question and answer session should follow Dr. Cudworth's comments, if he has time, for we understand there are many demands on this prominent individual.

There will be reports from various Life Member Chairmen, a rundown of LM funds, and progress on the plans for the Centennial year in 1984.

If you are in the vicinity of Boston, do yourself a favor and join your fellow Life Members at Electro in May.



IEEE's 50-Foot Exhibit is utilized during Electro, Midcon, Wescon, and Southcon. It is sponsored by TAB, Pub, Field Services and SPECTRUM magazine. In the event you haven't attended any of these exhibits in the last five years, we thought you would like to see how IEEE is represented at these shows which are attended by about 130,000 registrants.

IEEE Board Chooses Two Candidates

Gowen, King Chosen as IEEE 1983 President-Elect Candidates; Eldon, Schell are '83 Executive VP Candidates

For the first time, the Board of Directors of IEEE has chosen two candidates for each of two IEEE offices: 1983 President-Elect and Executive Vice President. The 1983 President-Elect becomes the President in 1984, our Centennial Year; the Executive Vice President will serve during 1983. Previous elections have usually involved single Board-nominated candidates. On occasion, candidates have been nominated by petition, adding to the Board nominations. The Board has responded to IEEE membership requests and surveys supporting a change in the nomination process.

For 1983 President-Elect, Dr. Richard J. Gowen and Dr. Donald D. King were nominated. Dr. Gowen is Vice President and Dean of Engineering, South Dakota School of Mines and Technology, Rapid City, SD. Dr. King is President of the Philips Laboratories Division of North American Philips Corporation, Briarcliff Manor, NY.

For 1983 Executive Vice President, the Board nominated Mr. Charles A. Eldon and Dr. Allan C. Schell, PE. Mr. Eldon is Manager of Capital Equipment at Hewlett-Packard Company, Palo Alto, CA. Dr. Schell is Director of the Electromagnetic Sciences Division,

Rome Air Development Center, Bedford, MA.

Dr. Gowen holds a B.S.E.E. Degree from Rutgers University and an M.S. Degree and Ph.D. in Electrical Engineering from Iowa State University. Prior to joining the South Dakota School of Mines and Technology, he was a research engineer at RCA Laboratories, Princeton, NJ, and Professor and Deputy Head of the Department of Electrical Engineering at the U.S. Air Force Academy. Dr. Gowen introduced the first electrical engineering program at a military academy. He also organized the joint NASA/DOD Space Instrumentation Laboratory providing engineering support for the NASA Space Medical Program, as well as for aerospace hardware manufacturers involved in recent Apollo/Skylab manned space flights.

An IEEE Fellow, Dr. Gowen has served on IEEE Board of Directors. Currently, he is Chairman of Technology Committees Administration for TAB. He is Chairman of the Manpower Task Force of the U.S. Activities Board (USAB) and the IEEE representative to the NRC/Industry Nuclear Power Plant Probabilistic Risk Assessment Steering Committee and the American Association of Engineering Societies Public Affairs Council. Dr. Gowen was formerly Chairman of USAB and a member of the Standards Board. He has served as a member of the IEEE Executive, Finance, and

Continued on page 8

Two Candidates

Continued from page 7

Nominations & Appointments Committees, and the TAB/USAB Operation Committees.

Dr. King, received his B.A. Degree in Engineering Sciences and his Master's Degree and Ph.D. in Physics from Harvard University. Prior to joining North American Philips Corporation, he was Assistant Professor of Applied Physics at Harvard, Director of the Radiation Laboratory at Johns Hopkins University, Vice President of Research at Electronic Communications, Inc., Timonium, MD, and Director of the Electronics Research Laboratory, Aerospace Corporation, El Segundo, CA. His papers include the first analysis of the dielectric line, used for millimeter and optical propagation and the first description of the properties of unequally spaced antenna arrays.

Dr. King is an IEEE Fellow. He has served on TAB, PUB, and Awards Board. He is Chairman of the IEEE Individual Benefits and Services Committee, was Chairman of the Group/Society Awards Committee, and a member of the TAB, Pub., Fellow, Societies, Pensions, and Nominations & Appointments Committees.

Mr. Eldon received his B.S. Degree in Physics and his Masters Degree in Business Administration from Stanford U. Prior to becoming Manager of Capital Equipment at Hewlett-Packard, he held various positions at HP, was President of Ness Pacific, Inc., and was an independent management consultant. He has served on the IEEE Board of Directors and is currently IEEE Treasurer. He has also served TAB, RAB and USAB. "Bud" (as his friends call him) has been Chairman of the IEEE Budget Committee, Finance Committee and Audit Committee, and the Executive, Individual Benefits & Services, and Employee Committees. He was president of what is now called Components, Hybrids, and Manufacturing Technology Society.

Dr. Schell received his B.S.E.E., M.S.E.E., and Sc.D. in Electrical Engineering from M.I.T. He also attended the Technical University of Delft, Holland, as a Fulbright Scholar. Before becoming the Electromagnetic Sciences Division Director at the Rome Air Development Center, Dr. Schell conducted research studies at the Air Force Cambridge Research Laboratories, and was a Visiting Associate Professor at M.I.T. He now serves on the IEEE Board and has also served Tab., PUB, RAB, and USAB. He was a member of the IEEE Audit Committee, Antenna Standards Committee, and TAB Operating Committee. He was Chairman of the IEEE Boston Section and President of the Antennas and Propagation Society.

These elective offices plus various Regional and Technical Directors will be chosen this fall.