

IEEE Student Newsletter

Volume 3, No. 1
October 1974

\$4000 Fortescue Fellowship

The Charles LeGeyt Fortescue Fellowship provides for a one-year award of \$4000 to a full-time postgraduate student in the U.S. or Canada in the field of electrical engineering. Preference is given to applicants about to begin their first year of graduate work.

Selection is based on Graduate Record Examination scores, college transcripts, information in the application and in the letters of recommendation provided in support of the candidate. Applicants should arrange to have the GRE scores sent to the Fellowship Committee by January 15. Applications must be filed to reach the Fellowship Committee by June 15. Copies of the application forms are available at many colleges or may be obtained from Ms. Una Lennon, Staff Secretary of the Awards Board, IEEE Headquarters, 345 East 47th Street, New York, New York 10017.

Barker Fellowship

The ninth annual Joseph W. Barker Fellowship in Engineering will be offered for a one-year period beginning July 1, 1975 by Research Corporation, a foundation for the advancement of science and technology to U.S. engineering students. A \$6000 stipend and a contribution of \$2000 to the Department in which the Fellow is enrolled are being offered.

Eligibility requirements are a baccalaureate degree and clearly formulated plans for advance work leading to a professional career in engineering or engineering administration.

An engineering school may select a single nominee by whatever methods it deems appropriate. Only one nomination will be accepted from any school of engineering regardless of the number and variety of Departments within the school.

The nomination should be accompanied by a resume of the nominee's background, including academic transcripts, and a statement from the nominee giving reasonably clear evidence of plans for a professional career and one or two letters from faculty members giving reasons for the selection.

Requests for more information and all nominations should be directed to Dr. Sam C. Smith, Vice President - Grants, Research Corporation, 405 Lexington Avenue, New York, New York 10017. Nominations must be received no later than February 1, 1975. Selections will be made by April 1, 1975.

Additional Copies

While they last, additional copies of this Newsletter are available to Student Branches wanting extra copies for promotional purposes. The Newsletter or any other supplies can be ordered from Bob Asdal, Manager, Student Services, at IEEE Headquarters.

Nothing Ventured...

Nothing Gained

Do you have a course that requires writing a paper? Maybe you just have an interest in some technical or nontechnical subject that you always wanted to investigate. Now is the time to consider getting the most mileage out of your efforts, be they for credit or not. You can receive considerable recognition - and possibly cash awards - by entering your work in the IEEE Student Paper Contest for undergraduate students.

Each of IEEE's 10 Regions throughout the world administers its own Contest, and the rules vary somewhat from one Region to another. Check with your Student Branch Counselor about local contests and entry rules or write to Bob Asdal for more information. The top three winning authors from each Region receive cash awards from the Institute's Life Member Fund and their papers are considered for abstracting in the Engineering Index, a world-wide abstracting service.

Branching Out

The IEEE Student program, with over 22,000 Student members, is the largest among all other professional engineering societies. Over 430 IEEE Student Branches in 32 countries around the world have been formed since 1904 to uniquely serve your local needs. During the next three issues of the Newsletter, we'll try to bring you (as reported to us) examples of the outstanding programs and services being carried out by Branches around the world.

Counselors and Student Branch Chairman will be interested to know that the Headquarters Student Services staff hasn't been loafing all summer. Packages of Branch supplies and new promotional material have been sent to each Branch in August. A brand new Speakers, Tours, and Film Directory lists over 800 resources for setting up Branch programs. Other material with a new look include the Operations Guide, Ham Directory, membership brochure, and Bendix poster.

Join the Group

For only \$2.00 each you can join any one or more of IEEE's 31 Groups and Societies to become familiar with the broad cross-section of technical fields within or related to electrical engineering. With each membership, you will receive Transactions of the Group you join. As a G/S member, you will also receive their Newsletter and notices of local meetings. Find out about the latest thinking in your special field of interest and join an IEEE Group or Society this month. Ask your Branch Chairman or Counselor for more information.

SAC to Meet

The Institute's Student Activities Committee is scheduled to meet in Phoenix, Arizona on November 9 - 11. Harry P. Weber, Chairman of the Committee, asks that any ideas or suggestions regarding IEEE Student membership to be considered by the Committee be brought to the attention of the Regional SAC Chairman before the end of the month.

SPECTRUM Highlights

Look into SPECTRUM in October and you'll discover HVDC at Cabora Bassa (what?), some interesting developments in software for microcomputers and what it could be like to be "over 35 and out".

November is a special issue on instrumentation. New trends in instrumentation are emerging which make this month's issue of SPECTRUM particularly useful in viewing user needs, servicing, interfaces, standards, and the impact of microprocessors in design and application of new instruments. Important topics, that may effect your future, can be found in SPECTRUM each month.

Going Metric

Each Student Branch has received a supply of "metric conversion cards" to give to new prospective members. The wallet card also includes a number of electrical factors from the International System of Units. Current IEEE members will receive a card with their dues renewal notice this month.

Call From the Frontier

Student views, experiences and expectations on engineering education are of particular interest to sponsors of the 1975 Frontiers in Education Conference to be held in cooperation with Georgia Institute of Technology on October 20 - 22, 1975 in Atlanta. Papers accepted for inclusion in the program will be published in the Conference Proceedings and distributed at the meeting. A Call for Student Papers has been sent to all Student Branch Counselors. Potential authors should send five copies of a 500 to 750 abstract no later than December 15, 1974 to: Dr. Lawrence P. Grayson, National Institute of Education, Washington, D. C. 20208.

HAM Network Comes Alive

Fred Crossett, IEEE Student Branch Counselor at the University of Arkansas and motivating force behind the IEEE Ham Net, reports that the first session on September 9 met with only moderate success because of the early startup date. Operating on the network frequency (3985KHz - QRN) the University's station W5YM was able to raise several higher grade IEEE members from Kansas, Wisconsin, and Missouri but was unable to make contact with any Student members or Branches. Talking for about an hour and a half, the Arkansas Student Branch members received an enthusiastic reception from the three other IEEE members they found on the air. All expressed an interest in promoting the Network and opening it up to any IEEE member. Future sessions, on the second and fourth Mondays each month at 9:00pm CDT, promise to be time well spent in meeting other students and working professionals on the air. Tune in!

On Conferring

Attending a Conference can be an important benefit of IEEE membership. Special Student Conferences, organized on a Regional or local basis, can be particularly beneficial. Interested Branches should write to Bob Asdal, Manager, Student Services for the new guide, How to Organize a Student Conference.

New Bendix Deadline

Proposals for the 1974 Vincent Bendix Award Competition must be received by November 15, a new date established by the Student Activities Committee.

Cash awards of up to \$500 are again being offered to fund imaginative Student Branch projects likely to contribute to a student's professional development and the strength of the IEEE Student program.

"Great Lofty Ideas" can happen by beginning work now on a 6 page Bendix Award proposal. Check out the many project possibilities with your IEEE Student Branch Counselor and Student Branch Chairman. Look for a Bendix poster on your campus or write to Bob Asdal for more details.

Happy Anniversary

IEEE membership runs on a calendar year basis: January 1 to December 31. If you joined us before September 1974, you will be receiving your "Happy Anniversary" letter this month (someone, it has been reported, also stuck in your bill for 1975 membership dues).

We appreciate your IEEE membership and look forward to being of service in the year ahead.

In Service to Society

"Engineering in Service to Society" was the theme of a workshop held August 26-27 by the IEEE Committee on Social Implications of Technology. Dean Truxal of SUNY at Stony Brook offered the keynote address covering educational programs relating to an engineer's social influences and responsibilities. Twenty-five other attendees presented papers on new educational programs designed with Social Implications of Technology in mind.

Proceedings of the Conference will be available in November from IEEE: \$10 for non-members, \$7.50 for members in North America, and \$5 for members outside North America. Use Order Code #74-CHO-946 7 C-SIT, and write to SPSU, IEEE, 445 Hoes Lane, Piscataway, N. J. 08854



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The Editor welcomes contributions from Student Branches, Student Members, IEEE Organizational units, and other sources. Editor: Robert K. Asdal.

Upcoming Conferences and Meetings

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| October 5 | - Region 1 Upper New York State meeting of Counselors and Student Branch Chairmen, State University of New York at Canton. |
| October 12 | - Region 2 Student Activities Committee meeting for Counselors and Student Branch Chairmen, Pittsburgh Holiday Inn. |
| October 16 | - Region 4 Student Activities meeting for Counselors and Student Branch Chairmen at the National Electronics Conference, Regency Hyatt O'Hare, Chicago. |
| October 19 | - Region 1 Metropolitan Student Council meeting, Polytechnic Institute of New York. |
| October 29-31 | - NEREM, Boston. "What has IEEE done for me lately" - a special program on October 29. |
| November 6-8 | - Canadian Communications & Power Conference, Queen Elizabeth Hotel, Student Activities Committee meeting, November 7. |
| November 9-11 | - Institute Student Activities Committee meeting at the University of Arizona, Tempe |