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Jim Beauchamp is Director of the New Jersey office. He holds an MBA from American University and a BSEE Degree from Johns Hopkins University. Prior to joining Engineering Career Associates, Jim was Account Executive, Federal Programs for Amdahl Corporation. Earlier, he was Senior Account Manager for IBM and Field Engineer with Leeds and Northrop Company.



Ed Kaiserian is Associate Director of the New Jersey office. He holds a BS Degree in Mechanical Engineering from Drexel University. Prior to joining Engineering Career Associates, Ed served as Project Manager for Orba Corporation. Earlier, he served as Field Engineer/Supervisor with Bethlehem Steel Corporation and Manufacturing Engineer with Westinghouse.



Walt Talbot is Associate Director of the New Jersey office. He holds an MBA from Fairleigh Dickinson University and a BS Degree in Mechanical Engineering from Lehigh University. Prior to joining Engineering Career Associates, Walt served as Sales Manager for Ingersoll-Rand. Earlier, he served as Engineering Product Specialist for Atlas Copco.

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The IEEE

Newsletter

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It is not necessary to inform the North Jersey Section when you change your mailing address. The NEWSLETTER and other section mailings use a list provided by IEEE's national headquarters in New York. This means the Section has no need to maintain a mailing list or addressing plates. Section membership records are changed when Headquarters notifies us.

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All Pass Sections: Filter Building Blocks

As an IEEE Centennial event, the North Jersey Chapter of the Systems, Man and Cybernetics (SMC) Society is joining the New Jersey Coast Chapter of the Circuits and Systems/Control Society and the Princeton Chapter of the Circuits and Systems Society in presenting a December 6, 1984 talk on "All Pass Section As Building Blocks For Digital And Switched Capacitance Filters" by Distinguished CAS Society Lecturer Professor Bede Liu of Princeton University.

About The Talk

- This talk:
- (1) Describes a recursive digital filter structure using all pass sections that are suitable for realizing high Q filters,
 - (2) Discusses the design problem,
 - (3) Shows these filters are computationally efficient, and have low passband sensitivity and low quantization noise,
 - (4) Illustrates their use in decimation and interpolation, and
 - (5) Repeats the above for switch capacitance filters.

About The Speaker—

Bede Liu (S '55, M '62, F '72), is a Professor of Electrical Engineering and Computer Science at Princeton University. Born in Shanghai, China, he holds a BSEE (1954) degree from the National Taiwan University, and a MEE (1956) degree and DEE (1960) degree from the Polytechnic

Institute of Brooklyn. Prior to joining the Princeton Faculty in 1962, he had been with Bell Laboratories, Allen B. DuMont Laboratory, and Western Electric Company. During 1970-71, he was a Visiting Professor at the National Taiwan University and at the University of California at Berkeley. He is currently an Advisory Professor in the Electronic Engineering Department of Shanghai Jiao Tong University.

He served on the ADCOM of the Acoustics, Speech, and Signal Processing Society (1978-1980), the ADCOM of the Circuits and Systems Society (1978-1980), and the TAB Meeting Committee (1979-1981). He was the Vice President (1979), and the President (1982) of the Circuit and Systems Society. He is currently the Division 1 Director.

He edited the research volume "Digital Filters and the Fast Fourier Transform" (DHR, 1975) and coauthored the senior level textbook "Digital Signal Processing: theory, design, and implementation" (Wiley, 1976).

Time: 6-7:30 PM, Thursday, December 6, 1984.
Place: Monmouth College, Woodrow Wilson Hall, Room 208, West Long Branch, N.J.
After Meeting Dinner: 7:30 PM, Squire's Pub, West Long Branch. For Dinner Reservation call Ben Ashjari (201) 981-3528, Shah Shokoohi (201) 949-1483, Paul Fleischer (201) 949-6668, David Daut (201) 932-4280.

NJ PACE Meetings

Monthly meetings of the North Jersey PACE Committee will be held at the ITT Tower Lobby, 500 Washington Avenue, Nutley, N.J. at 8 PM on the second Wednesday of every month. Free refreshments will be offered to all.

There are many active hot PACE Projects funded by IEEE's USAB from which you benefit. Here's your chance to learn about them and give your input!

Call Maitland McLarin, PACE Chairman at (201) 335-6847 for additional information.

We Need Your Help!

Eugene Niemiec, North Jersey Section Chairman, has issued a "People Call" for IEEE section members to help fulfill two important functions. The Section needs a Student Activities Chairman and an Ad Hoc Chairman for the Reliability Chapter.

Student Activities Chairman Wanted

The Section requires a member to head up the Student Activities Committee to coordinate the operation of each Student Branch in the Section and act as liaison with the Metropolitan Student Council. This is a great opportunity to work with the newer members of the Section and the electrical engineering profession.

Reliable Reliability People Wanted

Reactivation of the North Jersey Chapter of the Reliability Society will be the key function of the new Reliability Chairman. This formerly very active group can again become a vital part of the North Jersey Section. All it needs is a member to step forward to start the drive to reorganize. There's money in the budget and help from the Section officers to anyone willing to serve.

Suggestions Welcome

If you can serve in either position listed above, or know someone who might be interested, please contact Eugene Niemiec, Section Chairman, 66 Skytop Road, Cedar Grove, N.J. 07009, (201) 239-4389.

Student Activities
By STELLA LAWRENCE

METROPOLITAN STUDENT COUNCIL

The Metropolitan Student Council has planned a very interesting program of activities for the Fall Semester and hopes that all Student Members will participate in as many activities as possible.

The Council plans to hold monthly meetings the first Saturday of Every Month at a college in the Metropolitan Area. If you wish your interests to be best served, if you wish the Council activities to be truly representative of your needs, make sure that your Branch sends delegates to the Council meetings. You could even serve as a delegate yourself! Any IEEE Student Member is eligible to be a Branch Delegate to the Metropolitan Student Council. You will find it a truly worthwhile experience!

For further information and the exact date and location of the MSC meetings write to the New York Section Student Activities Chairman, Edward Farkas, 151-06 85 Drive, Briarwood, N.Y. 11432, or call (212) 643-4363 (B), (212) 297-7498 (H).

ANNUAL STUDENT PRIZE PAPER CONTEST

Each year METSAC hosts the Metropolitan Student Council Student Prize Paper Contest. All schools in the metropolitan area with Student Branches of the IEEE are eligible.

The papers are submitted in writing and selected finalists present their papers orally in a contest which is held on Student Activities Day. For the 1983-84 academic year, the contest was held on Sunday, April 15th on the beautiful campus of Trenton State College in conjunction with the Ninth Trenton Computer Festival.

The papers should cover technical and engineering aspects of a subject reasonably within or related to the areas with which the IEEE is concerned, and with which the author is familiar, whether from his courses, his hobbies, or his summer work. The paper need not necessarily be original in engineering content, but should be original in treatment and concise in coverage of the author's contribution to that subject.

All contestants must be members, in good standing of the IEEE.

The prizes in the 1984 contest were: First Prize \$250, Second Prize \$150, Third Prize \$100, Fourth Prize \$50.

The best paper in each school will also win an award of \$25.

REGION 1 PRIZE PAPER CONTEST

The Region 1 Prize Paper Contest will be held during ELECTRO/85.

Last year the Region 1 Prizes were: First Prize \$2,500, Second Prize \$500, Third Prize \$300, Fourth Prize \$100.

The tentative deadlines for the Regional contest are: 1. Area contest papers to be submitted by March 29, 1985, 2. Six copies of four winning papers received by April 8, 1985, 3. Regional contest to be held Tuesday, April 23, 1985.

Papers to be submitted to Dr. Charles Rubenstein, Region 1, Student Activities Chairman, Department of Electrical Technology, Bramson ORT Technical Institute, 44 East 23rd Street, New York, N.Y. 10010, (212) 677-7420.

FORTESCUE FELLOWSHIP

Deadline: January 15, 1985

The Charles LeGeyt Fortescue Fellowship award is generally made to a full-time postgraduate student in electrical engineering. Preference is given to applicants about to begin their first year of graduate work. The recipient will be chosen on the basis of the Graduate Record Examination scores, transcripts covering college courses, and the information in the application and letters of recommendation.

The proposed work must be at an engineering school of recognized standing in the U.S. or Canada, and the student must have received his or her bachelor's degree by the time work under the fellowship would begin.

Applications should be filed on the proper forms so that they reach the Fellowship Committee by January 15th. Application forms are available at many colleges or may be obtained from the Staff Secretary of the (IEEE) Awards Board.

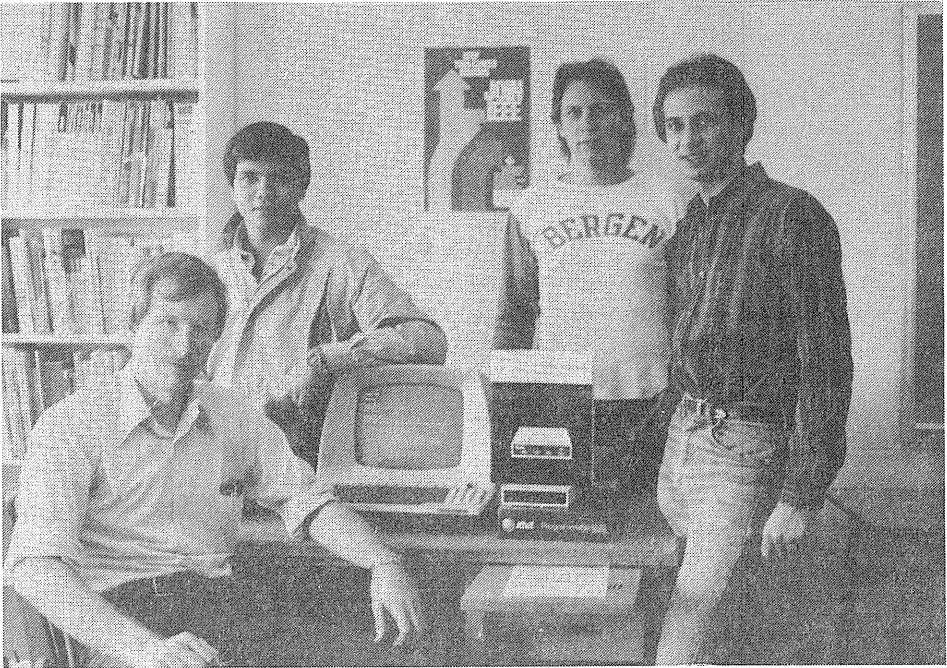
The fellowship, administered by IEEE was established in 1939 as a memorial to Charles Fortescue in recognition of his valuable contributions to the power industry. It is funded by the Westinghouse Electric Corporation, with which Dr. Fortescue was associated throughout his professional career.

Managing New Ventures
In A Corporation

"Managing New Ventures In A Corporate Environment" is the title of the January 29, 1985 meeting of the New York/North Jersey Chapter of the IEEE Engineering Management Society. Aristides C. Fronistas will be the speaker.

About The Talk

Corporate new ventures provide a path for the development of strategically important new business opportunities. Factors for the success of such ventures include strong customer orientation, high product quality, and simultaneous loose-tight control. The new AT&T is committed to the successful development of its new ventures.



NJIT Students Thank AT&T

The New Jersey Institute of Technology Student Section would like to express their sincere thanks and appreciation to AT&T and Mr. Larry Reiher of the Consumer Products Division for their generous donation of the new AT&T model 4000, 1200-BAUD computer modem.

The 1200-BAUD rate, along with the built-in functions of the model 4000 have provided for ease of operation with much improved computer access and efficiency.

The donation of the new modem came as a result of the request made by the NJIT Student Section in the September, 1984 Newsletter. The request was made for help with the overloaded computer system at NJIT.

The modem is currently being used in conjunction with an ADM-5 terminal which was previously donated by the North Jersey Section.

Dues Due

It's time to renew your IEEE membership for 1985. You should have received your membership renewal notice so take care of it now.

As an IEEE member, you qualify for membership in its 33 technical Societies. Society membership will give you ready access to state-of-the-art meetings, conferences and publications in your technical areas of interest. You will have the opportunity to participate in technical activities and meet other members in your industry. At least one periodical is included with your Society fee.

Societies

- Acoustics, Speech and Signal Processing
- Aerospace and Electronic Systems
- Antennas and Propagation
- Broadcast Technology
- Circuits and Systems
- Communications
- Components, Hybrids and Manufacturing Technology
- Computer
- Consumer Electronics
- Control Systems
- Education
- Electrical Insulation
- Electromagnetic Compatibility
- Electron Devices
- Engineering Management
- Engineering in Medicine and Biology
- Geoscience and Remote Sensing
- Industrial Electronics
- Industry Applications
- Information Theory
- Instrumentation and Measurement
- Magnetics
- Microwave Theory and Techniques
- Nuclear and Plasma Sciences
- Oceanic Engineering
- Power Engineering
- Professional Communications
- Quantum Electronics and Applications
- Reliability
- Social Implications of Technology
- Sonics and Ultrasonics
- Systems, Man, and Cybernetics
- Vehicular Technology

Take this opportunity to learn new concepts, new techniques and new fields of interest by adding one or more Society memberships to your basic IEEE membership.

For information and an application, contact Don Weinstein, Kulite Semiconductor, 1039 Hoyt Avenue, Ridgefield, N.J. 07657 (201) 945-3000.