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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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1973-1974

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Reduced Rate Tickets For INTERCON 74

The 1974 IEEE International Convention will be held at the Statler Hilton Hotel and the New York Colosseum in New York City from March 26 to March 29, 1974. A limited number of tickets for this important event have been made available to Newsletter readers at the special reduced rate of $1.00 each (at the Convention, the registration fee will be $5.00 for IEEE members and $6.00 for non-IEEE members). These reduced fee registrations can be obtained by writing to Dr. H. J. Perlis, Newark College of Engineering, 323 High Street, Newark, N.J. 07102. Please include your name, company affiliation, address, a check for the number of tickets desired and a stamped, self-addressed envelope.

Engineer's & Social Values

For the second consecutive year, the IEEE Committee on Social Implications of Technology (C-SIT) will hold two Open Forums on Monday, March 25 at INTERCON '74. IEEE members may offer prepared viewpoints on any topic covered by the titles: "Engineers and Social Values" (a.m.) and "Energy and Social Values" (p.m.) Several invitations to contribute have already been accepted. Substantial time will be allotted to open discussion. Anyone wishing to speak should contact Joseph S. Kaufman, 8 Prospect Place, Matawan, NJ 07747; office phone: 201/949-5241 and send a 200-word abstract. No other written text will be required.

P&I Annual Meeting

The 2nd Annual Dinner Meeting of the North Jersey Chapter of the Power Engineering Society honoring past chairmen will be held Thursday, March 14th. At the meeting, Engineering Aspects of Modern Motion Picture Production will be discussed by Dr. Mauro Zambuto of NCE. Title of Dr. Zambuto's talk is "A Cast of Thousands in Glorious Color-But the Stadium is Made of Paper."

Time:
Thursday, March 14, 1974, Cocktail Hour (Dutch Treat) 6:00 P.M., Dinner 7:00 P.M.

Place:
Rock Spring Inn, West Orange, N.J.

Reservations:
To be made by March 10 to K. J. Oexle, Jersey Central Power and Light Co., Madison Ave., Morristown N.J. 07960

Price:
Dinner & Gratuities $5.50

Eta Kappa Nu Award

The 38th Annual Eta Kappa Nu Award Dinner will be held in conjunction with INTERCON in the Gold Ballroom of the Statler Hilton Hotel on Monday, March 25, 1974 (Cocktails at 5:30 and Dinner at 6:30 PM). This year's award recipient is John T. LaMacchia of Bell Labs, Indianapolis with Honorable Mention Awards being presented to Gerald K. Beckmann and Douglas C. Bossen of IBM and Leonard J. Forsy of Bell Labs, Holmdel. Tickets are $12 with students at half-price. For tickets please contact Mr. Edward V. Cardelli, American Electric Power Service Corporation, 2 Broadway, New York, N.Y. 10004.
GEMB Meeting Notice

**Time:**
Wednesday, March 13, 1974-Time: 7:30 PM

**Place:**
Rockefeller University, South Laboratory, Room 204
66th Street and York Avenue, New York City

**Subject:**
OLFACTORY PHYSIOLOGY APPROACHED BY MINICOMPUTER

**Speaker:**
Dr. Robert J. O’Connell, Assistant Professor, Rockefeller University

**Pre-meeting Dinner:**
Tower Cafeteria, Rockefeller University
64th Street and York Avenue, NYC
6:00 PM

Multitrack Recording

The Magnetics Chapter of the Princeton Section will hold a meeting at 8 P.M. on March 13, 1974. The discussion topic of the meeting is “High Density Multitrack Recording,” with Mr. J.S. Griffin, speaker, from RCA Government Communications Systems, Camden, N.J.

**Time:**
Wednesday, March 13, 1974, 8:00 P.M.

**Place:**
Engineering Building, Room B112, Rutgers University, Univ. Hgts. Campus, Piscataway, NJ.

**Pre-Meeting Dinner:**
6:00 P.M., Alumni-Faculty Club, 199 College Ave., New Brunswick, N.J. For reservations call Mrs. Connie Zylman, Dept. of Elec. Eng., Rutgers Univ., (201) 932-2577.

Cable Television

The New York, North Jersey, and Long Island Joint Chapter of the Instrumentation and Measurements Group will sponsor a visit to Thomas A. Edison’s West Orange Laboratory on Saturday, April 27, at 9:30 A.M.

The New York, North Jersey, and Long Island Joint Chapter of the Instrumentation and Measurements Group will hold a meeting at 8 P.M. on March 13, 1974. The discussion topic of the meeting is “High Density Multitrack Recording,” with Mr. J.S. Griffin, speaker, from RCA Government Communications Systems, Camden, N.J.

Mr. Robert V. C. Dickinson, Consulting Engineer will present the discussion centering on the general areas of (1) background material on CATV systems and the current and projected requirement for two way transmission, (2) the methods for and problems involved in two way transmission, (3) a summary of current two way plans and their operation, (4) some thoughts upon the future.

Mr. Dickinson has been a consultant in the field of Cable Television and Broadcasting for the past three years and is presently the President of ECom Corporation, a cable TV and Broadcasting development and manufacturing group. Mr. Dickinson holds an ME degree from Stevens Institute of Technology, was a Navy Pilot, and has worked in the communications field for the past 25 years.

For further information on the meeting call: in New York City, Mr. R. Grossberg (212) 460-4020 or in New Jersey, Mr. D. Roerty (201) 465-2295

Further details will appear in the April issue.

Tour Of Edison Lab

The New York, North Jersey, and Long Island Joint Chapter of the Instrumentation and Measurements Group will sponsor a visit to Thomas A. Edison’s West Orange Laboratory on Saturday, April 27, at 9:30 A.M. The laboratory in which Edison worked for the last 44 years of his life is now designated a national historic site.

Out of West Orange came the motion picture camera, vastly improved phonographs, both silent and sound movies, the nickel iron battery and hundreds of other inventions. Edison’s record of 1,093 patents has still to be surpassed.

For further information contact:
Mr. John J. Dietz (201) 756-1000 x 442

REGISTRATION: TOUR OF THE EDISON LABORATORY

Mail to:
Mr. John J. Dietz
Edison Electronics Division
McGraw Edison Company
Two Babcock Place
West Orange, N.J., 07051

NAME (Print ____________________________
FIRM ____________________________
BUS. ADDRESS ____________________________
BUS. PHONE ____________________________

Met Opera & Tour

The officials of the Metropolitan Opera House have again graciously consented to be the host of members of the IEEE and their wives at a backstage tour of their facilities.

The tours have been arranged for Saturday mornings, March 30 and April 6, 1974 at 10:30 a.m.

In conjunction with the tour, a very limited block of tickets has again been reserved for our group for the matinee performances of Madame Butterfly on March 30 and L’Elisir D’Amore on April 6. Pairs (only) of tickets are $33.00 and check or money order made out to P&I Division, New York Section, IEEE must be received by March 22. Because of the short supply of tickets, requests must necessarily be limited to one pair.

Requests for reservations for the tour and/or the Opera performance will be handled on a first come - first served basis. And, please, NO PHONE CALLS. Only those requests accompanied by a STAMPED, SELF-ADDRESSED ENVELOPE can be honored or acknowledged.

Please fill in completely the form below:

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<th>Name</th>
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<tbody>
<tr>
<td>Miss Evelyn Zarro</td>
<td>80 Park Place</td>
<td>7339(M35)</td>
<td>Newark, N.J. 07101</td>
</tr>
</tbody>
</table>

For backstage tour of the Metropolitan Opera House, please send to:

Mail to:
Miss Evelyn Zarro
80 Park Place
Room 7339 (M35)
Newark, N.J. 07101

Priorities for requests for all tickets will be assigned in order of receipt of request, regardless of date selected. No requests can be honored or acknowledged without a STAMPED SELF-ADDRESS ENVELOPE.

□ March 30 only, □ March 30 or April 6, □ April 6 only

**Opera**

Enclosed is my check or money order for $33.00 made out to P&I Division, New York Section, IEEE for two tickets for the Saturday matinee opera performance on

□ March 30 only, □ March 30 or April 6, □ April 6 only

Priorities for requests for all tickets will be assigned in order of receipt of request, regardless of date selected. No requests can be honored or acknowledged without a STAMPED SELF-ADDRESS ENVELOPE.
Lithography for MOS

The March 14th meeting of the IEEE Electron Device Group, New York Metropolitan Chapter, will hear R.F.W. Pease of Bell Telephone Laboratories, Murray Hill, N.J. discuss "Electron Lithography for MOS Circuits."

About the Talk

With electron lithography it is possible to make structures with dimensions smaller than can be made photolithographically. MOS circuits made with finer dimensions have a number of advantages. One is the obvious advantage of more circuits per wafer; another advantage is the improved speed and power delay product of circuits made with finer dimensions. There are also pitfalls such as punch-through underneath short gates and increased power dissipation density. We will discuss these advantages and pitfalls and will also describe some MOS circuits, such as simple inverter circuits and a 1024-bit RAM made in different sizes to demonstrate the advantages of the smaller dimensions.

About the Speaker

Mr. Pease received his B.A., M.A., and Ph.D. from Cambridge University. In 1964 he joined the faculty at the University of California at Berkeley and worked on Scanning electron microscopy. In 1967 he went to Bell Laboratories to work on digital encoding of television and Picture-phone signals. Since 1971 he has worked on making integrated circuits using electron lithography.

Time: 8:00 P.M., Thursday March 14, 1974
Place: ITT Labs, Nutley, N.J.

MTT Bids for National Meet

The North Jersey Section MTT Chapter is presently submitting a joint bid for the 1976 National GMMTT Symposium in conjunction with the Jersey Coast Long Island/ NY, & Philadelphia chapters. The combined membership thus represented totals over 750 members.

So those wishing to participate in the National Symposium can do so by contacting Mr. Bernard DiMarinis at (201) 284-2074 (ITT, Nutley).
Moving mountains has never been a really cost-effective concept, even in ancient times. In the absence of an unlikely miracle, Mohammed had to go to the mountain instead of vice versa.

There's a whole mountain of exciting new electronics hardware and software ready for introduction this Spring. With energy in short supply, however, the innovators just can't bring the mountain to you this season.

Instead, nearly 300 companies and a couple of hundred first-rate engineering authors are building their mountain in a central location — the island of Manhattan — where all of you can see it and hear it all at once.

The name of the event is IEEE Intercon/74, and it's a "getting down to business" high-technology show and conference.

It's got an outstanding 40-session program that tells you how to put the newest technology to work. Plus special workshops and short-courses.

It's got a mountain of brand-new components, devices, instrument systems, and EDP equipment ready for your on-line evaluation.

With severe restraints on sales travel, it just makes good sense to bring everything that's new and significant into one accessible place for thousands of professional engineers — by public transportation.

As a matter of fact, it's clearly in line with national policy to do so. And it is an excellent way to "energize" the surging electronics economy that's coming in the months ahead.

This is going to be an outstanding show and program. Maybe the best Intercon in several years. It's in your own best interest to "come to the mountain" and take home a wealth of practical new ideas to your organization.

Plan now to get your full share at Intercon in New York.