Newsletter

Next Month's Newsletter

The April issue of the NEWSLETTER will be a joint New Jersey, New York and Long Island publication. This venture is purely for factually determining some of the advantages and difficulties of this combination and does not commit the NEWSLETTER or the section to any loss of autonomy. Only the front page of the April issue will be individualized for the New Jersey Section.

> FOR SPRING LECTURE SERIES DETAILS CALL FRANK GIALANELLA 966-2459

MEETINGS CALENDAR

Wednesday, March 8 NY Group in Engineering in Medicine and Biology–Pattern Recognition in the Life Sciences, Dr. Murray Eden, Speaker. Rockefeller University, South Lab, Room 204, York Ave. and 68th St., NYC, 8:00 P.M. Pre-Meeting Dinner: Tower Building Cafeteria, Rockefeller University, 6:00 P.M.

Wednesday, March 15

Power and Industrial Division-Finding Sites for Nuclear Power Plants. Speakers: Mr. R.R. Boyle and others. Consolidated Edison Company (19th Floor Auditorium), 4 Irving Place, New York, 6:30 P.M. Refreshments, 6:00 P.M.

Saturdays, March 18 and 25

P&I Division-Backstage at the Met Tour, Saturday mornings, March 18 and 25; 10:30. Tuesday, March 21

Power Engineering Society-Critical Loads and the Factors Involved in the Selection and Application of Automatic Transfer Switches, Mr. Rene Castenschiold, Speaker. Automatic Switch Company, Hanover Road, Florham Park, N. J., 7:30 P.M.

Wednesday, March 22

Aerospace and Electronic Systems Society—The Care and Feeding of Nonsense, The Honorable Robert A. Frosch, Assistant Secretary of the Navy, Speaker. The New York Hilton, Mercury Ballroom, 53rd Street and Avenue of the Americas, Rockefeller Center, NYC, 12:00 Noon.

Wednesday, March 22

Reliability Group-Specifying Hi-Rel Devices for Military Applications, Stanley Grubman, Speaker. Singer, Kearfott Division, Research Center Conference Rooms 1-A and 1-B (Plt. 3), 1150 McBride Ave., Little Falls, N.J., 8:00 P.M. Pre-Meeting Dinner: Town Tavern, 10 Van Ness Ave., Little Falls, N. J., 6:00 P.M.

Tuesday, March 28

Communications Technology and Computer Group-Human Factors in Communications, Dr. Tapas K. Sen, Speaker. Room 1H009, Bell Telephone Laboratories, Whippany, N.J., 8:00 P.M. Pre-Meeting Dinner: Rod's 1890 Ranch House Restaurant, Convent Station, N. J., 6:00 P.M.

Tuesday, April 18

Metropolitan Chapter of the Instrumentation and Measurement Group-Spring, 1972, Lecture Series, 2nd Floor Conference Room, 30 Evergreen Place, East Orange, N.J., 8:00 to 10:00 P.M. For details see last month's Newsletter.

Wednesday, April 19

Engineering in Medicine and Biology Group-Modern Electrophysiological Measurement Techniques, Ernest Amatnick, Speaker. Rockefeller University, South Lab., Room 204, York Ave. and 68 St., New York City, 8:00 P.M. Pre-Meeting Dinner: Tower Building Cafeteria, Rockefeller University, 6:00 P.M. (Details next month.)

Thursday, April 20

IEEE Computer Society-Structuring Programs for Correct Operation, Prof. Peter J. Denning, Speaker. Room 1H009, Bell Labs at Whippany, 8:00 P.M. (Details next month.) Thursday, April 20

The IEEE Metropolitan New York Group on Electron Devices and the City University of New York Symposium of MOS Devices and Integrated Circuits. CUNY Graduate Center, 33 W. 42nd Street, NYC, 9:00 A.M. to 4:00 P.M.

Saturday, April 22

New York, North Jersey, and Long Island Joint Chapter-Instrumentation & Measurements-Consolidated Edison Company Field Trip. Con Edison Gowanus Station, 27th Street & 3rd Avenue, Brooklyn, N. Y., 10:00 A.M. and 2:00 P.M.

Power Meeting

Mr. Rene Castenschiold, Chief Customer Engineer of the Automatic Switch Company will be the speaker at the fifth meeting of the New Jersey Section of the Power Engineering Society.

The presentation will include a discussion of critical loads and the factors involved in the selection and application of automatic transfer switches. A plant tour will follow the presentation.

Mr. Castenschiold is currently Chairman of the ISA Bus Transfer Switch Subcommittee and member of the IEEE Emergency and Standby Power Systems Subcommittee.

Time: Tuesday, March 21; 7:30 P.M. *Place:* Automatic Switch Company, Hanover Road, Florham Park, N. J.

Important: Call Mr. Frank Gialanella (201) 966-2459 to confirm your attendance.

Human Factors

Human Factors in Communications will be the subject of a talk by Dr. Tapas K. Sen of Bell Telephone Laboratories at the joint meeting of the Communications Technology and Computer Group on March 28.

About the Talk

Human factors engineering is primarily concerned with ways of designing man's technological environment such that it matches human capacities, limitations and preferences. The subject matter of this talk is the applications of human factors engineering in today's communication systems. Human factors problems associated with telecommunication will be dis-

APPLICATION ENGINEER FOR FERRITE DEVICES

Must be familiar with application of ferrite materials in electronic devices. Must be materials oriented and know basic magnetic measurements. Design experience required in some devices, such as transformers, inductors, filters, antennas and recording heads.

Location: Greater New York Area

Send resume to Newsletter P. O. Box 111A, Mt. Arlington, N. J. 07856 cussed with particular emphasis on the design of controls and displays, human assessment of transmission quality and man-computer interactions.

About the Speaker

Tapas K. Sen obtained his undergraduate degree in Physical Sciences from Calcutta University and Ph.D. in Psychology from Johns Hopkins University. Since 1963 he has been a member of technical staff at Bell Laboratories, Holmdel, N.J., where he is primarily involved in human factors research concerned with Bell System transmission objectives.

Mr. Sen is a member of the Human Factors Society, and past president of its New York Metropolitan Chapter. He is also a member of the American Psychological Association, and the Psychonomic Society.

Time: Tuesday, March 28; 8:00 P.M. *Place:* Room 1H009, Bell Telephone Laboratories, Whippany, N. J.

Pre-Meeting Dinner: Rod's 1890 Ranch House Restaurant, Convent Station, N.J.; 6:00 P.M.

AES Annual Luncheon

The Aerospace and Electronic Systems Society Annual Luncheon Meeting at the IEEE International Convention will present the Honorable Robert A. Frosch, Assistant Secretary of the Navy, R&D, speaking on "The Care and Feeding of Nonsense."

Time: Wednesday, March 22; 12:00 Noon. *Place:* The New York Hilton, Mercury Ballroom, 53rd Street and Avenue of the Americas, Rockefeller Center, NYC.

TO: Mr. Myron M. Rosenthal Singer Kearfott, Inc. 150 Totowa Road Wayne, N. J. 07470

Please reserve.....tables (seating 10) or.....single seats for me for the Annual Metropolitan New York AES Society Chapter meeting on March 22, 1972. Enclosed is my check for \$.....

Signed

Address

\$8.50 per person

I&M Field Trip

The New York, North Jersey, and Long Island Joint Chapter-Instrumentation & Measurements will sponsor a tour of the instrumentation areas on a Consolidated Edison Company barge mounted, gas turbine generating unit. The field trip will include an inspection of the G.T. Barge and its equipment, a presentation by the G.T. Operating Department on the operation and role played by these units in providing electric power for New York City and a "question & answer" period. The tour will take about two hours.

The Gas Turbine Barges are located at Con Edison's Gowanus Substation; 27th Street and Third Avenue; Brooklyn, New York. Parking is available outside the station. Due to the limited space on board the G.T. Barges, the tour will be restricted to the first 50 applicants and will be divided into two sections, one in the morning and one in the afternoon. Send in your reservation early. You will receive an identification pass as confirmation of your reservation.

Time: Saturday, April 22, 10:00 A.M.– 25 persons; Saturday, April 22, 2:00 P.M. –25 persons.

Place: Con Edison Gowanus Station; 27th Street & 3rd Avenue, Brooklyn, N. Y. *Reservations:* Karl O. Sommer, Consolidated Edison Company of New York, Inc., 4 Irving Place–Room 1301, New York, New York 10003, Phone: 212-460-6176.

All-Day MOS Symposium

A symposium of MOS devices and integrated circuits will be sponsored by the City University of New York and the IEEE Metropolitan New York Group on Electron Devices. Members fee is \$25.00; non-members, \$30.00. Full time students will pay \$5.00. An additional \$5.00 will be charged for registration after April 14.

Time: Thursday, April 20; 9:00 A.M. to 4:00 P.M.

Place: CUNY Graduate Center, 33 W. 42nd Street, NYC.

Checks Payable to: CCNY-EE Dept. Conference.

Mail to: Dr. J. Nadan, CCNY-EE Dept., 140th Street and Convent Ave., New York, N. Y. 10031.

The IEEE Newsletter

Published monthly except June and July by the North Jersey Section of the Institute of Electrical & Electronics Engineers, Inc. Office of Publications: 399 Howard Boulevard, Mount Arlington, N. J. 07856.

Volume 18 March 1972 No. 8

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Newsletter Deadline

Deadline for receipt of material is the 20th of the second month preceding month of publication. All communications concerning the Newsletter including editorial matter, advertising, and mailing, should be addressed to: The NEWSLETTER, c/o Girard Associates, Inc., P. O. Box 111, Mt. Arlington, N. J. 07856. Phone: 398-5524.

Subscription: \$0.75 per year through dues for members; \$1.50 per year for non-members.

Second Class Postage Paid at Mount Arlington, N. J.

REPORT ALL ADDRESS CHANGES TO: Institute of Electrical and Electronics Engineers, Inc., 345 East 47th Street New York, N. Y. 10017

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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Pattern Recognition

Pattern recognition research in biomedicine will be the subject of a talk by Dr. Murray Eden, Professor of Electrical Engineering at MIT, at the March 8 meeting of the Met. N.Y. Chapter of the Group in Engineering in Medicine and Biology.

Since biology and medicine are still largely descriptive sciences, many of their tasks require the recognition of patterns visual or auditory. Pattern recognition research in bio-medicine is being carried out on practical problems as varied as ultrasonic visualization, x-ray image enhancement, cell typing and sensory aids. Dr. Eden is Head of the Cognitive Information Processing Group of the Re-

formation Processing Group of the Research Laboratory of Electronics at MIT. The research of this group is concerned primarily with sensory aids for the blind, pattern recognition and image processing applied to bio-medicine.

Time: Wednesday, March 8; 8:00 P.M. *Place:* Rockefeller University, South Laboratory, Room 204, York Ave. and 68th St., NYC.

Pre-Meeting Dinner: Tower Building Cafeteria, Rockefeller University, 6:00 P.M.

Hi-Rel Passive Devices

The subject at the March Reliability Group Chapter meeting is "Specifying Hi-Rel Devices for Military Applications." The speaker will be Stanley Grubman who is a section chief at the U.S. Army Electronics Command, Fort Monmouth. About the Talk

Established reliability (ER) military specifications for passive devices are now mandatory for use in all military equipment design. A review of general equipment specifications, MIL-STD's on preferred parts and reliability standards which reflect this requirement will be made. Counterpart conventional military specifications on these parts are being systematically superseded. A review of these actions and the specifications involved will be presented. The advantages and additional requirements of the ER specification will be discussed as well as the principal failure modes of these parts and recommended design application practices.

About the Speaker

Stanley Grubman is Chief, Electronics Components Section, Procurement and Production Directorate, U.S. Army Electronics Command, Fort Monmouth, New Jersey. He received a B.E.E. degree from the College of the City of New York in 1949.

He has been employed with the Electronics Command since 1949. For the past ten years, he has been involved with and has had a prime responsibility in the DOD Established Reliability Specification Program on Electronic Parts. He is the principal U.S. Delegate to NATO on Reliability of electronic parts and is the U.S. Army Delegate to NATO on Resistors and Capacitors.

Time: Wednesday, March 22; 8:00 P.M. *Place:* Singer, Kearfott Division, Research Center Conference Rooms 1-A and 1-B (Plt. 3), 1150 McBride Ave., Little Falls, N. J.

Pre-Meeting Dinner: Town Tavern, 10 Van Ness Ave., Little Falls, N.J.; 6:00 P.M. Contact: Stan Cherkasky, 256-4000, Ext. 2937; Vic Kalata, 256-4000, Ext. 2062.

Nuclear Plant Sites

The Power and Industrial Division of the IEEE has planned a general meeting on March 15, 1972. The details for this meeting are as follows:

Topic: "Finding Sites for Nuclear Power Plants."

Speakers: Mr. R. R. Boyle, Systems Planning Fuels & Energy Systems, Westinghouse Electric Corporation, Topic: "Cooling Water Requirements"; From the staff of Ebasco Services, Environmental Consulting Department, Topic: "Environmental Factors in Nuclear Plant Siting"; From the staff of the New York State Atomic and Space Development Authority, Topic: "The Nuclear Plant Site Inventory Program of the New York State Atomic and Space Development Authority."

This meeting will also include an announcement from the Nominating Committee.

Time: Wednesday, March 15; 6:30 P.M. *Place:* Consolidated Edison Company (19th Floor Auditorium), 4 Irving Place, New York, N. Y. *Refreshments:* 6:00 P.M.

Backstage at the Met: Tour and Opera

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.

Tours on Two Saturdays

Tours have been arranged for Saturday Mornings, March 18 and 25, 1972 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 Salome on March 18 and La Fille Du Regiment on March 25. 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 10. Because of the short supply of tickets, requests must necessarily be limited to one pair.

Reservations Required

Please till in completely the form below.

Miss Kathryn Samuels 80 Park Place — Room 8357 Newark, N.J. 07101

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

Name___

Address _____

_____ Phone _____

Tour - 2 tickets for

□ March 18 only □ March 18 or 25 □ March 25 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 18 only □ March 18 or 25 □ March 25 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-addressed envelope.

Student Activities

Annual Student Paper Prize Contest

Now is the time for student members to start on that Prize Paper for the Metropolitan Student Council Prize Paper Contest. Each year the Metropolitan Student Council sponsors a Student Prize Paper Contest. The contest will be on Saturday, April 29, County College of Morris, Route 10, Dover, New Jersey.

Students attending schools in the New York, North Jersey and Long Island Sections of the IEEE with Student Branches of IEEE are eligible.

The prizes to be presented are: First-\$200; Second-\$100; Third-\$75; Fourth -\$50.

A \$25.00 prize will be presented to the author of the paper judged best in each local Student Branch that is a member of the MSC.

Winners of this contest become eligible for the national contest sponsored by the IEEE. In the past three, New York regional winners have won this national contest.

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, either from his courses, his hobbies, his summer work,

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etc. The work need not be original in engineering content but should be original in treatment and concise in coverage of the author's contribution to that subject.

The deadline for submission of papers is 4 P.M., March 15, and should be submitted to the Contest Secretary: Mr. Daniel C. Casellar, General Telephone & Elec. Labs, 208-20 Willets Point Blvd., Bayside, N.Y. 11360, (212) 225-5000, Ext. 327. For further details consult your Branch Counselor.

The program is as follows:

Registration, 12:15, A/S Room 141; Commencement, 12:45; Presentation of Papers, 1:00; Intermission, 2:00; Presentation of Papers, 2:15; Intermission, 3:15, Student Center, Campus Tour, Films; CCM Baseball, Tennis, Dinner and Presentation of Awards, 5:30, Faculty Dining Room.

Members of the Metropolitan Student Council of the Institute of Electrical and Electronics Engineers: Academy of Aeronautics, Bronx Community College, City College of New York, Columbia University, Cooper Union, Fairleigh Dickinson University, Hofstra University, Manhattan College, Newark College of Engineering, New York Institute of Technology, New York University, Polytechnic Institute of Brooklyn, Pratt Institute, RCA Institutes, Richmond College of the C.U.N.Y., Rutgers University, Stevens Institute of Technology, S.U.N.Y. at Stony Brook, S.U.N.Y. at Farmingdale, Union County Technical Institute, Voorhees Technical Institute, County College of Morris.

Help Plan the Future

If you aspire to influence the IEEE you can write letters or talk with your friends in the engineering field. Dr, you may elect to become more active, hence have more effect, by joining a professional group and regularly attending meetings. Eventually, your leadership talent may lead you to seek offices in the professional group.

Or, a select few of you may wish to opt for the editorial staff of the NEWS-LETTER. One new editor is chosen from the editorial staff each year. As editor of the NEWSLETTER you would attend the North Jersey Executive Committee meetings. If you are interested in joining our editorial staff, call Bob McMillan, (201) 645-5467 or (201) 744-6794 (evenings).