

Newsletter

VOTE By May 23!

Deadline for receipt of ballots in the election for 1975-6 officers is May 23. All grades of membership (except students) are entitled to cast their ballot by checking one name for each office on the ballot provided in this month's FEEDBACK CARD.

Sign your name on the ballot where indicated. Your name will be validated when the ballot is received; but before tallying, the FEED-BACK CARD will be separated so that the tellers will have no knowledge of the person(s) you voted for.

Nominees proposed by the Section Nominating Committee are: Chairman — Bob McMillan (1974-5 Vice Chairman); Vice-Chairman -Jim Kampschoer (1974-5 Treasurer); Treasurer — Frank Gialanella (1974-5 Secretary); Secretary - Norm Bleshman (1974-5 Member-At-Large -1); Member-At-Large - 1 - Ken Oexle (currently Power Engineering Chapter Chairman), or John Rausch (currently Member-At-Large -2); and Member-At-Large -2 — Don Bathke (currently Section Membership Chairman), or Al Stolpen (current Special Program Coordinator).



The North Jersey Section Annual Fellows Award Dinner-Dance, held March 1, was a great success. Pictured are the newly-honored Fellows and some Section Officers. BACK ROW: (left to right) Dick Benoit, Regional Director; George D. Rockefeller, Jr.; Aaron D. Wyner; George Elwood Smith; Lou Blackburn, Awards Chairman; Ralph W. Wyndrum, Jr.; Richard T. Denton; Mark R. Barber; and Bob McMillan, Section Vice-Chairman. FRONT ROW: (left to right) Dr. Erhard K. Sittig; George S. Eager; Max Schindler, Section Chairman; John A. Casazza; and Max V. Mathews.

ELECTION the

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SECTION

OFFICERS

see

BALLOT

Control System Chapter Seeks Assistance

The North Jersey Chapter of the Control Systems Society is holding an executive committee organizational and planning meeting on May 14, 1975. All persons interested in assisting in the operations of the Chapter and the planning of future meetings are cordially invited to attend. The meeting will be held at the Hanover Trail Steak House on Route 10 near Route 287 at 7:00 P.M. on Wednesday, May 14.

Time: 7:00 P.M., Wednesday, May

14, 1975.

Place: Hanover Trail Steak House, Rt. 10 (near Rt. 287), Hanover.

Three-Phase Separable Connectors

The final meeting of the year of the North Jersey Section of the Power Engineering Society will be a review and update of the "three phase elbow tests" recently conducted by the Reliability Working Group (RWG) of the ANSI C-119.2 Subcommittee on Separable Insulated Connectors.

The RWG was formed to establish test procedures, test circuits and qualification guidelines for single and three phase load break connectors and to submit the proposed revisions of ANSI C-119.2 to the committee for inclusion in the revised Standard on Separable Insulated Connectors.

The Electric Power Research Institute (EPRI) funded the testing program and the testing has been completed at Federal Pacific, General Electric, and Hydro-Quebec to verify if similar results could be obtained at different laboratories.

Mr. Henry Tachick, manager of Separable Connector Engineering, Protective Equipment Products Department for General Electric, will review the tests and provide an updated report on the three phase tests.

Various manufacturers will be available to answer questions regarding what their companies are currently doing on three phase elbow ratings and any other questions pertaining to underground elbows.

Time: 8:00 P.M., Thursday, May 22, 1975.

Place: Punch Bowl Room, Jersey Central Power & Light Co., Madison Ave. at Punch Bowl Rd., Morristown, N.J.

Refreshments: To follow the presentation and panel discussion.

Dual Mode Filters

The North Jersey Chapter Microwave Theory and Techniques Group will hold a meeting on Thursday, May 22, 1975 at 8:00 P.M. in the ITT Auditorium at 500 Washington Ave., Nutley, N.J. Featured will be Richard V. Synder, V.P. Microwave, Frequency Engineering Labs, speaking on "Design and Applications of Compact, Dual Mode Filters."

This talk will start with a presentation of the basic theory necessary for utilization of a cavity in two or simultaneously resonant more modes. It will continue with a discussion of mode coupling mechanisms for achieving the desired coupling parameters. It will be shown that both maximum and nonminimum phase (elliptic function) structures are achievable. Size, weight, insertion loss, stopband characteristics and spurious responses will be discussed for both tunable and non-tunable filters; comparisons to conventional structures will be made; and a new structure incorporating a tunable dual TE111 filter cascaded with a wide band evanescent mode bandpass filter will be shown to have significantly reduced spurious responses.

Time: 8:00 P.M., Thursday, May 22, 1975.

Place: ITT Auditorium, 500 Washington Ave., Nutley, N.J.

Pre-Meeting Dinner: 6:00 P.M., Copper Hood Restaurant, Park Ave., Lindhurst, N.J.

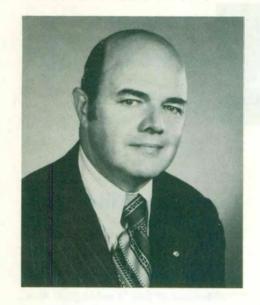
Four Nominated For Region One Director

At the Region One meeting held April 8th, during the IEEE Intercon in New York City, four nominations were made for Region One Director. Candidates are: Joseph O'Grady of Livingston, N.J.; Amos E. Joel, Jr., of Holmdel, N.J.; John O'Neil, Colts Neck, N.J. and Art Rossoff of the Long Island Section.

Additional matters discussed at the meeting included means of avoiding an increase in membership dues.



Past Chairmen of the Power Engineering Society Chapter assembled for their annual dinner meeting and were recognized for their contributions in the development of the Chapter. Past Chairmen in attendance included (left to right): Herb Blaicher, Paul Orehek, Carl Torrell, Ken Oexle, Hank Youngster, Paul Watson and Pete Jackson.



O'Grady Nominated

Joseph G. O'Grady, Manager—Energy Laboratory of the Planning and Research Department of the Public Service Electric and Gas Company, is one of several individuals nominated for Director—Region I, IEEE, for the 1976-77 period.

Mr. O'Grady, in 1969, after serving in several capacities, was named Chairman of the North Jersey Section. In 1970, he served as the first Chairman of the Metropolitan Section's Advisory Council. In 1971, he received the North Jersey Section Award for Distinguished Service; and in 1974, he received the Region I Award.

A long-time active member of IEEE, he is also active in several other national societies, including the National Association of Corrosion Engineers, and the American National Standards Institute. At the present time, he is serving as a member of the Board of Directors of the American Society for Testing and Materials, and is concurrently Treasurer and Chairman of the Finance Committee of the Society. He is also an active member of the New Jersey Committee for Student Guidance.

Energy Symposium

Early registration is required for a Symposium "Energy in the Megalopolis," to be held at the Forestall Laboratories of Princeton, Rt. 1, Princeton, on Saturday afternoon, September 13, 1975. This meeting is sponsored by the P.E.G. Group of the New Jersey Society of Professional Engineers, and they have invited joint participation of all technical engineering societies.

For additional information, contact: Dr. Herbert S. Bennett, 301 Grant Ave., Deal Park, N.J. 07723, Office Phone: 535-2150.

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NY&LI Sections, IEEE



EDUCATIONAL PROGRAM - FALL 1975



REVIEW STUDY GROUPS - FOR PROFESSIONAL ENGINEER EXAMINATIONS

This program is designed to prepare candidates for Professional Engineering License examinations in New York and New Jersey. The material is consistent with the national type of exam used for the New York license examinations. Candidates for Part I and Part II should enroll in Study Group No. 1, No. 2 and No. 3. The New York State Board permits graduates of approved schools to take Parts I and II and qualify for "Engineering in Training." New York exams will be held in November, 1975 and April, 1976. Please note that the fall course will be completed prior to the November exam.

* Due to the early PE exam dates in Fall, 1975, the Committee will split Review Study Group 5 in two parts with a summer break in between. The schedule is as follows:

BASIC ENGINEERING SCIENCES I (IEEE-ASME)

STUDY GROUP NO. 1

Review for Part I & Part II, N.Y. Exam. Review will cover practical applications of Statics, Mechanics of Materials. TUESDAYS, Starting August 5, 1975, 6:30–9:00 P.M., 12 sessions—Room 1425, Con Edison Co., 4 Irving Place Instructor: B. Koplik, Ph.D., P.E., Professor of Mechanical Engineering, Polytechnic Institute of New York

BASIC ENGINEERING SCIENCES II (ASME)

STUDY GROUP NO. 2

Review for Part I & Part II, N.Y. Exam. Review will cover practical applications of Dynamics, Fluid Mechanics, Thermodynamics and Electrical Principles.

MONDAYS, Starting July 14, 1975, 6:30–9:00 P.M., 12 sessions—Room 1425, Con Edison Co., 4 Irving Place Instructor: M. Kurtz, P.E., Consulting Engineer

ENGINEERING ECONOMICS & PRACTICE (IEEE—ASME)

STUDY GROUP NO. 3

Review for Engineering Economics for all three sections of the exam. Review will cover economic comparisons, annual cost, present worth and rate of return. Fixed and operating costs, accounting and cost analysis, depreciation, taxes and valuations will also be reviewed.

THURSDAYS, Starting August 7, 1975, 6:30—9:00 P.M., 12 sessions—Room 1405, Con Edison Co., 4 Irving Place Instructor: R.E. Mendoza, P.E., Public Service Electric & Gas of New Jersey

MECHANICAL ENGINEERING (ASME)

STUDY GROUP NO. 4

Review for Mechanical Engineering Section of Part III, N.Y. Exam. Application of mechanical engineering principles to combustion, gas dynamics, compression shock, nozzle design, steam power plant cycles, psychrometrics, air conditioning heat transfer, nuclear reactors, Mach cone, Kinetics, gyroscope motion, vibratory motion, balancing of machines, compound shafts, design of gears, hydraulics, pumps and fans, stress and deformation of machine elements, etc.

WEDNESDAYS, Starting July 23, 1975, 6:30–9:00 P.M., 14 sessions—Room 1425, Con Edison Co., 4 Irving Place Instructor: M. Kurtz, P.E., Consulting Engineer

* ELECTRICAL ENGINEERING AND APPLICATIONS (IEEE)

STUDY GROUP NO. 5

Review for Electrical Engineering Section of Part III, N.Y. Exam. Electrical Engineering Principles and Applications of: transformers a-c and d-c machines, transmission lines, filters, wave guides, networks, impedance matching, bridges, coupled circuits, resonance, harmonics, transients, three-phase power, amplifiers, electronic circuits, Root locus and Routh Criteria.

WEDNESDAYS, Starting May 21, 1975 for 5 or 6 sessions then resuming on September 10, 1975, 6:30–9:00 P.M., 12 sessions total—Room 1405, Con Edison Co., 4 Irving Place

Instructors: L.E. Burnett, P.E., P.A.S.N.Y.
S. Sonsky, P.E., Queensborough Community College

SEE REGISTRATION FORMS

Volume 21

May 1975

No. 10

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NEWSLETTER STAFF

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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.

SECTION OFFICERS 1974-1975

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M.S. PROGRAM IN COMPUTER SCIENCE

IN MORRIS COUNTY

New Jersey Institute of Technology has traditionally offered a wide variety of graduate programs at its Newark campus for both full-time and part-time students. As new patterns of industrial location and residential concentration have developed in northern New Jersey,

commuting to Newark has become more difficult for some of the potential students of these programs.

In order to better serve a geographically expanding student body, NJIT instituted an off-campus graduate program in computer science at the Drew University campus in Madison in September 1974. Courses are conducted by NJIT faculty. Students successfully completing the program will be awarded the degree, Master of Science in Computer Science.

ADMISSION

Students from a variety of undergraduate backgrounds (e.g. engineering, computer science, physical sciences, mathematics, quantitative social sciences or planning) may be accepted into the Master's Degree program in computer science. In addition to an acceptable undergraduate academic record, entering students are expected to have the following preparation:

- Working knowledge of at least one procedure-oriented language, such as FORTRAN.
- (2) The equivalent of at least one semester of assembly language programming.
- (3) Some undergraduate mathematics beyond calculus.

Students who are otherwise acceptable but who lack some of the required preparation may complete prerequisite work at the Newark campus.

Application for the off-campus program will be made on the Institute's Master's Degree application form. The deadlines for receipt of the application form are August 1 for the fall semester and January 1 for the spring semester. Use the attached postage free card to request an application form.

COURSE OFFERINGS & DEGREE REQUIREMENTS

The minimum requirement for the Master's Degree is nine graduate courses, plus a three-credit Master's Project (CS 700). A student may complete the Master's Project over a period of a semester or two semesters with periodic contact with a faculty adviser. The following is the planned two-year cycle of course offerings at the Drew campus:

Fall Semester 1975

CS 630 – Operating System Design CS 661 – System Simulation One additional course from list on page 4.

Spring Semester 1976

CS 631 – Data Management System Design CS 662 – Model Analysis and Simulation One additional course from list on page 4.

Fall Semester 1976

CS 540 – Fund, of Logic and Automata CS 635 – Computer Programming Languages Math 661 – Mathematical Statistics

Spring Semester 1977

CS 651 – Data Communications CS 665 – Graph Theory One additional course from list on page 4.

Course descriptions may be found in the latest edition of NJIT's graduate catalog.

Additional courses from other departments that may be of interest are listed on page 4. Depending on student interest, other courses might be added to this list.

- NOTES -

To: New Jersey Institute of Technology Graduate Division
 I am interested in NJIT's Morris County graduate program in Computer Science. Please send an application form.
Name
Address City State ZIP
Company
I am interested in individual courses in Computer Science — not a degree. Please send registration information.
Comments, suggestions or questions

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NEW JERSEY INSTITUTE OF TECHNOLOGY 323 HIGH STREET NEWARK, NEW JERSEY 07102 DIVISION

Math 511 - Numerical Methods

Math 630 - Matrix Theory

Math 634 - Abstract Algebra

Math 662 - Statistical Inference

IE 601 – Meas. Methods for Management Systems

IE 623 — Linear Programming

IE 641 – Operations Analysis of Systems

IE 661 - Man-Machine Systems

EM 602 - Management Science

EM 605 - Engineering Reliability

It is possible to complete the degree requirements essentially at the Morris County location if a student's interests and needs are served by the listed offerings. Other students might wish to combine some of the off-campus courses with the more extensive program available at the Newark campus.

NON-DEGREE STUDENTS

Appropriately qualified students who wish to register for individual courses at the Morris County location on a credit or auditor basis will be able to do so.

TUITION AND FEES

Tuition for off-campus course work is currently \$50 per credit (for New Jersey residents). All students are charged a Registration Fee of \$7 and a General Fee of \$8 per semester of registration.

COMPUTER USE

Computer time will be available at the Newark campus on Monday through Thursday evenings and all day on Saturday. If a student wishes to use another computer for any course, it would have to have available the language system which is used in the course. In addition, the Institute is investigating the feasibility of a courier service for student computer programs between the Drew campus and the NJIT computer center. Key punch facilities will be available at the Drew campus.

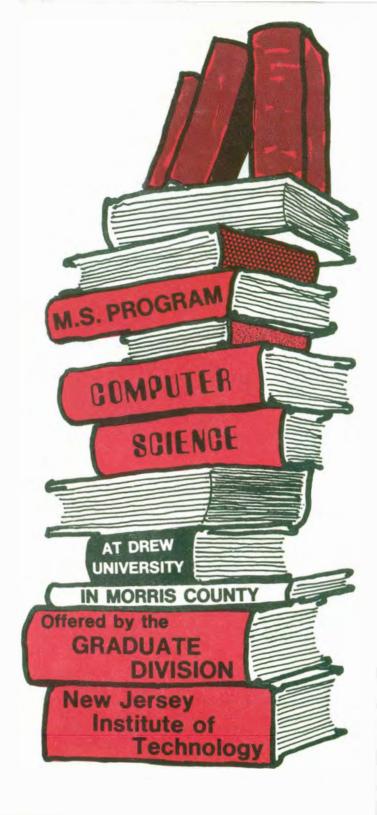
WHERE

The Drew University campus in Madison is conveniently located for access by students living or working in the Greater Morris County area. Parking is readily available, and the Erie-Lackawanna station is nearby. The typical three credit graduate course will meet one evening a week (Monday, Tuesday, Wednesday or Thursday) from 6:30 p.m. to 9:30 p.m. The fall semester will commence on September 2, 1975.

FURTHER INFORMATION

The current Graduate catalog is being made available to the libraries and personnel offices of most companies and to public libraries in the Morris County area. Detailed course descriptions and prerequisites can be found in the Graduate catalog. Individual copies are available on request (allow two weeks for mail delivery). Individual inquiries for information are welcome at the Graduate Division office (645-5160).





PLEASE POST ON BULLETIN BOARD — ALL GROUPS ARE OPEN TO THE PUBLIC

NY&L1 Sections, IEEE



EDUCATIONAL PROGRAM — FALL 1975 SPECIAL STUDY GROUPS



The following study groups will be presented in the Fall starting mid-September:

HIGH VOLTAGE CIRCUIT BREAKER ANALYSIS
FUNDAMENTALS OF COMPUTER LANGUAGE
FUNDAMENTALS OF ELECTRICAL DESIGN II
NUCLEAR POWER PLANT DESIGN
ENERGY CONSERVATION

COMPLETE INFORMATION ON SPECIAL STUDY GROUPS WILL BE PUBLISHED AT A LATER DATE.

REGISTRATION INFORMATION FOR REVIEW STUDY GROUPS

GROUPS # 1,3,5

FEE PER GROUP

\$50 each for Members, IEEE, ASME, NYSSPE; \$60 each for all others

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Phone: (212) 330-4495

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\$50 each for Members, IEEE, ASME, NYSSPE; \$60 each for all others

For further information contact: R. Samuelson, F. Riley or R. Nathan-Phone (212) 566-6940.

Fill out one registration form for each group and mail with payment

Registrations will be accepted at first and second sessions to the limit of room capacity.

REG	ISTRATION FORM	REGIST	RATION FORM
Firm Business Address	Position Phone No.	Firm Business Address	Position Phone No.
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Note: See Registration Information for Checks

Note: See Registration Information for Checks

Employment Feedback

By Max Schindler, Section Chairman
The March FEEDBACK CARD on
unemployment has yielded 25 responses to date. Of those 25 colleagues, 22 are actively looking for a
job and want the IEEE to help; 3
report forced vacation or early

retirement; 5 expect a layoff soon; and 12 consider themselves underemployed.

In view of the worsening sit-

uation, your Section has scheduled an Employment Workshop, consisting of three sessions, on June 5, 12 and 19. It will be held at the NJIT (NCE) Student Center, 323 High St., Newark, from 3:30 to 5:00 P.M. This workshop has been very successful throughout the nation, including the

one we held at NCE in the winter of

1970-71.

If you are planning to participate, mail in the reservation on this month's FEEDBACK CARD as soon as possible. Spread the word amongst your friends. If you need additional information, call your Section Chairman at 334-2027 after 6:00 P.M.

Power Nominations

The Nominating Committee for the Power Engineering Society Chapter of the North Jersey Section has nominated the following candidates for the 1975-1976 term of office:

Chairman: John R. Redmon Vice Chairman: Anne M. Giedlinski

Co-Program Chairman: John A. Langenfeld

Seymour Salowe Secretary: Andrew S. Wildrick Treasurer: Gerald V. Barton

Membership Chairman:

Cristo DeMeis
The election of officers will take
place at the May meeting of the
Chapter. The candidates nominated
have stated their willingness to
carry out the duties of office, and
are members of the P.E.S.Chapter,
N.J. Section.

If there are any other nominations for any of these offices, please submit the names to Mr. Kenneth J. Oexle, Jersey Central Power & Light Co., Madison Ave. at Punch Bowl Rd., Morristown, N.J. 07960.

Before a nomination is made, please ensure the nominee is willing to carry out the duties of office and is a member of the P.E.S. Chapter, North Jersey Section.

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4	5	6	7 2900M2 814 Y 28MA H3 1A	8	9	10
11 Mother's Day	12	13	N.J. Control Systems Organizational Meeting, 7:00 P.M., Hanover Trail Steak House, Rt. 10, Hanover.	15	16	17 Armed Forces Da
18	19	20	21	N.J. PE Society Meeting on Three- Phase Separable Connectors, also Electrons, 8:00 P.M., JCP&L, Morristown. N.J. Microwave Theory & Tech- niques Group Meet-	23	24
25	26	27	28	ing on Dual Mode Filters, 8:00 P.M., ITT, Nutley.	30	31
	Memorial Day (Monday Holiday Bill)	1. 10 10 10 10	The Cart of the Ca		Memorial Day (Traditional)	

Job Outlook: Class of '75

Richard Albers, head of the Placement Office at New Jersey Institute of Technology revealed that the job market tightened substantially the first of the year due to the recession — even for those in engineering. This trend will continue throughout the summer months, but may relax somewhat in September. In short, all engineering graduates will get engineering jobs, but not by June.

This Spring, 40,000 students will graduate from engineering schools in the U.S. There simply will not be 40,000 engineering job openings before the summer. It will take longer to find an engineering job this year than last.

Many company representatives who interviewed students at NJIT were frustrated because of a hiring freeze at the same time when many, many good students are graduating. Because of the recession, companies are cautious about making hiring

decisions. Why hire a worker for a few months, and then have to lay him off?

Albers points out that over the past 20 years, it has never been true that all engineering graduates had jobs by graduation. Although in 1965 and 1966, everyone had offers, this is not the norm. Now, since companies' needs are not clear, it is more a reflection of the type job market present in 1972 when fewer than half of NJIT's graduates had jobs by graduation.

The worst situation has developed for civil engineering graduates, due to the dropoff in construction throughout the country. Chemical engineers have the most job offers so far, with electrical, mechanical, and industrial somewhere in-between.

The future holds much promise for this year's group of graduates. The increasing interest in making America self-sufficient in energy will again bring electrical engineers into the forefront. The Classes of 1977 and 1978 will graduate the fewest engineers in 20 years; and

the demand at this time for engineers will be tremendous. After the Class of 1975 gets its initial practical experience, it will be in great demand for the future.

New Format For PLP-75

The pioneering Product Liability Prevention Seminar (PLP-75), sponsored by the Newark College of Engineering of the New Jersey Institute of Technology (NCE), will have a new look when it convenes August 19 for the sixth consecutive year.

Instead of the traditional three-day meeting, which has drawn participants from as far away as Japan, PLP-75 will continue for four days, through Aug. 22; and instead of three or more concurrent sessions, there will be only one, so that all who attend will be able to hear all presentations. "This," Prof. Richard M. Jacobs, general chairman of the conference, said, "will serve to emphasize the interdisciplinary nature not only of the seminar but of

the insights required for liability prevention and for dealing with the consequences of unsafe products."

Attendance fee will be \$300 for members of sponsoring organizations (including Reliability Group, IEEE), and \$325 for non-members, plus \$75 for those who elect the three evening workshops, which are optional. All can reduce their cost by \$25 by registering before Aug. 1, 1975. The basic fee includes a copy of the pre-printed "Proceedings" and luncheons and coffee breaks. The additional fee for the optional, evening workshops includes dinners.

Computer Hardware Description Languages

A Third Workshop on Computer Hardware Description Languages and Their Applications will be cosponsored September 3-5, 1975 in New York City by the City University of New York, IEEE/TCCA, ACM/SIGDA and ACM/SIGARCH.

For further information, contact: Prof. Y.H. Su at (212) 690-5392.

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one candidate for each off	fice.	
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Vice Chairman Jim Kampschoer	Member-At-Large-1 (Vote for one only.)	
Treasurer ☐ Frank Gialanella	Member-At-Large-2 (Vote for one only.) ☐ Don Bathke ☐ Al Stolpen	

Please sign on other side in space indicated.

N.J. SECTION BALLOT