THE SCHOOL OF TECHNOLOGY

TECH NEWS

CITY COLLEGE OF NEW YORK

VOL. XIV — NO. 6 | WEDNESDAY, MAY 3, 1961 | 222 | BY STUDENT FEES

Tech Faculty Okays Ph.D.'s

by Mel Pell and Mike Buczaczer

The technology faculty has passed plans calling for the formation of a doctorate program in the four fields of engineering at the college. The program will supplement the graduate program leading to a masters degree which has been in operation here for ten years. It has already been approved by all the necessary executive bodies and could be started in September provided funds can be obtained early enough. The estimated overall cost of the initial program is $500,000. This includes fellowships, expanded library and laboratory facilities, and an augmented teaching staff. The money is expected to be appropriated from the state.

Creativity

The School of Technology bulletin now lists several hundred credits of graduate courses. Many of these list other graduate courses as prerequisites and consequently are on a level high enough for Ph.D. work. The major curriculum changes will be the addition of courses that require greater creativity and work of an individual nature. Seminars are planned to go along with research courses. The faculty is up to the job, more than half of them having sufficient qualifications to teach graduate work on the Ph.D. level.

More Lab Space

The School of Technology is fortunate to have ample space for the program. The new tech building will make available three and one half times as much laboratory space as is currently obtainable. This is enough room to permit research apparatus to be erected without interfering with normal classes.

The Ph.D. program is expected to start with 25-30 full time students and about 70 part time students. The full timers will carry a normal load of twenty-four credits per year. They will receive fellowships of $2,700 per year. It is hoped that the cost per credit will be maintained at the present rate of $25. The full time Ph.D. student will also be expected to "give some service to the school."

Aid Grants

The presence of a graduate program on the Ph.D. level may have indirect benefits attached to it. The Ford Foundation and the National Science Foundation are reluctant to give aid grants to institutions that do not offer Ph.D. programs. They feel there is a pressing need for highly qualified teachers, and therefore focus their attention on institutions which offer doctorate programs. City's proposed doctorate program should bring the school more consideration from these and similar organizations. Research programs could also be carried out that are sponsored by private business. A research program at the College would allow the hiring of undergraduates as lab assistants, which would be a valuable source of experience for them.

The following are the requirements for the degree of Doctor of Philosophy:

Ph.D. Requisites

The doctorate will be awarded in recognition of a high level of achievement in scholarship and demonstrated accomplish-

(Continued on Page 3)

Chem E. Cops Thesis Prize

by Martin Millman

Paul LaRosa was the winner at the A.I.CH.E. New York Metropolitan Conference of Student Chapter with a thesis on cation exchange. The conference took place at New York University's uptown campus on Saturday, April 22, 1961.

Paul's paper was presented in the morning at Gould Auditorium; it investigates the chemical and physical properties which effect the ion exchange process. As first prize winner, he received a subscription to CHEMICAL ENGINEERING PROGRESS, a choice of any two McGraw Hill books, and ten dollars. The other two papers presented were **FLUID FLOW IN PEBBLE BED REACTOR CORES,** presented by Barry Heimlich of the Polytechnic Institute of Brooklyn, and **DEVELOPING TEST METHODS FOR PIGMENTED ORGANIC COATINGS,** presented by Richard Sonshine and Seymour Traub of New York University. They came in second and third respectively.

Paul wrote his paper for Ch.E. 195, a literature research course at CCNY. It was chosen to represent the College by the Ch.E. faculty, and after final metropolitan eliminations remained as one of the three papers to be presented at the conference.

The first man in the Ch.E. graduating class of June, 1961, Paul will begin his graduate studies at Carnegie Institute of Technology in September, 1961. While attending night school, Paul worked for three years at Pfizer doing experimental lab-

(Continued on Page 3)

In order to effectively inform the student body of the issues and the candidates for the next term, TECH NEWS will interview candidates for all of the elected posts tomorrow, Thursday, from 12 P.M. to 2 P.M. and Friday from 2 P.M. to 6 P.M.

Working Girl Is Miss E-Day

At the E-Day Ball a new Queen was crowned. She is Phyllis Carter, a honey blond, who stands five feet four inches in her stocking feet.

Miss Carter was escorted by Richard Scharp of the Chemical Engineering department and

PRIVATE SECRETARY

was sponsored by Sigma Chi Epsilon social fraternity. Phyllis was crowned by Linda Graber, last year's E-Day Ball Queen.

Miss Carter works in the City as a private secretary for the F. W. Dodge Company and spends her spare time bowling or dancing. She is also a skiing enthusiast and plays a good game of tennis.

Auction!

On May 4, 1961, Gamma Sigma Sigma will hold an auction for World University Service. Word University Service is an organization which aids needy colleges and universities all over the world. Items such as dinner for two at Tavern on the Green, and articles from Faberge will be auctioned. There also will be articles donated by members of the faculty. The auction will be on the South Campus lawn of the City College at 133rd St. and Convent Avenue.

There also will be a cake sale on May 4 on the South Campus lawn. The proceeds of this campaign will go to the Easter seals.

All students are urged to participate.

Tech Writing May Be Given Fall Term Is Considered

By TED SEMEGRAN

"A tech writing course could be given next term . . ." was the opening sentence of a letter to all engineering students at CCNY. It culminated the first active effort on the part of interested students to place in the engineering curriculum an engineering and science writing course.

Last year, TECH NEWS had several stories on the possible formation of such a course, but this year, tech students are working to make it a reality.

Credit in 1962

Dean Allen said a technical writing class, if given in the fall term would be a non-credit course. Nevertheless, he said that in the Spring of 1962 the course might be accredited since the Board of Higher Education could not accredit the course until this Fall. Professor Wasser of the English department, and a faculty advisor of TECH NEWS, said he was willing to help in the formation of a technical writing course if enough engineering students were in favor of the idea. He said a professional technical writer would most probably be called in to teach the writing course.

Professor Wasser said on Monday that it might be possible to incorporate the technical writing course into English II and offer it with credit for the fall term 1961.

DEAN ALLEN

Some of the material that

(Continued on Page 3)

Newspaper And Economy Is Public Lecture Topic

Hobart Rowen, Business Trends Editor of Newsweek magazine, will deliver City College's thirteenth annual John H. Finley Public Lecture on "The Newspaper and Society" Wednesday (May 3) at 1:00 P.M. in the college's Finley Center, Convent Avenue and 133rd Street.

Mr. Rowmen, a 1938 graduate of the college, will speak on "The Nation's Economy in the News." The lecture is under the sponsorship of the department of English and department of economics.

The John H. Finley lectures are named in honor of the third president of City College who became editor of The New York **Times.** The series was inaugurated as a means of "bridging the gap between the press and modern society."

Prior to the symposium the college's Annual Journalism Award, given by the Alumni Association, will be presented to student editors and writers for achievement in undergraduate journalism.

Typing To Be Taught In 4 Lessons

An intensive four-day typing course will be offered at the College next month by the Division of Adult Education of the School of General Studies.

The course will be offered in four Saturday sessions, from 9:00 A.M. to 1:00 P.M. beginning on May 20, 1961. It will be given in Room 1320 at the Baruch School. The fee is $17.50 plus a $3.00 registration charge.

The course is specially designed to meet the needs of college students and business and professional people. In four sessions students will be taught the complete alphabet under the "touch system" and will be helped to achieve speeds up to 35 words per minute.

Enrollment for the course is now open. Information can be obtained by calling the Division of Adult Education, WA 6-5409 or in person in Room 208 Shepard Hall, Uptown.

TECH NEWS

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Editorial Policy of TECH NEWS is determined by a majority vote of the Editorial Board

And There Are Mobs

Last Friday in a display of misguided intellect, 146 students of the College walked to the middle of the South Campus lawn and protested against the civil defense drill. After the protest they gave their I.D. cards to the Department of Student Life representatives. What did they accomplish? **Nothing!** We watched them until we were ordered out of our office. (The windows would have been shattered?) Their attempt to show that the drills are useless was wasted. These students supposedly equipped with some grey matter didn't use one bit of it. To protest in a mob is for the masses. The college student is not like the average Joe on the street. He is not now and will never be one. His training is not that of the man on the street. He has been educated to use his brains for any purpose he may want to use them for. No one needs brains to walk out on a lawn, that is for the mob. The college student by virtue of his now high position in our society should use his innate abilities to try to further his cause by joining movements which are organized. We are not saying that we are for or against the protest, just that as college students we should use some of the knowledge that we have received and not have it pass in one ear and out through the other.

The protest was a wonderful thing to watch. It was so organized. First the protestors went out to the middle of the lawn. They unraveled a banner, and stood around looking at each other. When the all clear siren sounded the College officials who had stayed inside to avoid being called protestors came out to the lawn. The studetns moved in an orderly group towards the college officials, and handed in their I.D. cards. It was wonderful to watch. Just like a Cecil B. DeMille epic. Everything went off so nice.

Faculty's Turn

Once every few years rumors start going around the Tech School that piled higher and deeper 212 will be dropped for more math for engineers or that some more liberal arts courses will be included into the Tech curriculum. But most of these rumors die out after a few weeks. In our first issue of the term we suggested that a Student-Faculty Committee for Curriculum be set up in the Tech School akin to that in the School of Liberal Arts and Sciences. We have not heard anything from the faculty, but many students have expressed interest in such a committee. It's the faculty's turn to make the move.

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Letters

Editor-in-Chief
TECH NEWS
City College of New York

To the Editor:

On Thursday, April 20, 1961, the American Institute of Chemical Engineers at their meeting presented Dr. Paul of the Biology Department. Upon reading the notices for this meeting in the campus newspapers, some of the members of the Society of Women Engineers appeared at the meeting and found that they were barred from the room.

The meeting was attended by students in all branches of engineering and the advertisements for this meeting did not limit attendance to male students only. We members of SWE feel that our exclusion from this meeting was undemocratic and uncalled for.

If the women engineering students are welcome at these meetings when attendance is low, we should be equally welcome at a more popular lecture.

We sincerely hope that this will not occur again.

Respectfully,

Susan E. Alexion
President, Society of Women Engineers

* * *

To The Editor:

One of the first things I learned from you my faculty is that one of the biggest problems the engineer has to cope with is "efficiency." I have learned before, and I have learned again. You taught me once, and you have taught me again.

A few weeks ago a letter was distributed to the entire engineering faculty (approximately 150 letters). It was an invitation to a picnic. On the bottom of the sheet was a "Major Work Project." Oh, no, I mean a **stub** which was to be **detached, checked,** in the appropriate box, and given to the secretary of your department. This was supposed to have taken one minute? one hour? one year?—underline the correct answer—only one to a customer. (The red-tape's getting worse).

Well, efficiency-wise, the situation couldn't be worse. The customer will never buy this product. Neither will I. It's efficiency is approximately 8%. Twelve instructors out of the 150 responded within a 3 week period.

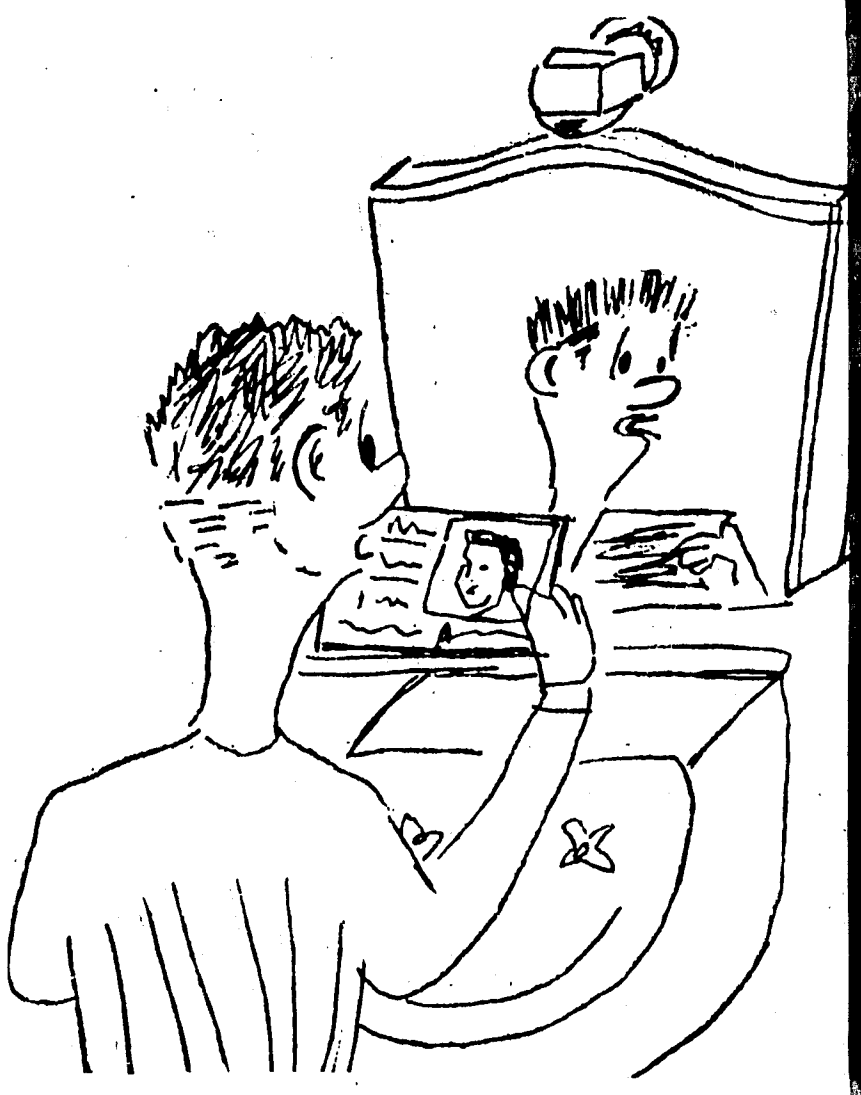
My humblest apologies and thanks to those twelve who did respond. You are a courteous minority. Even though 70% of you expressed interest. I'm afraid our number is a trifle too small for a "massive movement to the picnic grounds."

To 138 others (with some exceptions, I'm sure): Thank you for your kind consideration.

DisGusted III

Welcome

TECH NEWS welcomes letters from the student body and will print all that it receives. Writers must sign their names, but names will be withheld if requested.



I can't understand? I.D. pictures aren't that bad!

New Book Reviews

In order to keep the students informed of recent books in the field of engineering, TECH NEWS in this issue is initiating a column which will present reviews of recent books and periodicals of interest to the engineering student.

Handbook of Fluid Dynamics, Victor L. Streeter, Editor-in-Chief. Prepared by a Staff Specialist. 1,240 pages; 6 x 9; illustrated; McGraw-Hill Handbook Series; $24.00. Publication date: May, 1961.

* * *

"Handbook of Fluid Dynamics" is an engineering and scientific level handbook — prepared by a panel of experts — broadly covering fluid flow principles, theory, methods, and allied data. Although the coverage is highly practical with specific applications to the fields of hydraulic power, propulsion, aerodynamics, petroleum production, and chemical reaction, theory is included where necessary for a clearer understanding of the underlying principles.

The book is divided into two parts — the first dealing with fundamental concepts and the second devoted to applied fields. There are authoritative discussions of basic equations of fluid flow, laminar flow, flow with chemical reaction, compressible flow, and cavitation. Among the other subjects covered are turbulence, motion of immersed and floating bodies, two-phase flow, flow measurements, sedimentation, turbomachinery and pipelines.

More than 30 well-known engineers and scientists — representing a cross-section of industry, government laboratories, and universities — have contributed to the discussions and have presented material on such advances in the field as: fluid power transmission and control; jet and rocket propulsion; stratified flow; magnetohydrodynamics; and computer calculations for fluid flow problems. In addition, many detailed illustrations are used as aids for the

(Continued on Page 4)

Theory of Hydrodynamic Lubrication by Oscar Pinkus Technical Research Group, Inc. Soyosset, Long Island, New York; and Beno Sternlicht, Consulting Engineering Laboratory General Electric Co. 500 pages 6 x 9, 242 illustrations, McGraw-Hill, $15.00. Publication date May, 1961.

Dealing with the broad field of hydrodynamic and hydrostatic lubrication, "Theory of Hydrodynamic Lubrication" strives to place the various branches of this science on a unified theoretical basis from which all solutions and applications may logically follow. By applying the general principles of fluid flow to bearing operation, the authors formulate the differential equations of lubrication, including energy and elasticity considerations. They present techniques for solving these equations either analytically or by analogue and digital computers giving exact solutions for some of the equations and approximate solutions for others. These equations provide a basis for the design and solution of specific bearing problems.

Presenting much previously unavailable design data "Theory of Hydrodynamic Lubrication" also covers such topics as basic differential equations; incompressible lubrication; gas bearings; hydrostatic bearings; squeeze films; dynamic loading variable viscosity elasticity; rolling elements; inertia and turbulence; non-Newtonian fluids; and extensions of classical theory.

Oscar Pinkus is with the Technical Research Group, Inc. in Syosset, Long Island, N. Y. He studied hydrodynamics at Harvard University and in 1951 taught for a year at the Israel Institute of Technology, Haifa. Mr. Pinkus has had over ten technical papers on bearing analysis published in national journals and is a member of the ASME, the Technical Research Committee on Fluid Film Bearings, the Planning Committee of the Joint ASME-ASLE lubri

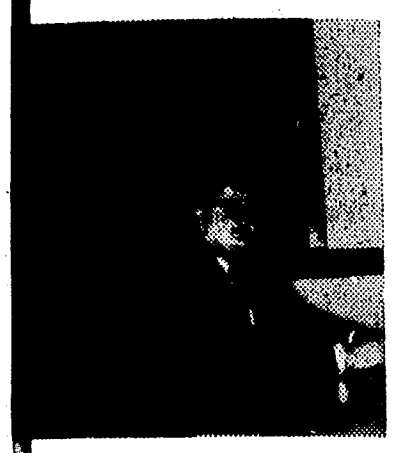
(Continued from Page 3)

omputer Gets Congrats nd Also Criticism

To Be Offered In Summer

By LARRY KLEIN

lthough the College's new P-30 digital computer can think yet, it can multiply, de, add, and subtract. A to- of four hundred students faculty members learned to use the machine in a s of lectures offered by Mr. er of the Electrical Engin-



MR. EITZER

ng Department. The recruits e taught a language called III with which the com- er is programmed.

sampling of the student y and faculty attending the tures revealed that the course highly successful. Some of comments received were:

Engel, 707:

I thought the course was ght well. The notes I receiv- are very valuable. The rse should be opened not y to engineering students, also to math and physics jors. The one drawback was t we didn't get a chance to the computer. If a summer rse in the use of computers e given, I would take it."

rtin Meth, 607:

Although the course was ght well and was very inter- ing, it was difficult to pic- e exactly how the computer programmed. I would have benefited greatly if I could have seen the computer in operation. I would take a summer course in the use of the computer if one was offered. An expanded course in computer programming would be invaluable to engineers.

Professor Miller, Chemistry:

The course served as an excellent introduction to computer programing. The lectures seemed well prepared and the notes were excellent. A great aid, though, would have been the demonstration of the programing of a simple, practical problem on the computer.

Professor Hartman, Civil Engineering:

The series of lectures served as an excellent introductory course to computer programing. I highly recommend such a course for all science and engineering students.

Professor Eitzer having anticipated the desire for a summer course in computer programing, is offering one during this summer session, June 19 through August 11, to interested students and faculty members. There is no fee for the course. Although the course carries no credit, a notation will be made on each student's record card to the effect that he has successfully completed a digital computer programming course.

Lectures will be given on Tuesday and Thursday from 12:30 to 2:30 p.m. In addition, two hours of computer operation will be required each week. The required computer time may be put in on Monday through Thursday from 8:30 A.M. to 4:30 P.M. Instruction will be given in the programing and operation of the Royal McBee LGP-30 electronic digital computer now at The College. The emphasis will be on the use of the computer for undergraduates and the solution of scientific and engineering problems.

Interested students and staff mmebers should make application to:

Dean Seymour C. Hyman
City College School of Tech.
New York 31, N.Y.
or go to Goethals 207.

Students may also call The College, Ext. 359.

Those who are accepted will be notified. Applications should be submitted as soon as possible since only a limited number of students may attend.

ASPIRING TECH WRITER

ENTHUSIASTIC JOURNALISTS

come to 335 Finley TECH NEWS

A Guest Editorial

A Place In The Sun

One of the major purposes of **Tech News** is to report out activities involving members of the School of Technology. Most of the engineering departments are located on e North Campus. Many of the co and extracurricular activities involving tech students take place up North. The office **Tech News** is located on the South Campus. In the near ture the new Tech Building will be opening, thus providg more facilities for the engineer on the North Campus and oving the center of technology student population still fur- er northward. Since our staff members are not primarily igratory beings, it would seem only logical, in view of e above-stated facts, that when the Tech Building does pen, room for the offices of Tech News be provided in it.

—M. T.

Ph.D.'s...

(Continued from Page 1)

ment in original and creative research.

1. The applicant for doctoral candidacy shall have an approved Master's Degree or the equivalent.

2. To become a candidate, the applicant shall pass such qualifying examinations as may be set by the department of his major concentration.

3. The candidate shall complete at least sixty semester credits beyond the Bachelor's Degree. A portion of these may be allowed for research. The selection of courses for these credits must have approval of the department and the Dean. The candidate will be expected to spend a suitable period in residence. Interdisciplinary studies will be encouraged.

4. The candidate shall attend seminars prescribed by his department.

5. The candidate shall demonstrate proficiency in reading the technical literature of his field in one or more foreign languages as the department may require.

6. The candidate shall pass an examination prior to receiving departmental approval of a research topic.

7. The candidate shall conduct research on the approved topic and submit a writen dissertation.

8. The candidate shall pass a final examination which will include oral defense of the dissertation.

Grease...

(Continued from Page 2)

cation Conferences. He is Chairman of the General Electric Company Bearing and Lubricants Symposium.

Beno Sternlicht is Consulting Engineer in Hydrodynamics at the General Electric Company's General Engineering Laboratory. He received his MS and Ph.D. from Columbia University and has taught graduate courses in Applied Mechanics. His technical papers have appeared in ASME, ASLE, IME and other journals. Dr. Sternlicht is on the Advisory Committee of the Office of Naval Research and of the Bureau of Ships and is a member of the High Temperature Materials Panel of the National Academy of Sciences.

CONGRATULATIONS

LOU K.

&

VICKI W.

on your recent

G, J, L & D

IF YOU CAN READ THIS THEN READ TECH NEWS

Editorials

(Continued from Page 2)

It's About Time...

We were happy when, after walking into the cafeteria last Thursday, we saw that **EACH** table had an ashtray, salt and pepper shakers (filled!), and dispensers for mustard and catsup. This is a distinct improvement from the unsanitary conditions which existed with the open mustard and catsup containers. We hope that the cafeteria management will take under consideration more of the possible reforms mentioned in the student council resolution introduced by Ted Sonde. Who knows, people might even come back to the cafeteria to eat some day.

First Prize Thesis..

(Continued from Page 1)

oratory work. He is a member of the A.I.CH.E. and the A.S.T.M. At present, he is a student assistant for the Ch.E. department.

After the paper contest, a luncheon was served in the Gould Student Center. The guest speaker, Dr. Charles Obermeyer, spoke about "CHEMICAL ENGINEERS ON THE COUCH." He contended that all chemical engineers feel some guilt because their developments have been used as destructive tools. The only way to ge rid of this guilt feeling, he claimed, was for Ch.E.'s to take an active role in ending world tensions. Dr. Obermeyer is a Professor of Psychology of the Polytechnic Institute of Brooklyn.

The symposium part of the conference took place in the Gould Autorium where the symposium topic, NEW FIELDS FOR CHEMICAL ENGINEERS, was discussed. The highlight of the speech, NEW DEVELOPMENTS IN ELECTROCHEMICAL ENGINEERING by Dr. Charles L. Mantell, an expert consultant in the field of electrochemistry and Professor and Chairman of Chemical Engineering at the Newark College of Engineering. Dr. Mantell said that electrochemical engineering is a field of study apart from electrical engineering or physical chemistry. The physical chemist tends to study electrochemistry under conditions of

PAUL LaROSA

equilibrium, low current density and dilute solutions. The chemical engineer wants agitation, high current density and concentrated solutions. Under these conditions, electrochemical theory breaks down and empirical methods must be used.

Technical Writing...

(Continued from Page 1)

might be covered in a technical writing class includes:

(a) Effective writing
(b) Organization of material
(c) Writing reports
(d) Business letters
(e) Presentation of Tables, Charts and Figures
(f) Mechanics e.g. footnotes, references.

Professional Speaks

In the March issue of Vector an article written by William L. Moore, the chief technical writer for Autometric Corporatoin stated that "openings exist today in every area of technical writing and for most positions, an engineer will receive preference." "Starting salaries for technical writers are equal to and in some cases greater than engineering salaries and there is a good chance for advancement." Some of the duties of the technical writer include the preparation of technical publications and manuals. However, the writer does not do the designing and engineering detail work which Mr. Moore said "is often tedious to the state of boredom."

Comments Please

Since the need for a technical writing course is dependent on the desires and wishes of the students, TECH NEWS is interested in hearing the opinions of the engineering student body on such a course. Please send all communication to the TECH NEWS office at 335 Finley or put it on the TECH NEWS bulletin board at Tech Crossroads.

The letter to all engineering students:

A tech writing course could be given next term to the engineering students if enough interest is shown by the engineering student body. Chemical engineering students can possibly use his course for one of their liberal arts electives.

The course would be given by a professional technical writer and would include in its course of study the details of technical and scientific writing. A further rundown of the course will be found in the next issue of TECH NEWS.

If your interests and aspirations have been spurred, please sign this sheet with your name and class and the most probable time that this course might be put in your program:

Name .....

Class .....

I could most likely take this course in the:

Fall term 1961
Spring 1961
Other .....

Engineering students other than Ch.E's can take this course if given but they might be required to pay for the credits.

New Bents

The brothers of the New York Eta Champter of Tau Beta Pi the national engineering honor society are proud to announce the induction of its largest pledge class since its inception in 1940. The election of 43 brothers brings the membership for this term to 83. The faculty members elected this term to the Chapter are: Professor Eugene Avallone of the Mechanical Engineering Department, Professor Mansour Javid of the Electrical Engineering Department and Professor Ming L. Pei of the Civil Engineering Department.

The students elected this term are: Stanley Altman, Val Asbedian, Jeremiah Avins, John Benton, Joseph Beyda, Leo Boelhowever, Ronald Brown, Harvey Cohen, Leonard Cohen, Michael D'Ambrosia, Anthany Dolchimascolo, Thomas Dolchimascolo, Roger Engel Michael Faye, Frank Ferara and Aaron Friedman.

Also elected were Sol Gems, Arnold Goldstein, Philip Greenberg, Gerald Grimaldi, Harry Haffes, James LaFrieda, Harvey Leshnick, Martin Mayer, Morris Miller, Martin Millman, Joel Newberger, Mesrob Olian, Demetrios Papadopoulos, George Papadopoulos and Tom Picunko.

Also Alexandre Rossolimo, Stanley Sandler, Yifal Shoham, Stanley Sussman, George Vachtsevanos, Edward Wagner, Albert Waxman, Ira Weiss and Warren Wolff.

Fluid Dynamics . . .

(Continued from Page 2)

reader and to provide current values of important fluid dynamics data.

Victor L. Streeter, Editor-in-Chief, has been actively engaged in the field of fluid dynamics for many years. Presently Professor of Hydraulics for the University of Michigan's Civil Engineering Department, he received his Sc.D. from that University in 1934. He is a member of ASCE, ASME, ASEE, and has been engaged in consulting work for many years. He is the author of "Fluid Mechanics" which is used in C.E. 120.

Further information on Streeter's "Handbook of Fluid Dynamics" may be obtained from the McGraw-Hill Book Information Service, 327 West 41st Street, New York 36, New York.

Candid Camera Catches E-Day

On April 15, the Tech School played host to many high school students and their parents. The occasion was E-Day which is held annually. The four departments were well represented and the displays were numerous. The Electrical Engineering Department presented computer circuitry which used a Tunnel Diode which is the newest semi conductor device on the market. Shown to the right are students from Stuyvescent High School congregated around the apparatus of the Amateur Radio Society.

On the left is a demonst from the Mechanical Engi ing Department showing students the operation o automatic turret lathe whi used in the mechanical e eering shop courses.