



THE SCHOOL OF TECHNOLOGY

TECH H N E W S

CITY COLLEGE OF NEW YORK

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222

BY STUDENT FEES

We Are Accredited

Have you been wondering why some of your examinations have been kept by your teacher? The reason for this is an accreditation program which the Engineering School of City College is a member.

This program first began in 1932 when national societies of engineering in the United States and Canada saw a place for joint action to strengthen the profession. This program includes inception and accreditation of the engineering curricula in various schools. Engineers Council for Professional Development (ECPD) was formed and represents eight bodies:

1. American Institute of Chemical Engineers
2. American Society of Civil Engineers
3. American Institute of Mining & Metallurgical Engineers
4. American Institute of Electrical Engineers
5. American Society for Engineering Education

8. National Council of State Board of Engineering.

In 1935-1936 this council, ECPD, offered its service to engineering colleges as an accreditation body of undergraduate engineering curricula (nation-wide). Prior to this no national accreditation in engineering was available. By 1953 City College's curriculum in the Engineering School was accredited in both day and evening.

The purpose of this program is to identify those institutions which offer professional curricula worthy of recognition as to quality and quantity of curriculum, and the extent to which curricula develops the distinguishing quality of engineers — the ability to design.

The end of determining this is:

1. qualification of faculty
2. standard and quality of instruction
3. progression of courses
4. ability of the students
5. records of graduates in practice and graduate studies.

The board visits every five years and consists of one person from each branch of the engineering school and a chairman. This year the team will visit in February, 1961. They will inspect the non-technical parts of the curriculum as well as the technical.

In addition to ECPD and curriculum is accredited by the Middle States Association and State Educational Board. The colleges in this program are not rated in comparison with others; just as long as they meet the minimum requirements of the board.

MSA and SED accredit the entire college, not just the school of engineering. Their visitation is on a ten-year schedule; the last visit was in 1955.

Dean Allan commented: accreditation is the means of aiding institutions in self-appraisal only."



6. Educational Engineers of Canada
7. American Society of Mechanical Engineers

Liberal Arts? Answer Is No!

By MEL PELL

Despite rumors that another engineering department is to add liberal arts electives to its curriculum, there is no indication that this will actually occur in the future. Professor Taub, chairman of the E.E. department, said that "We have no confirmed plans but our curriculum is under constant study." Similarly, Professor Hartman, chairman of the C.E. Dept. claimed, "The question is still under constant study." The M.E. Dept. is currently conducting an extensive curriculum study that is scheduled for completion a month from now. The department head, Professor

Guerdan, says, "It is probable that when we finish we will have one of the strongest M.E. courses in the country." However, he could not give any indication of whether or not credits will be devoted to liberal arts electives.

Since Chem. E. students started taking liberal arts electives, certain members of the faculty have expressed deep concern over the choices students have made when taking these electives. One of the problems being discussed is whether or not chemical engineering students are actually benefiting from

(Continued on Page 2)

The Board of Estimate has okayed further appropriations for the new School of Technology Building. The sum of \$1,000,000 has been allocated for the movement of existing equipment and the installation of new equipment. School sources are hoping for an additional \$900,000 to \$1,000,000 for the completion of the equipping operation.

Ye Olde Bloode Banke

By MELVYN PELL

Most students by now realize that the semi-annual blood drive is on, but few know much about it or the way it is carried out at City College. They either give blood with the knowledge that it will be put to use in the fight for some person's life or else stay as far away from anything that has to do with blood.

Most of us know that the American Red Cross collects the blood, but how many of us know that every pint of blood collected at the City College is deposited in the City College Blood Bank. Withdrawals are then made from the bank for the rest of the term. Any City College student or employee can request blood from the bank and receive it without cost. Not only can blood or blood derivatives be obtained for himself but for any member of his immediate family, parents, brothers, and sisters. To release blood from the blood bank, a student merely makes a call to the Department of Student Life and informs them of his situation. The D.S.L. then notifies the Red Cross and the blood is released and debited to our account. Unfortunately, due to insufficient donations, large requests for blood cannot always be completely filled.

How about the blood drive on our campus? Who arranges for publicity, mans the registration booths, and helps with collections? The City College Blood Bank Council delegates these duties. It is composed of about a dozen campus organizations such as IPC, TIIC, APO, GSS, Hillel, Christian Association, Webb Patrol, and others. The Blood Bank Council is the executive committee of the blood drive and handles liaison between the A.R.C., the student body, and the Department of Student Life.

Confusion exists as to what giving blood is like. There are certain facts that should be recognized.

1) It is NOT terribly painful. The feeling approximates a shot being given by a doctor.

2) There are no dangerous after effects. You give blood and

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E.E.'s Honor:

Sadie Silverstein Day

By PHILIP GREENBERG

Today, November 16, the Brothers of Eta Kappa Nu (the Electrical Engineer Honor Society) and the students of the AIEE-IRE will honor Miss Sadie Silverstein with a tea in her honor in Finley 424 at 5:30 at which all students are invited. Miss Silverstein is currently finishing her 25th year here at the College.

Affectionately known to the students of the E.E. department as Sadie, Miss Silverstein playfully noted that "it is getting noticeable that the instructors are getting much younger." Asked about the students she has seen she told us that the students in the E.E. department are cyclic. Sometimes for four years the class will just be a class and then in the next four the student class will sparkle. Miss Silverstein noted that she thought the present senior class is one of the best that she has ever seen in knowledge and "handsomeness."

Miss Silverstein has traveled a lot, visiting Europe twice, Mexico, and Washington. Last year she visited Puerto Rico and the Virgin Islands.

Living in Brooklyn, Sadie has traveled the New York subway system for the past 25 years and is not complaining. She likes music and art but "doesn't understand electrical engineering, yet."

Her name is in four books which are well known to the electrical engineering students. She also has her name in a Japanese copy of Pulse and Digital circuits by Millman and Taub. This volume she pointed out is interesting because, besides using the original diagrams interspersed with the Japanese translation, are English words like bootstrap sweep, Ebb, and Phasotron.

Reminiscing about when she first came to the College she said that then the whole technology school had as many teachers as now teach in the

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Vector Reviewed

By STEVE MAYBAR

On November 7th Vector came out with its first Fall '61 issue. This issue which tended to concentrate on topics dealing with missiles and the space exploration problem was very well written and edited. The magazine is fairly accurate and concise in its presentation of the subject material.

Aerodynamic Heating and the Re-entry Problem was the first article in this issue of Vector. In this article the sources of heat generation were traced from theory all the way down to practice as applied to missiles. This article was complete with graphs which helped to explain points made in the article. The article went on to tell of some of the solutions that have been found to aid in the reduction of

generated heat on the surface of a reentry vehicle. The article concluded with a discussion of areas of present research in the problem of heat generation.

The second article in this issue was entitled Space Communications. The author traced the problem of communications from the present time to the extrapolated future. At the rate that communications requirements are expanding it seems that before long the need will outstrip the present faculty capabilities. Scientists have taken to the skies and are preparing to use passive and active satellites in their struggles to beat the problem posed by the growing need for communications.

The third articles in the edition

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TECH LIFE

By LARRY KOWITT



This is your column, for you the tech student. Its sole function is to serve YOU. At long last we have been getting some replies from the readers. Here are the questions that I am asking for them. Why does the manager of the Shapard Hall Cafeteria seem to care about the alignment of the chairs more than he does about the flavor and choice of the food? It might be just my imagination, but the food seems to outdo itself each week by getting worse . . . Can't the Beaver Bookstore sell you a lab manual for a course you've already bought the text at the college store? This has happened to many more people than myself. This is good will? . . . To be and Puzzled: I agree with you but what can you do but beat your head against a brick wall? The rest of the students don't agree with you too, but they wouldn't give the time to put any effort on this or any other issue . . . Why can't the school start repairing some of the North Campus class rooms? We have cracked and peeling plaster on the ceiling and walls. Paint itself has lost its color long ago. One class room in which I sat twice a week, room C 200, has a peeling ceiling, cracked walls, a black paint job, gaping holes in the walls exposing the brick behind it, and a hole in the floor in the corner of the room. Is this the sound of machinery starting up and running some of the equipment below us, and, Oh-Boy!

The R.O.T.C. held its semi-annual review (most schools spend a lot of money working up to this) on Thursday, the third of November, during the 12-2 break. It was an impressive show, especially when it was passed in review. The honorary Cadet Colonels and Majors were in color to the show. The College has a right to be proud of its ROTC. They are one of the best in the country. This is reflected in the spirit of the corp, the spirit of its cadets, and the national standing of its military societies. It is a proud corp, and well may it be. The cadets have boasted of a top Pershing Rifle drill team for the past four years, and of the best S.A.M.E. student post for the past four years, and of the top National Collegiate Rifle Team for years. They seem to have a monopoly on this sort of thing.

Being hard-working engineering students, naturally we have to go to work. Therefore when it comes time to take our lady out for entertainment, we have to settle for a soda and TV. In courtesy to my fellow students, I have a list of FREE things in the city. From "New York Free For All" we find the following items: A free ferry ride to historic Governor's Island. Get from the MP at the Barge Office just below the Battery. Best visit is Wednesday afternoon when you can include a parade at 5 P.M. Tour the pre-Civil War forts and Castle Munsie, now the 1st Army HQ. Hour-long guided tours are given on Saturdays and on Saturday morning through most of the warmer months. Write for reservation: Post Info Office, HQ Ft. Jay, Governor's Island, New York 4. See La Guardia and International airports. Many a weekend night date has been spent touring the sights at International. The pools and fountains with their colorful lights are something to see. The RCA showcase at Rockefeller Center is where you can see yourself on TV and listen to the stereo. While here ask about Consumer Testings. If anything on you could win yourself a portable radio for answering questions. The United Nations. Limited seating at all open meetings. In person, General Assembly Bldg. Hour-long lecture-films explain workings of UN, Saturday and Sunday 11 to 5. 5th Entrance, First Avenue at 46 St., New York 17. A free trip to San Francisco, California, or anywhere else in the USO. Check the public-commercial notices in the New York Times, where transport companies and individual owners advertise for licensed drivers to deliver their cars to various cities. Some foot the bill.

The Cheerleaders with House Plan Assoc. and A E Pi invite representatives from all fraternities, dance societies, etc., to a pep rally in F 438. They want ideas and people for a mass Pep Rally basketball team. The Society of American Military Engineers presents Bethlehem with a Lecture-Discussion on the reactor of the atomic "Long Beach." The lecture is on Wednesday, November 16, 8 P.M. in Room TH 004.

The ASCE will present two films on Thursday, November 17, 8 P.M. in Cohen 301. One film will deal with water supply and health. The other, about the role of an American engineer. Members are also reminded that the semi-formal, Semi-Annual Induction Dance will be held on Friday, November 18, at 8 P.M. in the Grand Ballroom.

WILL YOU BE READY FOR MANAGEMENT RESPONSIBILITY IN 1965?

A positive answer to this question will depend upon . . .

- your ability
- your initiative
- the company you associate yourself with

We believe Hermes Electronics Co. provides the young electronics engineer with a tremendous opportunity to gain a wide breadth of knowledge and responsibility in the areas of advanced digital equipment and systems, sophisticated electronic instrumentation and electro-optical equipment.

Hermes is only five years old and is on the grow. We have 350 people, one-third of whom are professional engineers and scientists. With our recent merger with Itek Corporation, we have gained a great depth of technical reserve to complement our own high level capability . . . which boasts two Nobel Prize Winners on its Technical and Advisory Board.

To augment the growth of our engineers, Hermes sponsors an educational reimbursement program. This program is carried on at nearby universities such as Harvard, M.I.T., Northeastern and Boston University.

You are cordially invited to discuss your professional opportunity with:

Mr. Reuben Wasserman
(C.C.N.Y. '53)
Manager, Digital Systems Dept.
Hermes Electronics Co.
on Tuesday, November 22, 1960
Please make arrangements through the Placement Office.

Electives . . . Vector . . . About Town

(Continued from Page 1)

from liberal arts electives. No matter what the result of this discussion is, in all probability any major changes in curricula will have to wait until the Tech Building is completed.

It should be remembered that the Chem. E. department has a relatively easier task in changing curricula than the other departments. This is due to the fact that all engineers must take some M.E., C.E., and E.E. courses while only Chem. E.s take chemical engineering courses. As Dean Allan so aptly put it, "Inter-departmental relations make it difficult to change curricula."

It was just last year that five credits of Liberal arts electives were given to Chem. E.s to do with as they pleased. Their choice of subjects includes such varied courses as music, philosophy, art, history, languages, and government.

Join The Battle!

TECH LIFE is for you, the tech organizations on campus.

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tion called Stepping Stones to The Stars dealt with the past history and development of rocket carriers. Specific stress was placed on the role of the V-2 and the Aerobee rocket carriers and their evolution. Mr. Skurnik delves into the past history of the science of rocketry and then takes a look at the present state of the art with a view toward seeing what general trends are at the present time.

Scarcity of water is rapidly becoming a very important consideration in this country. It is figured that by 1975 to 1980 the break even point will be reached where people will be using all of the available water supply. This problem was the topic of the fourth story in the present issue of Vector. The title of this article was: Desalting the Ocean. The article went on to describe the ways that scientists are tackling the problem and the relative costs of the methods that have been tried to date. This article makes excellent reading and is an interesting inside view to one of the problems of the future.

On November 17 the Professional Group on Microwave Theory and Techniques of the Institute of Radio Engineers will present a lecture on "The Modern Radar System," by Mr. J. S. Burgess of the Rome Air Development Center of the United States Army. The lecture will take place at the Western Union Building at 7:30 p.m., at 60 Hudson Street, New York City.

A lecture on "Problems in Electro-diagnostic Instrumentation," will take place at 8 p.m. in Welch Hall of the Rockefeller Institute at 67th Street and York Ave., in Manhattan.

Lounge . . .

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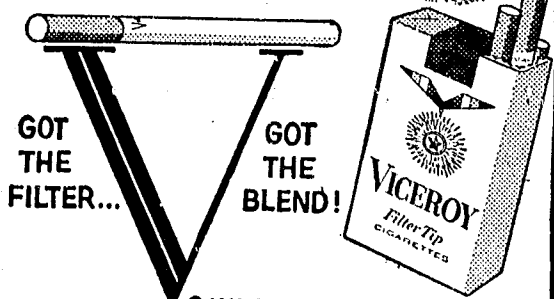
Many students on North Campus may be oblivious to the fact that there is a blood drive at City College. Tech School represents a large portion of the school and T.I.I.C. stated it would like to see a large turnout of volunteers from Tech to give blood. (Engineer's blood is as good as anyone else's?)

Captured BY ESCAPED CONVICTS!



Note: Bob and Pete knew that rocks in a stream often take up water; when these rocks are heated, the water turns to steam - and the rocks explode!

THE RIGHT TASTE BECAUSE Viceroy's got it... at both ends



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Letter...

To the Editor:

A very serious problem at City College is the enormous drop-out rate of engineering students. I believe that this is because most engineering students don't know what engineering is all about when they enter college.

Most students who drop out on their own accord to do so within the first two years of college. Their reason for this, they say, is that they don't like engineering. But they never had an engineering course and what they really didn't like was science. And guess what they become? — science majors!

High school guidance counselors say if you like science you will like engineering. But this is ridiculous! If you like applied science you may like engineering. If you like pure science you probably won't like engineering.

Many students believe there is more money in engineering than in science. This is not so — all things being equal, the money is the same. The important difference is that to do research in science requires a Ph.D. — in engineering, a Master degree.

A solution to this problem, I

feel, is that high schools should offer a few engineering courses on a level that high school students can handle.

Edward Newberger
Lower Senior 3

Tidbits

Then There's the one about:

—the piano player who suffered a nervous breakdown brought on by Shearing stress.

—the CE who was convinced his teacher was a concentrated load.

—the new Cuban sports car. It's called a Castro Convertible.

—the girl engineer who passed drafting because she never knew where to draw the line.

—the EE who, on handing in an assignment late, gave his prof a delay line.

—the new TV show, "The Headless Horseman's Head." It's theme song is "I ain't got no body."

— Dave Tutelman

And Poetry

I think that I shall never see
A schedule that's poetry.

A program gets by registra-
tion
Without closed classes con-
sternation.

A program lets me sleep to
ten,
And then by three I'm out
again.

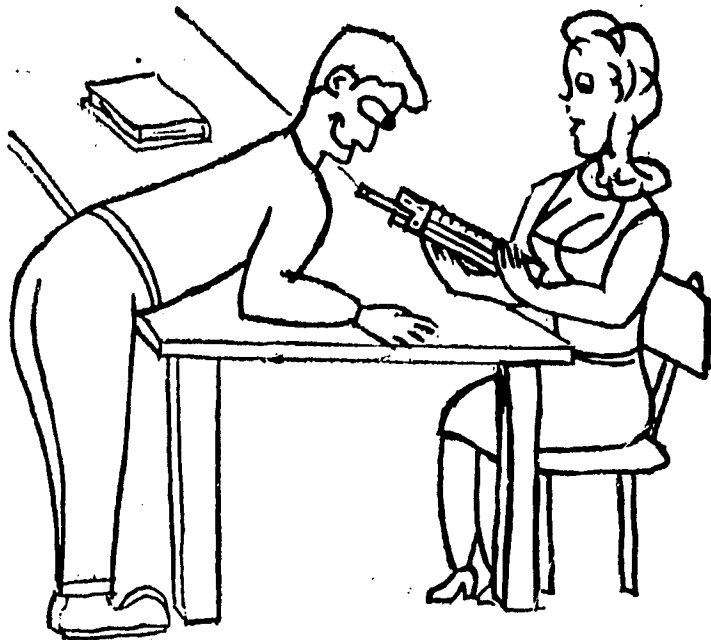
And hour free at twelve each
day.
Time in the afternoon to play.

Easy courses; ideal teachers;
Many other gilt-edged fea-
tures.

But I've found (it's just too
bad)
Programs like this can't be
had.

Eight-O'clocks are for fools
like me,
But only God is out by three.

—Dave Tutelman



"Yes, it is a nice slide rule, isn't it."

PROMETHEAN

The deadline for submitting entries to Promethean, the College's literary magazine, is November 18. Stories and poems may be left in the Promethean mailbox, 152 Finley. Let's go.

FACULTY TEA

REMINDER: There will be a Student-Faculty Tea sponsored by T.I.I.C. on December 1. The Tea will be held on the Campus in Knittle Lounge 3-5 P.M. All students are invited.

Trials Of Tech News

By CARYL SINGER

The publishing of tech school information dates back to the years soon after World War I, for it was in 1919 that the School of Technology at City College was established. At that time TECH NEWS was included in Campus. However, it was not until Oct., 1931, that a paper devoted exclusively to Tech students made its appearance. The first TECH NEWS was published by the ASCE student chapter and supported by them, which meant that the paper was primarily for Civil Engineers. Then ASME, AICHE, and AIEE offered to join TECH NEWS since, as its name implied, the paper should represent all Tech groups.

At the beginning of the Fall, 1933, term TECH NEWS published its first and last printed edition. This was to have all school news since the Campus had been suspended from publication. With the reinstatement of the Campus a week later TECH NEWS again wrote only for Tech students. Although attempts were made to have the paper printed TECH NEWS continued publishing in mimeograph form.

Because of a disagreement between ASCE and the other Tech societies the "Tech Bulletin" replaced the paper in 1936. The "Tech Bulletin" published until the beginning of 1940.

In 1942 TECH NEWS, for the first time became a paper published by all the Tech Societies and fraternities on campus. This only lasted for three terms. In 1943 it was merged with The Campus. Soon Tech information began to receive less space in the paper. Once again in 1946-7 the paper re-appeared in mimeograph form, but finally had to cease publishing due to lack of sufficient funds for printing a suitable paper.

In June, 1954, the efforts of all groups were merged to form one TECH NEWS.

This paper still serves as the "Town Crier" for the Technology students of C.C.N.Y.



JACK SAVED HIS COMPANY \$10,000 ON HIS FIRST ASSIGNMENT

While Jack Trabert was in college he had some definite career ideas. He knew what he wanted—a job with a payoff for good judgment and hard work.

With a B.S. in Business Administration from the University of Nebraska, Jack knew he could look in many directions. And he did. He talked to 20 companies. And then in August, 1957, joined Northwestern Bell, in Omaha, Nebraska.

His chance to show what he could do was not long in coming. On his first assignment Jack came up with answers that made it possible to handle long distance calls made at night in the Omaha area with less force and equipment than was needed under the old system. This resulted in a \$10,000 annual saving.

Next, Jack worked on a training and devel-

opment program for "mark sensing"—a new method for mechanized processing of long distance charges.

Today, Jack has an important role in planning and developing telephone facilities to keep pace with Omaha's ever-increasing need for long distance services.

Jack puts it this way—"If a guy can keep his average up, there are places to go in this outfit. A man doesn't have to wait around for opportunity to knock—he has all he can handle right from the start."

If you want a job in which you're given a chance to show your stuff, and held strictly accountable for your decisions, right from the start—then you'll want to visit your Placement Office for literature and additional information.



"Our number one aim is to have in all management jobs the most vital, intelligent, positive and imaginative men we can possibly find."

FREDERICK R. KAPPEL, President
American Telephone & Telegraph Co.



BELL TELEPHONE COMPANIES

OL. XIII — NO

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