THE SCHOOL OF TECHNOLOGY

TECH NEWS

CITY COLLEGE OF NEW YORK

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E-Day Ball A Success

Hunter Lass Miss E-Day

By AUDRIE SHERMAN

On Saturday evening at about 9:00 P.M., I found myself in the corridor outside the Grand Ballroom of Finley Center. Suddenly I heard a way-out sound. It was a band playing a cha-cha but it seemed to be accompanied by metallic clicks. I decided to investigate and, assuming my private investigator manner, I slyly and stealthily stole up to the door and pecked in. I then beheld the most amazing sight of my entire career . . . slide rules doing the cha cha . . . male slide rules wearing blue hair lines and female slide rules wearing pink ones. Like crazy cool and real gone, man!

I cautiously entered the room to find out more about these strange doings. When I glanced at the tables I like orbitted, man, 'cause there before me were

Suzanne Klinger, Miss E-Day

these wierdy signs saying the square root of 16 and 12 pi. It was a reincarnation of my math class.

"This has gone far enough," says I, "and I must get to the root of this." Using plan number 372 I decide to make like one of these cats and join the festivities. Hoping to garner some info I walked up to the large table where every one seemed to converge and I saw on the table goodies that were like cramming the table top. Never one to party poop was I, so I indulged.

All of a sudden the electricity dimmed and this daddy-o named Dave Schaefer tells us that we're about to be entertained. Then these cool chicks and cats from the Musical Comedy Society belt out some A-1 num bers. This real gone chap, with a physique to match the piano he played, starts on a wild song binge including numbers from Broadway's latest hit, "My Fair

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Vector to Revamp

By FRED BREN

Vector, the engineering magazine is in the process of being reorganized. A complete reappraisal and rejuvenation campaign is taking effect, the final object being to present a more interesting magazine and to show the engineer the value in writing both technical and nontechnical material.

Frank Haney, Editor-in-chief, and Ira Glickstein, Features Editor, agree that "the primary purpose of **Vector** is to act as a voice for the engineering student at C.C.N.Y., and to provide a channel through which the prospective engineer can express his abilities and interests in the engineering field."

In an effort to make **Vector** a more interesting publication, questionnaires were distributed

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TBP Guest Urges Moral Work Choice

By JOHN FENIC

"Creation is a supreme challenge and a great danger," asserted Dr. Victor Paschkis of Columbia University. A member of the Society for Social Responsibility in Science, Professor Paschkis presented his views April 7 in a talk sponsored by Tau Beta Pi.

According to Professor Paschkis, an engineer or scientist differs from an artist in that the engineer must take the responsibility for the things he creates. Three possible positions which could be chosen by an engineer in regard to his work on a particular project were described by the Professor.

A scientist could insist that he was simply supplying his

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Ch. E Trips, Trips . . .

By MURRAY BERGER

For more than twenty-five years Chemical Engineering students have been taking one of the most unusual courses given by any of the engineering departments. Plant trips, or ChE 261, was included in the curriculum to give the student a first hand view of chemical processes, equipment and economic problems in the chemical industry. The course is given for the first seven weeks of every semester.

One of the more memorable trips this semester was to the Schaefer Beer factory in Brooklyn. After a detailed three and one half hour tour the students spent a half hour running qualitative tests on foamy pitchers of the product. Auxiliary reagents included cheese and crackers.

At the DuPont plant in Linden, New Jersey the group saw a continuous contact process sulfuric acid plant which required less than six men to operate; in contrast, the dye works of General Aniline and Film, also in Linden, was characterized by laborous batch processes in which men with hand shovels figured in the materials handling scheme.

The last plant visited this summer was the American Sugar Refining Co. in Yonkers. Here, the step by step process, from unloading the sacks of raw sugar and molasses at the dock to the clarification of the purest liquid sugar product, was followed.

Professor Henry Myers arranges the schedule of trips, and along with a second instructor, accompanies the group on the guided tours, taking notes from which are culled the questions for the final examination.

Spring '59 Plant Trips class during inspection of Refined Syrups & Sugars, Inc. plant.

AIEE, ASME Paper Contests

Latin 1st at City 5th in Regionals

By Richard W. Hertzberg

On April 11, at the Stevens Institute of Technology, the New York regional student branch of ASME held its annual Paper contest.

Ed Latin of City College received fifth prize in competition with representatives of the many engineering schools in the

ED LATIN

New York area. Mr. Latin's discourse was titled "New Ramjet Adaption to an Aircraft Engine." He was chosen to represent the College at Stevens after winning a local contest held here April 9th.

The winning presentation was made by Howard Beroff of Broklyn Polytech, who spoke on "Some Work in Medical Engineering." In addition to the first prize of fifty dollars, Mr. Beroff will receive an expense-paid trip to St. Louis, where he will compete with the other regional winners. A monetary reward and a trip to the Atlantic City conference constitutes the top prize at this meeting.

Before the selection of the winning papers, the entire group of contestants toured the research facilities employed in the study of water vehicles. The most impressive piece of apparatus was a three-hundred foot long towing tank which is used in tests of high speed vessels. Such values as lift, drag and pitching moment may be determined by use of this tank. Another container, seventy-five feet square, has been utilized in the determination of turning effects on ships. Within the near future, a pressure tunnel will be installed for investigation of the cavitation phenomena.

In addition to this tour, a special one was given through the newly erected metalurgy facilities. Three electron microscopes, fatigue and creep test apparatus, an X-Ray miscroscope and two X-Ray defraction units are some of the many fine pieces of equipment available at Stevens.

Besides the tours and papers, a luncheon was prepared for the contestants. The ASME chapter at Stevens, the first to be chartered in the country, deserves a vote of thanks for an interesting and successful conference.

Students Day at Stevens April 24

This year's Student Activities Day, sponsored by the joint AIEE-IRE Metropolitan Student Council will be held at Stevens Institute of Technology, Friday, April 24.

The main function of Student Activities Day is the selection of the best student paper in the prize paper contest. Several of the better papers will be presented, and from these, the best will be chosen, the judging being made on the construction and presentation of the paper rather than the technical content.

The program for the day will begin with the reading of these theses at 2 p.m., to be followed by a tour of the Stevens campus. A smorgasbord dinner will be given, after which Mr. William Keister of the Bell Telephone Laboratories will present a lecture and demonstration of circuit logic, thinking machines, and games theory. The price of admission, which includes the dinner, is one dollar.

Tickets will be sold at the door at Stevens. Stevens Institut of Technology is in New Jersey, northeast of Jersey City.

Music Scheduled For Knittle Lounge . . .

Today (Tuesday), the weekly music listening hour sponsored by Tau Beta Pi (national engineering honor fraternity) will include the Divertissement of Ibert, the Serenade in C for String Orchestra by Tchaikowsky, the Fantasia on a Theme by Thomas Tallis of Vaughn-Williams and La Valse by Ravel. The programs take place in Knittle Lounge every Tuesday between 12:20 and 1:40 P.M.

TECH NEWS

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. . . But the Shouting

This year's E-Day was certainly not the most successful one ever held. There are a number of reasons why this one was not "bigger and better than last year's" -- many 'last years.' Although the show is over this time around, a review and perhaps some conclusions would not be merely points of the past.

The weather was a legitimate excuse, but at most a partial one. It snowed at last year's Engineers' Day but better than a thousand people showed up. Since we cannot, at present, do anything about the weather we will drop that aspect.

The next thing that comes to mind is publicity. This area is at least of top importance, just as important as getting exhibits set up or securing students to man them or soliciting displays from industry. The point should be obvious that without visitors, there is no reason for E-Day.

Publicity can be divided loosely into the areas of on and off-campus activity. This year's E-Day suffered from poor execution in both areas. On campus, there are essentially only two outlets, the newspapers, and more personal contact such as the use of "flyers." The most important point about the utilization of these means of publicity though, is not simply the attraction of students at the College to E-Day, but that it helps generate an atmosphere of excitement about the event which tends to make people volunteer for the many tasks associated with its production. The dearth of guides this term illustrated the result of negligence in properly pubicizing E-Day on campus.

As far as the use of newspaper facilities goes, we might only mention that the "Publicity Chairman" spent the better part of Friday afternoon in our office a few weeks ago working on a lab report. We wouldn't have even known who he was if someone hadn't told us. At the end of the afternoon he had left — without giving us a scrap of copy on E-Day.

This paper had continuously to work at supplying its own information — not just finding the information, but actually supplying it. The other papers, of course, just didn't bother, for which they can't be blamed.

The more important part of getting down crowds though, involves the amount of general, city-wide coverage that can be secured. Although we understand that the usual practice of sending letters to all city high schools was repeated, there is still much more that should be done if the efforts of the dozens of people who make the annual open-house possible are not to be wasted. In the past there have been spot announcements over radio stations as E-Day drew near. There is the possibility of a spread in Sunday supplement sections of the city newspapers. Continuing coverage in the weeks preceding the event could be brought about with not too much trouble if a series of "features-worthy" happenings were arranged. Any and all of this however, requires long-range planning — not the two days before sort.

Perhaps the most discernible single fault of this year's E-Day was an overall lack of this necessary planning. It wasn't really so much that things didn't get done as that things weren't arranged to get done. And occasionally projects were allowed to slip too far so that they just were never accomplished.

Departmental chairmen should be chosen and be aware of their role before intersession if they are to be expected to do a creditable job. Letters to industry have in past terms been as early as the November prior to E-Day. We are not positive they have yet been sent out.

The choice of date this year also turned out to be quite unfortunate. The National High School Science Fair took place the same day and was probably a significant factor in the relatively small turnout. An additional handicap to attracting engineering students themselves was the occurence of the finals of the ASME paper contest the same day. Certainly, in the selection of the date for next year's open-house, TIIC had better check carefully to avoid coming up against conflicting events.

What useful lessons can be drawn from this review? First, we hope that TIIC will recognize the magnitude of the job it presents to the next E-Day Chairman and so pick its man with extreme care. Whoever he is, he must present certain minimum requisites. He must be a student with those well-nigh proverbial — but necessary — "contacs." He should also, before getting a task like Chairman, have demonstrated the ability to get people to work for him and with him — he must have recognizable leadership qualities. Another good idea would be a man who hasn't been too pressed in his studies. The Chairmanship requires a tremendous amount of time. Council might then relax a bit but pray that their choice picks good men to aid him in subordinate positions.

One Man's View . . .

By HENRY HIRSCHBERG

In far away Siberia
Where days are dark and drearier
Sat men in woolen gotges
Drinking Vodkas
In the cold

Ensconsed in cafeteria
As I said in Siberia
Some pale and others flushin'
All were Russian
So I'm told

Their talk was neither mystical
Or even egotistical
It just was simply boring
Some were snoring
On the table

But one was over zealous, he
Said come on don't you fellas see
We need a new attraction
And some action
If you're able

He said the times necessitate
And so we best not hesitate
For now I really wish you
Find an issue
We can guild

To wake the "man," for nappeth he
And shake the spreading apathy
Then send it all asunder
With the thunder
That we build

Then spoke the budding journalists
Let's make the lists "infernal lists"
With writing that is frantic
And pedantic
Thus we'll sing

I'm confident this story will
Make splendid editorial
We'll never stop our fighting
Or our writing
Bout the thing

Then soon began the ritual
The lists became habitual
The Editors, their brothers
And some others
Had their rub

And months after conceiving it
The students were believing it
That lists were bad and wronging
Those belonging
To a club

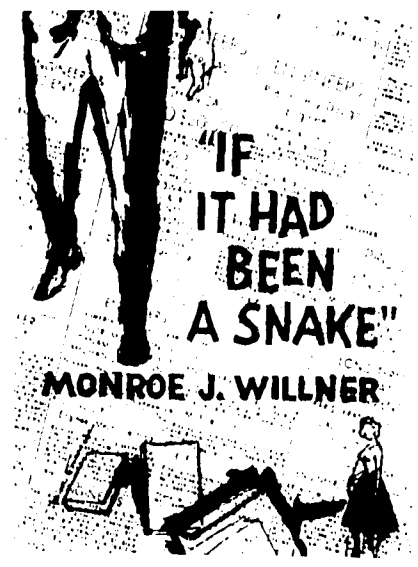
So learn that insincerity
May benefit posterity
And when the lists are banished
And have vanished
You best aim

To search for problems malleable
For that's the kind that's valuable
And if heaven hasn't sent one
Go invent one
All the same.

Review:

An Engineer Develops

By RICHARD PAWLIGER.



Have you, as City College Techmen, ever thought what your college life would have been like if you had gone to an out of town engineering school? Have you tried to picture yourself as a practicing engineer, one, or five, or even ten years from now? In the excellent novel published last Thursday, "If It Had been a Snake," the author answers these questions for you very well.

How well do you remember being told at freshman orientation that when your class reaches its Senior year, half of the men in it now will not be here? Well, Lloyd, for that's who the story is about, is told much the same thing when he enters G.I.T. in the war year 1942 as an E.E. student.

This young man recognizes the patriotic duty of a citizen in wartime and enlists in the Army for the duration after completing his first quarter as a Co-op student (school three months, work three months). After the war he returns to Tech along with the thousands of other returning G.I.'s to take up where he left off.

The "home from the war" Lloyd is considerably more mature than the young farm youth we meet him as but his unbounded determination to reach his goal is undiminished. This is immediately apparent by the many skull sessions that he and his roommates get into about life and the engineering profession. Not that other matters don't enter the picture, for a men's college dorm would be abnormal if the bull sessions were limited to esoteric subjects. Love, sex and football (?) get their share of hashing about. And how banal and similar are the discussions heard in CCNY's mobile dorms on eight wheels run by the New York Transit Authority. . . .

"Professors don't have to make it so hard. . . . If the profs were more congenial and got to know their pupils better, they'd get across just as well . . . without all of this head knocking."

And the usual answer . . .

. . ." the authorities are highly concerned about this matter . . . but remember, this is an engineering school and lack of help may be good for us in some respects. Digging out the answers by ourselves may be good practice."

And how often have you heard or even said yourself, "a grade of C here is worth more than any A plus at most other schools!" Lloyd says the same thing in reference to the G.I.T. student but justifies the rigorous curriculum by a darn good argument that is worth repeating here.

"Engineering as a profession is more exacting, it requires more careful thought and more investigation of all aspects than most of the arts. . . . With a writer the majority of people won't know whether he's right or wrong if he pulls a booboo. With a lawyer the right kind of psychology can make the facts look silly . . . But with an engineer, his decision spells success or failure. He creates, and what he creates must stand the tests of practicability and use. It must also be produced at reasonable cost. It must have appeal to the public whose tastes he must second-guess. He'll have to originate designs so simple an idiot can operate them. If he makes a serious mistake, the whole project might fall through . . . Even simple mistakes soon become known to all. No convenient way to conceal error exists. The en-

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TECH LIFE

By MARK LEEDS

Some individuals maintain that the role of the undergraduate engineering student is a most difficult one to fulfill. Fewer persons realize that the role of the college instructor also poses difficulty. Among the infinite components of this role is that of composing examinations for the students.

Although each instructor is equipped with a formidable amount of intelligence, some of the best minds in the engineering educational system find it a difficult task when faced with composing **THE** examination which will truly indicate the student's knowledge of the subject matter in question. As an example, suppose that you are a student enrolled in the EE 135 course and, taking an examination on Binaries, Multivibrators, etc., you are asked to reproduce the 12AU7 tube characteristics. Or, an ME 160 class, your instructor distributes a test calling for a detailed construction of the Mollier Chart. Some test, eh? Low marks, right. Yet, it doesn't mean a thing.

Incidently, approximately 90% of the June 1959 classes at MIT, Cal. Tech, Cooper Union, and of course, City College, have vowed not to seek employment in the ranks of private industry upon graduation. It seems that this 90% were not able to obtain any technical Summer employment during their undergraduate careers. Therefore, they have resolved to pursue their engineering and science careers in either of two possible channels: one, to enter the educational system on a full-time basis (which is really the most noble of all professions), or to seek employment in a technical capacity in foreign lands. We sympathize with the American engineering industry (which will undoubtedly crumble now), but perhaps they are getting their just desserts after all.

On Saturday, April 11, 1959, what was supposed to be the outstanding School of Technology function of the college year was recorded in the history books as a near-fiasco. A measly 400 persons showed up for the E-Day event, hardly justifying all the effort that went into this pre-doomed caricature. The Campus stated that inclement weather was the cause of the poor attendance. For the benefit of our readers, I will amend that statement by stating that the percentage of potential guests that did not make the trek up to these halls of learning on Amsterdam Avenue was negligible. Rather, it was a predominance of human factors that resulted in the wasted effort.

First of all, the event was scheduled for the same day as the National High School Science Fair, hence the conflict; second, those persons responsible for the publicity of the fete did not fulfill their obligation to the individuals who laboriously gave of their time and intelligence resources.

Primarily, there were those leaders (aside from the chairman of the individual engineering departments) who refused to function in their positions. These persons remained in their official leadership roles for E-Day without showing any sincere concern about the outcome of the event. Hiding behind a transparent cloak of false stature, their sole interest in the function was one of self-centered benefit. That is to say, they deliberately used their leadership roles to attain the goal of all opportunists; namely, that of recognition by their peers for their nonexistent efforts, in order to derive some material or political benefit.

We must also consider that perhaps we are unnecessarily directing the E-Day event to the wrong group. Since the general public will never comprehend or sincerely appreciate the efforts of the participating students, we all might be better off if we dedicated the show to industry (which certainly can compensate an outstanding engineering student body for its achievements). After all, the masses have never shown any great respect for what they have misnomered the "Eggheads."

Also, this reflects upon the instructional ranks, for the show really couldn't go on without their consultation and assistance. Any institutional student engineering exhibit is the sum total of the knowledge gained by he students from the efforts of the faculty. It is common knowledge that the American public shows no concern, respect, or appreciation for the teaching profession. This is evidenced by the poor salaries of educators relative to the financial rewards of the more menial yet lucrative employment capacities (e.g. truck drivers, bricklayers, etc.), and the constant struggle for a social recognition of some stature by the teaching professionals.

Letting the pendulum swing the other way, E-Day did have its bright side too. For it permitted its participants to "get down to earth" with respect to the working order of the **Science** of engineering. Also, the informal atmosphere, and the closer, more mature, student-faculty relationships that day, lent themselves very nicely to making the event a "natural" one, rather than the suffy, artificial, industrial exhibition norm.

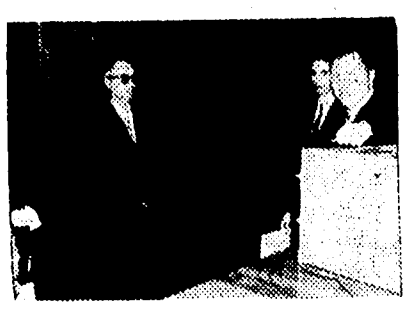
In the future, let us be more judicious in our selection of E-Day leaders, and of the audience to whom we extend our invitations. And to help us remember the past, let us constantly keep in mind the following expression (from Ben Hecht): "Vellier de L'Isle Adam, Parisian writer who lived like an alley cat, ate stale fish, went threadbare through 50 years of penury-who wrote with frostbitten fingers on cigarette papers, spoke from his hovel when dying: 'Farewell, I have lived the richest and most magnificent of men.'"

Weather Drizzles, E-Day Fizzles

This year as in past years, each of the four engineering departments, the Military Science Department and the Drafting Department opened their respective facilities to the groups of visitors that wished to take this year's Cook's tour on E-Day.

As guests met a lack of the usual guides, they took a copy of the E-Day brochure which gave the titles of the various

exhibits, by departments. As the brochures were piled near the refreshments and the CE labs those facilities saw the most service. The junket started in the CE112 lab (Materials Testing) and there visitors were shown the various tests concerning torsion and shear. They then moved past the crossroads toward the door, but before they could leave, the sound of falling water attracted them to the CE flow lab. There visitors



were entertained by various demonstrations including an exhibit about quicksand and another concerning the use of the weir and other flow measuring instruments.

When the group again tried to leave, it found itself face to face with the EE power lab and was, perhaps, induced to stay for demonstrations of magnetic amplifiers and different types of motors.

Some of the guests were then waylayed on the way and taken downstairs to the ME power lab, where the turbine, the air compressor, and the jet en-

gine excited the most curiosity.

Finally escaping into the fresh air, the group was too curious to leave and wanted to enter the big building with a clock on it. They did so and were met by the people-thirsty EE's and ME's. Some of them were trapped by the eager MEs and so saw demonstrations involving the shake table, gyroscopes and the metals process-

ing lab. The EE's had exhibits which included an electric organ, sonar and power amplifiers.

By this time most of the visitors were tired but the ROTC boys forced them into their bivouac to be shown mines, guns and other military parafanelia.

The ChemE's were perhaps the most disappointed group; their isolation kept many people from visiting the electrochemical labs, the heat treating labs and their computer.

. . . Ball

(Continued from Page 1)

Engineer." My first clue came when I found out he was Mr. Eitzer of the E.E. department.

The dancing resumed, but not for long, and then the lights dimmed again. My eyes like bugged out of their holders, man, 'cause these top notch chicks came wrigglin' down the aisle. After parading before some bigwig slide rules on stage, they lined up on the side of the room . . . va va va voom! To continue, the judges went into a huddle and after deliberating for three days, reached their decision. Stan Grossel was named Miss E-Day. I was about to offer my goggles to the judges when they realized something didn't jibe. (His date complained.) They reversed their decision and named a top drawer chick, Sue Klinger, as Miss E-Day, 1959. This seemed to meet with everyone's approval as was shown with a roar of applause.

My curiosity just about got the best of me, so I slithered over to one of the big brass and queried, "Tell me daddy-o, who are these crazy cats?" He clued me in and said, "Get with it man, these swingers are Engineers and this fest is the E-Day Ball and it's like cool, man, cool."

Tau Beta Pi Neophytes

The following students have been chosen to pledge this term for Tau Beta Pi, national engineering honor fraternity:

Elias, David; Fenic, John; Feuer, Robert; Gillen, George; Grish, Theodore; Grossfield, Andrew; Hertzberg, Richard; Linefsky, Myron; Medici, Dante; Newberger, Stuart; Rubin, David; Rubin, Philip; Schiff, Leonard; Schutzer, Daniel; Spear, Robert; Spiegelman, Stanley; Weintraub, Francine; Wine, Charles; Wynn, Charles; Ziegler, Edward.

Arthur Barry White (Age 10) Enjoys E-Day

On Saturday April 11, I went to City College with my brother Howard White to see the exhibits there. One thing I saw there was an experiment to show that sand turns into quicksand when water is underneath the sand. In another room I got on a seat and held two hammers then somebody gave me a push and the seat started revolving as I brought the hammers closer to myself I went faster and as I moved them farther away I went slower. I also saw many machines. I saw iron pulled apart at about 30,000 pounds, I also saw a surface grinder. I saw a screw being made on a turret lathe. I also saw a steam engine and turned the throttle and got an indicator card. I saw real guns and models of guns.

I enjoyed this tour very much because it taught me and it was very interesting.

. . . Vector

(Continued from Page 1)

in a recent issue of the magazine. An attempt was made to find out what type of material the student body would like to read. Unfortunately the response was poor. Many students desired an issue that would deal with merely one topic, but this may not be practical since the magazine might sell only to those interested in that specific field.

In the November 1958 issue of **Vector**, the article most enjoyed, dealt with something specifically associated with the technology school, ME 247. This seemed to be indicative of the type of material the average student would like to read. Ninety-four percent of those people who returned questionnaires thought the entertainment page (Vector Volts; Stolen Stuff) should remain, although the jokes were rated pretty bad. Dean Peace, a loyal follower, has made it known though that he thinks the joke page should be disposed of.

The May issue of **Vector** will contain a wide variety of material. An article on Charles F. Kettering, one of the great inventors of our times, should be of interest to everyone. It is something of a departure from strictly technical information.

"Snap III," deals with revolutionary advances in the use and construction of atomic batteries, another peaceful use of nuclear energy. A third article, "Investment Casting," is a neat and concise piece but may be of limited interest. Finally, a manuscript on "Water Lubrication" written by Frank Haney, editor-in-chief, will appear.

The May issue will seem smaller than usual only because advertising has slumped. The non-advertising content though will be greater than in the last issue.

Vector is a member of ECMA, a body consisting of 56 other college engineering magazines. Advertising, which is obtained through an agency, is necessary to help meet bills. **Vector** normally sells about 800 copies on campus. In addition, 500 issues are mailed to engineering companies, other members of ECMA, and various high schools in New York City.

Vector's staff consists of people who are interested in working and writing for a technical magazine. At some colleges, magazine editors are salaried or receive college credit. Mr. Haney commented that "all we seek is more cooperation from Student Government Fee Agency and more interest on the part of the student body. I see no reason why **Vector** shouldn't sell 1500 copies rather than 800, at a school having 3000 engineering students."

Sports

By HERB WEINER

Last Thursday in the Slide Rule League ASCE beat AIEE, 45-42. John Bagly, CE high scorer, was the key factor in the victory. Big John's hustling and rebounding were as significant as his scoring. It was a close game all around as evidenced by the halftime score of 19-18 and the final tally.

The EE's dominated the game in the opening minutes. They became lax on defense and soon found themselves trailing by a slight margin. Led by Mick Salis and Walter Cascell's sharpshooting, the circuit analysers closed the gap and kept near the CE's until the final seconds.

The second game scheduled was forfeited by AIChE to ASME.

Two weeks ago ASCE downed ASME 31-27 in a closely contested game during which the lead changed hands several times. The second game was equally as exciting as the first. In that game AIEE topped AIChE by a score of 46-41.

ASCE —	10	26	45
AIEE —	18	24	42

Rosenzweig Wins TBP Art Contest

Ronald Rosenzweig, a graduating senior in Chemical Engineering, was chosen as the winning artist in the E-Day art contest sponsored by Tau Beta Pi. The cultural committee of the honor fraternity comprised the judging panel.

Ron's display included one pen and ink drawing, two pencil sketches and three executed in oils. In the last few terms, Ron has been taking courses in the Art Department in addition to his regular credit load in Ch.E. It was during a class in composition last term that he did the pen and pencil works. The oils, however, were done several years ago, although Ron's first formal training in this area is coming in a class he is taking this term.

This is the first art contest Ron has entered and as he puts it, "I'm batting 100%." He had planned to enter last year's E-Day contest but was unable to because of an automobile accident the night before.

Robert Kahn, V. P. of Tau Beta Pi, commented that "the art contest is held every E-Day in order to display the talents of engineering students in other than technical fields." His impression of this past contest is that "it was a big success, everyone who came by liked it. There was lots of talent and so it was very difficult to choose a winner."

Landau Gift Aids ME's

By ARTHUR DEGENHOLTZ

The Department of Mechanical Engineering has recently received several models of multiple spindle drill heads incorporating a new type universal joint invented by the late Mr. Joseph N. Landau.

The drill heads were generously donated by Mrs. Helen D. Landau.

The multiple spindle drill head is a tool used in mass production operations. It is mounted on the shaft of a drill press and the motion of the drill press spindle is imparted through a set of gears and drive shafts to several smaller spindles, thus enabling the press to perform several drilling operations simultaneously.

The drive shafts on these special multiple heads use these ball joints instead of the ordinary "Hooke's joint."

The joints consist of a ball held by two special u-shaped hooks connected to the shafts. The motion is transmitted by the shaft to the ball and the ball then imparts this motion to the second shaft. The joint is flexible and can be operated through an angle of 95 degrees. It is simpler to manufacture and therefore cheaper.

The device, which has been fully patented, was Mr. Landau's last project before his death in 1948. Mr. Landau headed the Landau Machine and Drill Press Corp. and developed a total of 24 patents in the field of mechanical design. His widow, Mrs. Helen Landau presented these models to the school, stating that she had heard of the excellent reputation of the School of Technology and hoped these models would serve some useful purpose. They are being used for demonstrations by instructors in the M.E. Department.

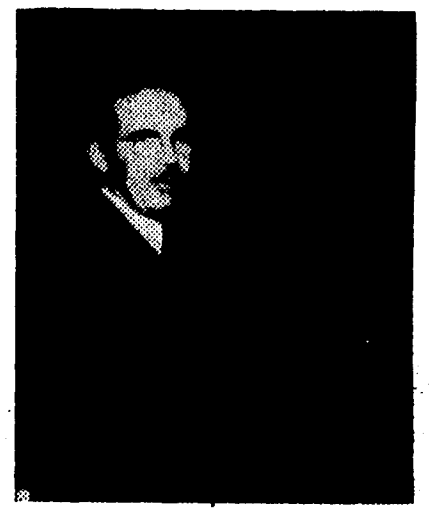
Whitford Eager for New Tech Library

By BRUCE PODWAL

One of the most important features of the new Technology Building will be its spacious library. Probably the happiest person concerned with the move is the Librarian of the Technology Library, Doctor Robert H. Whitford.

The move will also be welcomed by all of the technology students who for about two years have had to put up with the Great Hall with its limited amount of table space. The college will also be able to schedule functions once again in the Great Hall after the library moves out. Many of its features have been arranged by Dr. Whitford himself, to provide maximum accessibility to the students. He planned the interior of the library to provide ample space for the storing on shelves of books and magazines, many of which are presently stored in cartons in the Great Hall.

Dr. Whitford holds several degrees, including one in Mechanical Engineering from City College and a Doctorate in Education from Columbia. He is an Affiliate in the American Society of Mechanical Engineers, and is a member of the American Socity of Engineering Educators. Among the honor societies that Dr. Whitford has been elected to are Phi Beta Kappa, an honorary technology society, and an honorary librarian society.



Dr. Robert Whitford, Technology Librarian

For the past twelve years, Dr. Whitford has been Secretary for the college's Engineering Alumni and in 1955 he was awrded an Alumni Service Medal for his devoted work. About two months ago, he was similarly honored by the Alumni, when he attained a mark of one hundred consecutive meetings attended. During the last war, Dr. Whitford was an instructor in physics for the college. He has also written several books including **Physics Literature,** and he has had many articles printed in various technical and library journals.

...Been a Snake

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gineer gets the full blame everytime. Therefore, he must be correct."

As the central character's life unfolds and he enters his Junior and Senior year, the author vividly captures the development of the inquiring engineer's mind. The perplexing thoughts of the concept of creation and existance run through Lloyd's mind and he reaches the same impasse that you and I reach when we think of such things. Lloyd's questioning mind asks, "Is science at a dead end in certain areas such as these?" Is it indeed!

And what a clever stratagem he resorts to to raise his grades. Reasoning that if the top honor students achieve their success with effortless study by exuding supreme confidence and refusing to admit defeat, then the converse must be true. Thus, "my grades should rise if I adopted a similar method of study," reasons Lloyd. Sure enough it worked, but would you dare try it? The closest the author could come to explaining this phenomenon (which we might call Lloyd's Law of Laxity) was the observation that mental attitude made the difference.

As the end of the Senior year approaches and job interviews enter the picture, we realize that our new found friend is ready to enter another chapter of his life. Some pretty valid reasons are presented for his choosing to work on the West coast rather than remain in the East, reasons, by the way, which you will more than likely consider when your time comes.

Lloyd's professional development is superbly presented by the author and the erudite character of his subject is brought out time and time again. One can't help but be impressed by the perhaps too mature and professional way in which this tyro engineer undertakes his first project.

But alas, along with the pride of professionalism comes its disillusionments and then the inevitable change of jobs. And what disillusionments! The entire engineering firm set-up and the treatment of engineers as well as the government system of awarding contracts is bandied about in a hospital room conversation between Lloyd and his professional colleague.

Following our hero to his econd job and his third, a teaching position, is the subject of the remainder of the story. Two provocative thoughts that Lloyd leaves you with is, as he himself says, ". . . the difference between a good and a bad engineer is that the former has a sense of values and a large vocabulary while the latter is adept at the art of griping" and, ". . . decisions, decisions, decisions, that's what engineering is made of."

Well, Mr. CCNY Techman, the medical profession has Sinclair Lewis' "Arrowsmith," the scientists have Lipsky's "The Scientists" and innumerable other volumes have been written giving the "inside" stories of other professions. Now engineers have their case pleaded in "If It Had Been a Snake." Even though it's not on the official book list, I'd recommend it for some fast, easy, thought provoking reading.

Paschkis

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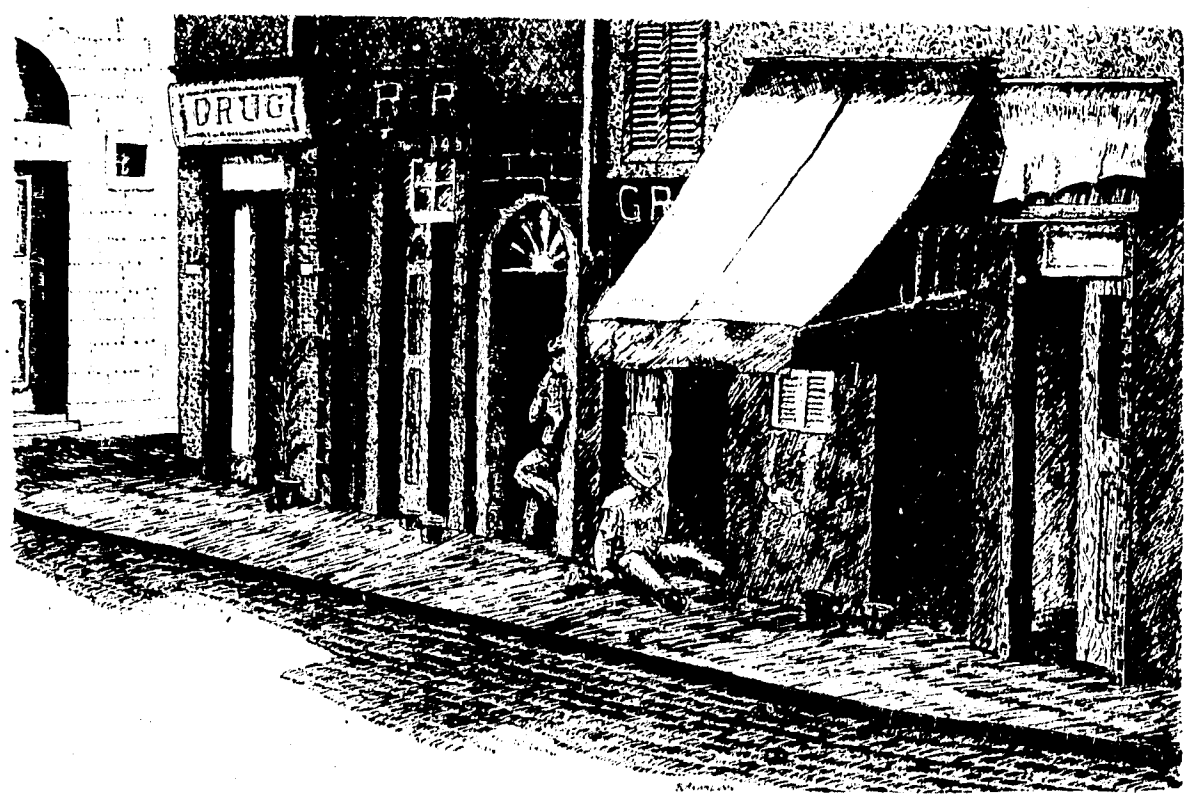
skills to a project and bears no responsibility for its results. A more reasonable stand, he said, would be for the scientist to educate the public regarding the posible dangers of a project, but work on it if directed to do so. A third stand, the only proper one according to Dr. Paschkis, would be to refuse to work on any project which he believes to be morally wrong.

To illustrate the third position the professor stated that he personally feels that the current armament race will eventually lead to war and therefore he will not be associated with any work concerning defense.

Dr. Paschkis believes that this country's best hope in the current world situation is to follow a pattern of "non-violent defense," and offered several historic examples where such a policy has been successful. Included was Gandhi's passive resistance in India. Under questioning, he agreed that India was not truly representative of the current world situation but stated, "In no case in history has an armaments race resulted in anything but war."

Outspoken in his opinions on armaments, Professor Paschkis emphasized the dangers involved by stating that at present, SAC bombers made regular flights over portions of the Soviet Union just to see what effect such a move would have on the Russians. This interesting fact was quoted from the magazine "Missiles and Rockets."

Dr. Paschkis did note, however, that in takir.g a stand such as his on a particular question, an engineer must be very careful in the way he expresses himself lest he be branded a crackpot.



This work especially impressed the Tau Beta Pi judges.