



THE SCHOOL OF TECHNOLOGY

THE TECH NEWS

CITY COLLEGE OF NEW YORK

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222

BY STUDENT FEES

More Math, Liberal Arts For Chem. E's

By MARTIN MILLMAN

Some important modifications of the chemical engineering curriculum have recently been proposed. If put into effect a year from now, the changes would permit students to take credits of mathematics beyond elementary calculus instead of three and would raise the number of cultural elective credits from five to six. The graphics sequence might be modified in content with a possible decrease of two credits. The course in mechanics for engineers (Physics 110) might be modified in content with a possible decrease of two credits. Professor Schmidt, chairman of the chemical engineering department, has made it very clear that these changes are only in the discussion stage. No one has been set for effecting changes, nor have the changes themselves been approved and students are advised not to try to anticipate possible changes by deviating from their planned programs.

The proposed six credits of mathematics beyond elementary calculus would probably include the following topics: ordinary differential equations, Laplace transforms, series, solution of differential equations by Legendre and Bessel functions, Fourier series, vector (linear) algebra and matrices, vector calculus, and partial differential equations. The criterion for including subject matter in the new mathematics sequence is that the material be

of such nature that the student would use it actively in his undergraduate curriculum.

The need for additional mathematics by the chemical engineering student has arisen from the growth of a more rigorous approach in the past few years. The various unit operations such as distillation, liquid-liquid extraction, heat transfer, mass transfer, fluid flow, and filtration, used to be treated individually. Now the textbooks are stressing the general principles underlying groups of operations. The stage operations are studied together. Distillation, extraction, and humidification are just special stage operations. A generalized model for the rate operations is studied and then applied to such cases as heat transfer, fluid flow, and mass diffusion. This approach requires a firm mathematical background.

The development of computers has also created a need for more mathematics. Until recently, there were many problems which could only be solved graphically. Now they may be solved analytically with the help of computers. In the past year, computers have been introduced into five chemical engineering courses as required material.

Professor Schmidt says that "The curriculum will of necessity be in a continuous state of modification in order to keep abreast of the rapidly changing professional needs.

TIIC Endorses Entire Reform Slate

By SAMUEL EIFERMAN

At the last two meetings of the Technology Intersociety Interfraternity Council, November 10 and December 7, action was taken to get the technology student "a fair shake" from the Student Government at the college. It was noted at the November 30 meeting that the Student Council was made up almost wholly of non-technology students and that the two or three technology students on the Student Council were so outnumbered that any action on the benefit of the technology student was next to impossible. It was decided that TIIC had no courses of action open to it. There was secession. But in the words of Dean William Allan, secession is "illegal." The other course of action was to run a slate for the Student Council under a united engineering platform. It was at this meeting that TIIC decided something must be done to get students to want to do things for the

benefit of the technology student onto the Student Council. The result of this was the formation by TIIC of Your Engineering Slate (YES) composed of students who will, if elected, work on the Student Council to bring benefits to the technology student. The slate, which is composed of Linda Graber, Sam Eiferman, Steve Marcus, and Mike Wachtell, promises:

1. To obtain a fair equitable disbursement of the two dollar Student Activities Fee to the School of Technology organizations. (This is proposed to be accomplished by creating within the Student Faculty Fee Commission two sub-committees, one to control the School of Technology and the other the School of Liberal Arts and Sciences);
2. To obtain mimeograph and ditto services at the North Campus for North Campus organizations;

(Continued on Page 4)

Fred Bren For President



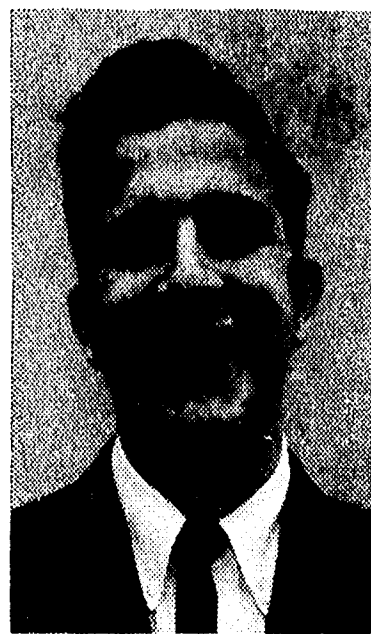
Fred Bren

FRED BREN (R)

Previous experience in Student Activities; Educational Affairs Vice-President, Met. New York Region of U.S.N.S.A.; Delegate, 14th National Student Congress; Participant, 11th Student Body Presidents Conference; Student-Faculty Committee on Student Activities; Student Government Treasurer; Student-Faculty Free Committee; Student Council Representative ('62); Student Council Civil Liberties Committee; Chairman, Student Government Fee Commission; Student-Faculty Used-Book-Exchange Committee; Student Government Re-organization Committee; Freshman Class Council ('62) Representative; Co-Chairman, Student Government Elections Agency; Recipient of Student Government's Distinguished Service Award; Vice-Chancellor and Treasurer, Pick & Shovel; Vice-President and Program Chairman, Young Democratic Club; Treasurer, Alpha Phi Omega; Editor, CCNY Student Directory '60-'61; Chairman, Spring '61 College Boatride; Freshman "Big Brother"; Blood Bank Council; World University Service Council; Chairman, "Ugly Man On Campus" Charity Drive; Co-Chairman, Student-Faculty 'mas — Chanukah Sing; City College Band; Copy Editor, Tech News; Business Director and Advisory Editor, Microcosm '62; Editor, Microcosm '61; Associate Editor, Microcosm '60; Editor, Senior Newsletter; Co-Editor, Beavers Handbook; Vice-Chairman, CCNY Stevenson for President Committee; Vice-Chairman, CCNY Democratic Campaign Committee; Executive Board Member and Treasurer, Conference of Democratic Students.

PI TAU SIGMA and ASME

Present Prof. Edward C. Mack who will speak on "The Plight of the Intellectual in the Modern World," Thurs. Dec. 14, 12:30 P.M., Room 126 Shepard. All are welcome.



Les Fraidstern

LES FRAIDSTERN (@)

Associate Vice-President of Student Government; Student Council Representative (2 terms); Member, Student-Faculty Cafeteria Committee; Member, Student-Faculty Bookstore Committee; Member of S.G. Academic Affairs Committee; Delegate to U.S.N.S.A. Congress; Delegate to the Conference of Student Leaders of the City University; Member, Young Democratic Club; Member, History Society; Member, NAACP; Member, Student Committee for Hamilton Grange; Member, House Plan Association.



Len Machtinger

LEONARD MACHTINGER (I)

Associate Vice-President for clubs and organizations.

Member of Student Council—two terms.

Young Democrats: formerly Vice-President, Executive Comm.

Debating Society: Varsity, former Secretary, former Treasurer.

Students for Kennedy.

Journal of Social Studies. Chairman of City Delegation to Brooklyn Model Dem. Convention.

Bren for President

The platforms of the three presidential candidates are all in rather good agreement. Nothing has been picked out as especially controversial or as a point of strong disagreement as was the "students as students" clause in the last election. They all are in favor of more and better everything for the students.

All three have served on the executive committee of Student Council and on various Student Government committees. None have been especially impressive; they have not demonstrated the strength or outstanding leadership that a president must provide.

However, one candidate, Fred Bren, has devoted a whole section of his platform toward North Campus students. It promises action on North Campus needs like lounges, better lighting, a bookstore outlet, mimeo services, and a cloak room. Doubtless, a pledge to attempt is not a pledge to do, but this comprehensive program is more than the other candidates have put forward.

Discussing the Student Activities Board, Machtinger and Bren would give federations first approval power over constitutions. Fraidstern says that the federation would first have to be investigated. He doubts that TIIC should be given such power now.

All agree that under the new constitution the S.G. Fee Commission would have to be altered from its present setup of four members and the SG treasurer to give a fairer representation to all groups, including organizations from the School of Technology.

Forkosch for Veep

Of the three vice presidential candidates, we feel that Joel Forkosch is best suited for the job. Again, all three have served on Student Council and are familiar with its operation. Although dissenting opinion is an aid to an exec committee reaching a well considered conclusion, we feel that Mr. Berkowitz's carping would be more of a hindrance than a help to SG exec. Between Shepard and Forkosch, we chose Forkosch because of his longer stay in the school and his more recent experience with council.

Endorsements and Qualifications of Candidates
Continued on Page 2

Vote Yes On Tech News Referendum

Vice Presidential Candidates

JOEL A. FORKOSCH (*)

Member, Student Council Fall '61.

Member, S.G. Fee Committee.

Member, Academic Affairs Committee of S.G.

Member, of Phi Sigma Delta, Beta Chapter.

Member, Student Committee for Hamilton Grange.

Staff Member, The Campus, Spring '59.

Member, Class of '62 Council.

HERB BERKOWITZ

President of the Class of 1963. President of the Society for Criticism and Discussion.

Vice-President of the Society for Criticism and Discussion.

Student Council Representative — two terms.

Chairman of the Student Council School Affairs Committee.

Delegate to the 14th National Student Association Congress. Member of the S.G. Fee Committee.

Director of the S.G. Public Opinion Research Bureau—two terms.

Member of the Special S.G. Committee on the Heald Report.

Member and Parliamentarian of the House Plan Council.

Vice-President and Secretary of Wittes '63.

Member of the Student Committee for Hamilton Grange.

RICHARD SCHEPARD (R)

Member, Student Council.

Member Student Council Fee Commission.

Member, Student Council Academic Affairs Committee.

Chairman, Facilities Agency.

Asst. Personnel Chairman of Finley Board of Managers.

Bloom for Treasurer

Ira is no newcomer to Student Council. Though only a sophomore, he has already served two terms on council, one of them as secretary. Council thought so highly of him that they suspended the by-laws to elect him to the secretaryship. He has not disappointed them. He would be the only man for the job no matter who ran against him.



Ira Bloom

IRA BLOOM

Student Government Fee Commission.

Student Government Exec. Committee.

Varsity Debating Team.

Student Council Rep. '64.

Student Gov't. School Affairs Committee.

Houseplan Leadership Training Conference.

Weisberg for Secretary

We feel that Richie Weisberg is by far the better secretarial candidate. Though both Levine and Weisberg have served on Council this term, there is little comparison between the active role Weisberg has played in Council discussion and as chairman of the School Affairs Committee and the quiet role of Levine. The same pattern of vigor versus lack of it was displayed in answering the questions asked at our interview. Vote Weisberg for Secretary.

Secretorial Candidates

RICHIE WEISBERG (R)

Student Council Member.

Chairman School Affairs Committee.

Junior Class Council.

Freshman Advisor H.P.A.

Houseplan Council.

Beaver Broadcasters Club.

S.G. Membership Committee.

Wittes '63.

ROBERT LEVINE (@)

Member, Student Council.

Member, Student Council Internal Affairs Committee.

Chairman, S.G. Public Opinion Research Bureau — two terms.

Chairman, S.G. Publicity Committee — two terms.

Member, Sophomore Class Council.

Delegate, Barnard College Regional Civil Rights Action Conference.

Member, ACLU.

Member, NAACP.

Member, Young Democrats.

Member, Railroad Club.

Member, Student Committee for Hamilton Grange.

Lederman, Graber for SFCSA

Linda Lederman combines a good knowledge of the workings of SFCSA with a thorough knowledge of school affairs. She has served as secretary of Student Government, on the Finley Center Board of Managers, and in other responsible positions. Her views on various student matters are clear and well thought out. She is eminently suited for the position.

Linda Graber, too, has an intimate knowledge of the workings of the committee. Her range of participation in student affairs includes Blood Bank, Tech News, Microcosm, Student Council, class of '63 treasurer, her sorority, etc. We believe she would be an able member of the committee.

(@) Constructive Action Party
(!) Student Action Slate
(R) Reform
(*) Start Achieving Benefits
(y) Your Engineering Slate
(c) Sophomore Independent Party
(S) Class of '64 Student Party

SFCSA Candidates

LINDA GRABER (Ry)

Junior Class Treasurer '63. Beta Lambda Phi—President & Treasurer, Tech News business manager, Microcosm '62 business manager, Bloodbank Council president, World University Service Vice-President, Senior Newsletter '62 — Business Manager, Junior Newsletter '62 — Business Manager, Social Functions Agency of Student Government — Co-Chairman.



Linda Graber



Linda Lederman

LINDA LEDERMAN (@)

Student Government Secretary, Art Chairman on Finley Board of Managers (two terms), Student Council Representative '63, Chairman of Student Government Honors and Awards Dinner, Member of Student Faculty Fee Commission, Member Gamma Sigma Sigma, Vice-President of Sis Wiley '63.



Mike Wachtell

MICHAEL WACHTELL (R)

Vice-President — Interfraternity Council.

Secretary — Z.B.T.

Big Brother Program.

S.G. Faculties Agency.

AIEE-IRE.

Student Council

'62 Student Council

ED BEISER (@)

S.G. 2 terms on Council, Associate Vice-President, Chairman, Academic Affairs Committee; Membership.

Debating Society, President, Vice-President, Manager.

Hillel — 4 terms on Hillel Council.

Harris '62 (House Plan) member.

Areopagus Honor Society.

SHELLEY BLUM (@)

STUART CHUZMIR (!)

President — Government and Law Society, term beginning September, 1961.

Vice-President — Government and Law Society, February, 1961. Treasurer — Government and Law Society, Sept. 1960.

Chairman of Publicity Committee — Gov't and Law Society, Feb. 1960.

Member of: Areopagus, Student Committee for Hamilton Grange, Omicron Chi Epsilon, Phi Beta Kappa.

ALAN GOTTHELF

Senior Class: Vice-president. Student Government Public Affairs Forum: Chairman.

Flight to Europe '59: Assistant Director.

Student - Faculty Cafeteria Committee.

Young Democrats: Policy Committee, Chairman.

Modern Jazz Society: President, Treasurer.

Student Committee for Hamilton Grange.

'63 Student Council

TED BROWN (@)

Member, SFCSA; Student Council Rep; Chairman, Secretary, Student-Faculty Committee on the College of Liberal Arts and Sciences; President, Class of '63; Member, S.G. Fee Committee; Member, S.G. School Affairs Committee; President, Vice-President, Society for Criticism and Discussion; Assistant Director, S.G. Public Opinion Research Bureau.

LINDA S. GRABER (yR)

Beta Lambda Phi Sorority — President, Treasurer.

Tech News — Business Manager, Advertising Manager.

Blood Bank Council — President, Mobile Chairman.

World University Service — Vice-President, Canister Co-Chairman.

Class of '63, Junior Class Treasurer.

Microcosm '62 Business Manager.

Social Function Agency Co-Chairman.

Big Brother.

Senior Newsletter '61 Business Mgr.

Junior Newsletter '62 — Business Editor.

MICHAEL MEZEY (@)

Fall '61 — Treasurer — Wittes Dynasty.

Spring '61 — Corresponding Secretary — Wittes '63.

Fall '60 — Sub-chairman HP Public Relations Committee.

RICHARD SCHWEIDEL

Blood Bank Council.

Interfraternity Council.

History Society.

Hillel.

Tau Epsilon Phi.

SHEILA SEIDMAN (R)

IFC Scholarship Chairman. Social Chairman, Sigma Tau Delta Sorority.

Big Sister.

MARC TRIEBWASSER

Served for four terms on the Council of the B'nai B'rith Hillel Foundation at C.C.N.Y.

Served as Copy Editor and staff writer on Tech News.

Served as a member of the Student Government Cultural Agency.

Served on the Hillel Committee on Student Government Formation.

Served on the Hillel Committee on Academic Freedom.

Served on the Hillel Constitutional Committee.

HARVEY KAPLAN

MARK KESSEL (R)

STEVE REBACH

STEPHEN SEPANSKI (R)

'64 Student Council

BOB ATKINS (!)

President of City College Congress of Racial Equality.

Picket leader at the boycott of classes.

Temporary chairman of the AD HOC committee for Academic Freedom.

Proposed picket captain of the City College contingent at the picket at the Administrative Council.

ALAN S. BLUME (Rc)

Class '64 Student Council Representative (2 terms).

Freshman Class Council Class '64.

Student Government Academic Affairs Committee.

Student Government Internal Affairs Committee.

Student Government Boat Committee — April '61.

Student Government Fee Commission.

Government and Law Society Social Representative — G.S.S. '64.

Freshman Baseball Team.

LEONARD DEUTSCH (@)

SAMUEL EIFERMAN (Ry)

Present member of the Student Council for last two terms.

Present member of the Academic Affairs Committee of Student Government for last two terms.

Present representative on Technology Intersociety Interfraternity Council.

Member of the Student Faculty Bookstore Committee two terms.

Present member of the School of Technology Standing Committee.

Member of the Student Government Boatribe Committee last term.

MEZEY (@) Member of the Class of '64 Class Council.
Member of the Social Functions Agency of Student Government last term.
Present Circulation Manager Tech News.
Present Freshman Advisor in House Plan Association.
Present member of the Social Functions Committee of House Plan Association for the last two terms.
Member of the Athletic Committee of House Plan Association last term.
Member of the R.O.T.C. Fife, Drum, and Bugle Corps. for the last three terms.

ARJORY D. FIELDS 303 (@)
Two semesters on Student Council, Spring and Fall '61.
One semester on the Academic Affairs Committee of S.C., Spring '61.
One semester as Chairman of Internal Affairs Committee S.C., Fall '61.
National Student Association Congress Delegate, Summer '61.
Delegate to the Spring and Fall Regional Assemblies of the New York region of NSA 1961.
NSA Coordinator 1961-1962 academic year.
Member of Student Government Committee on the Health Report.
Student Government representative to the Conference on the Foreign Student in New York, Spring 1961.
Student Government representative to the Conference on the Role of the Intellectual in Modern Society, Spring 1961.

DANIELLE FRAENKEL (@)
Chairman, House Plan Community Service Committee, Fall '61.
Student Government NSA Committee, Fall '61.
House Plan Council Representative, Fall '60, Spring '61.
Collegiate Council for the United Nations, Spring '61.
Freshman Advisor, Fall '61.
House Plan Leadership Training Weekend, Fall '60, Spring '61.

RONALD GOLDBERG
MBE Member, Tremain '64.
Community Service Committee.
Student Government Publicity Committee.

MEL HALLERMAN (!)
Director of the Student Government Bureau of Public Opinion Research.
Asst. Director of the Student Government Bureau of Public Opinion Research.
Member of Young Democrats.
Captain of House Plan Bowling Team — Downer '64 — for 1 year.

JUDY KAUFMAN (@)
Secretary — Class of '64, Fall '61.
Editor-in-Chief — Class of '64 News Letter, Fall, '61.
Vice-President of my House Plan, Fall, '60 and Spring, '61.
Attended House Plan Leadership Training Weekends, Fall, '60 and Spring, '61.
House Plan Council Representative, Fall, '60 and Spring, '61.
Features Editor — Class of '64 News Letter, Spring, '61.

EDWARD KLAPHOLZ (!)
Executive member and chairman of the Membership Committee of the City College

Young Democratic Club.
Chairman of the Bronx County Students for Wagner.
Executive member of the Bronx-Pelham Reform Democratic Club.
Representative in the Senior Class Council in high school.
Student Government class representative in high school.

BOB ROSENBERG (R)

Class Council Representative, Class of '64 — Fall Term, 1961.

ROBERT PADGUG

President, Downer '64 House Plan.
Council Representative, House Plan Association (Spring, 1961).
Co-Chairman of a House Plan Association committee whose purpose it is to inform high school students about the City College.

LARRY STEINHAEUER (!)

RICHARD WESTON (Rc)
Interfraternity Council Rush Chairman.
Blood Bank Publicity Co-chairman, 1961-62.
Microcosm '61, circulation and sales staff.
Interfraternity Council Delegate.
Alpha Epsilon Pi fraternity, scholarship committee, social committee.

'65 Student Council

P. MICHAEL ENGEL

Studying for B.A. degree.
Member of House Plan Assoc.
—Dean '65 Hous.
Member of Young Democrats of CCNY.
Member of Beaver Broadcasters Club—Announcer.
Member of CCNY Mercury.

SUSAN JAYE (!)

Facilities Agency—Chairman.
Community Service Committee, Service Agency—Chairman.
Spotlight — Copy Editor.
Senior Newsletter—Secretary.
Microcosm — Member of the Business Staff.
Social Functions Agency — Member.

STEPHEN H. MARCUS (YR)

Chairman of petitions for the Student Committee for Hamilton Grange; member of executive board of that committee.
Acting secretary of the National Student Association Committee.
Member of the Debating Society.
Member of House Plan.

LESLIE RUBIN (R)

Member, Student Government Public Opinion Research Bureau.

Member, Student Government Social Functions Agency.
Member, Young Democrats.

ADELE SCHREIBSTEIN (@)

Student Council Representative of the Class of '65.
SG Civil Liberties Committee.
Chairman SG Membership Committee.

STEVE SPILKY

Member, Facilities Agency of SG.
Member, Yavneh.
Member, Society of Orthodox Jewish Scientists.

FOBERT H. WEINBERG

Member of the Amateur Radio Society.

GERALD ABRAMS

STEPHEN CAGAN
GAIL DORNFEST
RONALD DRESSLER
DAVID KINKELSTEIN
MARTIN KAUFMAN
ALAN LEVANTHAL
LAWRENCE LEWIS
MICHAEL LIPPMANS
VIVIEN NEWMAN (@)
HOWARD PRICE
RAY PRICE (R)
CHESTER RUBACKIN
HOWARD SIMON (@)
CARL WEITZMAN (R)

UPBEAT FOR GABRIEL

Enter the prof; he's slightly late;
Panic scurries through the room;
He carries yellow sheets of fate,
Heralds of impending doom.

Dire thoughts on how you'll fare;
Cerebral vacuum getting worse;
Time for just a final prayer,
And after that, a final curse.

You scan the question feeling numb;
The mental fog's becoming dense;
This course may yet be overcome,
But only three or four terms hence.

Problem one look kind of long;
Two and three you can't attack;
You know that number four is wrong,
And things are looking mighty black.

The mark you get confirms your fear,
And though you're reeling from the punch
This test has made one fact quite clear:
Next year you're majoring in Lunch.

Bob Tutelman



It's what's up front that counts

FILTER-BLEND is yours in Winston and only Winston.
Up front you get rich golden tobaccos specially selected and specially processed for filter smoking. Smoke Winston.



R. J. Reynolds Tobacco Co., Winston-Salem, N. C.

WINSTON TASTES GOOD like a cigarette should!



TECH NEWS

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

Critical Congrats

We would like to congratulate and criticize the tech leaders who have stirred the lethargic engineer into an awareness for the need of a fairer hand in student leadership in S.G. Though we will criticize the "Secessionists" cry as a shocking maneuver, it did awaken the entire student body to the miscarriage of funds away from a group that comprises one-third of the student body.

The new political bosses of the school of technology have also made a few critical discoveries that should be considered by leaders of Student Government, present and future. They are asking for more than one committee to comprise the proposed Student Activities Board, (SAB) so that the engineering organizations might receive a fairer share of the fee allotments. They propose that the SAB have representatives from the School of Technology, the School of Liberal Arts and Sciences, etc. This is a very important observation since the present situation shows a lack of Tech representation on any of the fee allotment committees.

Another proposal, the need for mimeograph services on North Campus, is a desired reality that is desperately lacking for all organization of the North Campus.

Nevertheless, we find it appalling for such a hopeful group as TIIC and the new engineering slate, "YES," to behave like a confused child and cry out in public that he will run away if he doesn't get his allowance; then, after the secessionist scare, to retire into a silence, without further explanations.

If it is possible, we will try to complete this gap of history with these observations of the past weeks.

1. The TIIC leaders knew very little about the proposed changes in S.G. before they made the "Secessionist" scare.
2. Engineering groups knew nothing about the formula for money allocations to student groups on campus.
3. Secession itself was illegal.

Since a previous TIIC meeting, the furor of Tech secession has vanished. Why?

1. Tech leaders learned that the newly proposed Federation system of student government will give them, possibly, the largest representation at the College. For example; the engineering student body is represented by TIIC and its total membership is approximately 2,000 students. The next largest organization on campus is House Plan which has 1,500 members. We might therefore realize the greatest number of representatives.
2. Tech organization might have received the needed funds for their various activities if they knew about the "formula" for fee allotments. Such activities as a smoker on this formula cannot receive funds, (as many officers of Tech Organizations have found out), but by calling it a Student-Faculty Skit, etc., funds might have been allotted.
3. Engineering leaders had claimed that many smaller organizations have rooms in Finley Center while they, with a membership of many times these smaller organizations, had none. Nevertheless, no engineering group asked for room space in Finley Center. Only recently, have any organizations requested a mail box in Finley Center. They have gotten their request.

Some of these observations and the final revelations have been the factors behind the "Secession" and later silence.

All we can offer as constructive is the hope that the

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Letters

Dear Editor:

In reference to the letter printed in the November 20th issue of "Tech News," I would like to point out certain things brought out by this letter which are erroneous.

When the Finley Student Center was originally opened, the Technology organizations were assigned one of the largest rooms in the building for its use. This room, 421 Finley, was used occasionally by S.A.M.E. for one year, and when a member of the D.S.L. inspected the room, the wrapping paper protecting the files had never even been broken.

Because of this, the Finley Board of Managers felt that since only one group had made any use of the Student Center, it would be wiser to assign a room to S.A.M.E. and wait for other Technology organizations to apply. It was only recently that the Technology co-ordinating council requested office space which was granted to them, although it is used only by three or four members of THIC.

In the beginning of this term, the Board of Managers circulated application to all groups for room allocations. Only "Vector," THIC and "Tech News" applied; for this reason, these were the only Technology organizations to receive office space in the Finley Student Center.

The remainder of Mr. Nadan's letter was incomplete and misleading. There is never any discrimination against a group simply because it is a "Tech group."

It is hoped that in publishing this letter, certain misunderstandings among the Technology students as to the reason behind actions taken in Student Government will be cleared up.

Yours truly,
Paul Blake
Chairman
Board of Managers
Finley Center

Dear Editor:

In the November 29 edition of TECH NEWS, a letter appeared that was highly critical of the present arrangement for the allocation of fees. No doubt improvement can be made, but it is not the purpose of this letter to suggest them. Instead, I find that a fellow engineering student has lost all sight of his role in an even larger college community. When an engineer divorces himself from the South Campus he denies himself the college's market place for ideas, talks, and personalities.

My fellow engineering student really outdoes himself in asserting that discrimination against the Tech School is of a deliberate and uncompromising nature. His logic is a bit "screwy." I quote from that letter: "Campus and O.P. give views on the news from a different angle than TECH NEWS and thus by giving Campus and O.P. a total fee allocation which is about four times that of TECH NEWS, S.G. is able to express their views much more frequently than the Tech student." It is important to notice that the writer fears the expression of ideas by a student government which represents BOTH North and South Campus. Though the Tech student may not agree with every view of SG, let him not forget that he is eligible to vote and decide

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Steinman Hall Will House "Tech" Mural

A City College committee has sent a letter to the council of the National Academy of Design asking them to consider the work of eight artists to help decide which would be commissioned to erect a mural in Steinman Hall. The mural would be approximately eight feet by forty and will be displayed in the lobby of Steinman Hall on the west wall.

Two weeks ago the committee, consisting of Dean Allan, Professor Kolodney, Dean Hyman, and Professor Fabri of the art department, met to discuss examples of the representative of eight artists. It was decided that the National Academy of Design's council would be re-



Dean Allan

quested to name a committee of three to decide which four of these artists would be invited to submit sketches of an intended work for the tech building. An honorarium of \$200 will be offered for each "cartoon."

The City College committee would then make the final decision together with the Academy's committee on the basis of the sketches and possible interviews with the artists. The school committee has indicated a preference for a mural executed in materials such as mosaic, plastic, or metal rather than paint. There is also some feeling that the mural should be three dimensional rather than flat.

Funds for the mural will be provided by the City College Fund. The Fund is now soliciting out solicitations for a mural in its regular mail. However, the City College has guaranteed the Engineering Alumni Association a minimum of \$15,000 for the decorative work. The Engineering Alumni are not empowered to solicit funds on their own for a mural.

The Engineering Alumni Association is the original sponsor of the mural. Last year a committee of the Tech Alumni formed to facilitate erection of a mural. The committee had discussions with the administration, which supported the idea and the City College Fund administrators, who agreed to support it financially.

While still keeping up its progress, the Tech Alumni then gave the project over to a school committee, chaired by Dean Allan, Dean of the School of Technology. Dean Allan stated that although no specific schedule has been set up, he believes that it will be finished in spring. He indicated that it is fairly certain that the mural will be finished before class start in September.

Chem. E. Machinery Is Displayed At Coliseum

Last week the doors of the New York Coliseum were opened for 28th Exposition of Chemical Industries. This year's exposition, the largest ever, contained over 500 exhibits spread over the massive building's four floors. At each booth were representatives of the exhibiting companies poised to answer the inquiries of the interested visitors.

This year's show further illustrated the battle that is continuously going on between Operating Management men and rising costs. The progress towards greater production at lower costs was indicated by the improved techniques, more advanced equipment, and the newer raw materials and intermediates on display. "Automatic Big Complex;" These are the words used by Chemical and Engineering News to describe the trends in CPI processing. The greater size and complexity of the equipment on exhibition is totally visible, especially in that part of the show containing the machinery used for the treatment of raw materials and intermediates. The crushers, blenders, mixers, grinders, agitators, and centrifugals were examples of the manufacturers attempt to put more punch and greater productive capacity into their machinery. Automatic operation is another trend increasingly finding use in various phases of the industry. This

year its effects were found several new fronts, including size reduction, filtering, bulk handling equipment. The Computers Company stored logic control computers were examples of the emphasis being put upon electrical programming devices. The extreme temperatures and corrosive reactions being increasingly encountered in the industrial processes have caused many problems. Such price differences in machinery are almost negligible; there is a great demand for purer substances for the same money. This demand for purer substances pressure to be put on the manufacturers for machinery of corrosion resistant materials. The Fansteel Corporation's solution to corrosion in the various steel alloys, Tantalum, Tungsten, and Molybdenum. Du Pont presented answer in their various fluorocarbon resins sold under the trade name Teflon. The glass industry, strongly represented by Pyrex and Kimble, were in upon the benefits of their products.

A special section of the show was devoted to laboratory equipment and supplies. The Chem-Tek booth contained an amazing precision balances, of these had a capacity of milligrams and was accurate to a tenth of a microgram. But instruments exhibited

(Continued on Page 8)

Will Mura TECH LIFE

By MAURICE BLUESTEIN



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In just a few days from now, Christmas vacation, 1961, will be upon us. I would urge tech students to make use of this time of leisure to give some thought to what lies ahead some months from now. I refer to June, 1962 — after finals. For some, June, 1962, will mean graduation. I am quite sure that these people are already thinking about what comes after June. But I have found through my worldly travels that by and large, the upper senior is not doing his job. He has a responsibility to himself to do his utmost to find the right position for himself after graduation — be it in employment, graduate school, or the armed forces. Consider employment: the majority of graduating seniors are content to sign up for job interviews with the placement office and hide their time until an offer appears. I would like to remind these people that not every company in the world is at the beck and call of the placement office. There are a number of fine companies which do not interview on campus, yet maintain an employment program similar to those that do. I can offer as a prime example Boeing Airplane Co., one of the top in the aircraft industry, which is not seen on our campus. These companies are open for business; a letter will get you started on the road. Information on these many companies is available in the "College Placement Annual," a yearly publication, copies of which may be obtained in the placement office. You may very well find a company to your liking there.

Seniors who plan on entering graduate school next fall had better get started now. This is particularly so if you are hoping to receive some financial aid such as a fellowship. Many schools accept applications only up to the early Spring for the Fall of that year. The prospective candidate should obtain information regarding the graduate school as soon as possible. From the curriculum described, he can choose the best course of study. As to which schools to select, probably the best idea is to speak to people who are familiar with other schools in the country, and every college, including this one, has that kind of people. In this vein, don't overlook the possibility of graduate study in a field other than engineering, such as business administration, law or medicine. People with engineering backgrounds are needed in these fields.

I mentioned the armed forces as an alternative; don't overlook this possibility. Most of us men will be required to give some service sometime in our lives. It is usually best to get it over with as soon as possible. Note that service is far from a total loss; it is possible to obtain important technical training in many fields while in service which will be of good use later on. Also most veterans agree that their physical condition was markedly improved after their hitch. If nothing else, it will give you that Vic Tanny look.

There will be other students for whom June, 1962, means getting a summer job. Many engineering students are coming to realize the value of summer work in engineering, but for most, the prospects are dim. Actually the only way to find out is for you to try for technical summer employment. You may be very surprised at the number of technical jobs available, many even close to home. Of course, I am speaking now to the upper termers near the top of the class. And when I say near, I don't mean next to; it is quite easy for men in the top ten per cent of the class to get discouraged.

Some tips I can throw out for summer job-seekers are: 1) Make use of companies within travelling distance from your home for personal contact. Drive out to the many firms in the metropolitan area and speak with the personnel people. There is a wealth of companies on Long Island, along the Connecticut shore, and in Northern New Jersey. 2) Obtain leads from the placement office; they get many inquiries for summer employment. 3) Prepare the best resume you can and see that as many people as possible get a look at it. 4) In 99 of a hundred cases, someone you, or a member of your family knows, is a practicing engineer or scientist. Make use of all possible contacts. 5) Keep trying and don't lose hope. The very last possibility may land you the job. It landed my last job.

For an old tech student like myself, it is a pleasure to see some of that tech spirit coming to life in the present student government election. Surely the fever is higher than it has been in a long time in the tech school. The question is whether the flame will continue to burn after the election is over or whether it will be reduced to the previous flicker. As far as the engineering school is concerned, the important thing is keeping up the spirit, not winning or losing this election. For people who are interested in the affairs of the school and the student government, there will always be positions to fill and jobs to perform. Two of the most active people in student affairs during the past term, Mr. Machtinger and Mr. Fraidstern, who are the present candidates for SG President, were defeated in last term's regular election!

The engineering slate of candidates has made proposals and issued charges. Opposing factions have issued countercharges and made other proposals. This is nothing new, and this will continue up until post time; it is all part of the political ballyhoo that is elections. It is up to the individual student as a voter to decide which candidate deserves his vote. But a ballot is only good once; it is popular interest that succeeds year after year. Thus your best "vote" for the tech school is to participate and be concerned with school affairs before, during, and after every student election.

TBPI Will Offer Free Tutoring

Starting on Monday, November 20th and continuing until one week before final examinations, Tau Beta Pi, the honorary engineering society, will offer free tutoring to those students who are having difficulty in Physics 7 and Mathematics 7. Appointments for tutoring in Physics 7 may be made through Mr. McLaughlin in the physics department office. Appointments in Mathematics may be made through the mathematics department office. Students will be assigned to meet with the Tau Beta Pi tutor during one specific hour each week. Hours during which tutoring is conducted are posted on the Tau Beta Pi bulletin board at Tech Crossroads in Goethals Hall, the Physics Department bulletin board (opposite room 09 Shepard Hall), and the Mathematics Department bulletin board.

Letter...

(Continued from Page 4)

an outcome. Maybe now, with the new Tech party, those empty Tech council seats will be filled.

One may also get the idea that TECH NEWS tells the same college news in a different fashion which is particularly suited to the mind of the engineering student. (TECH NEWS has only larger print.) Whereas TECH NEWS attempts to print "engineering news," it is illogical to think that the Tech School has an equal amount of news to print with that of O.P. or Campus which attempt to cover the entire college scene.

I do hope that Tech students will fight for those rights which duly belong to them.

Martin Miller, 507

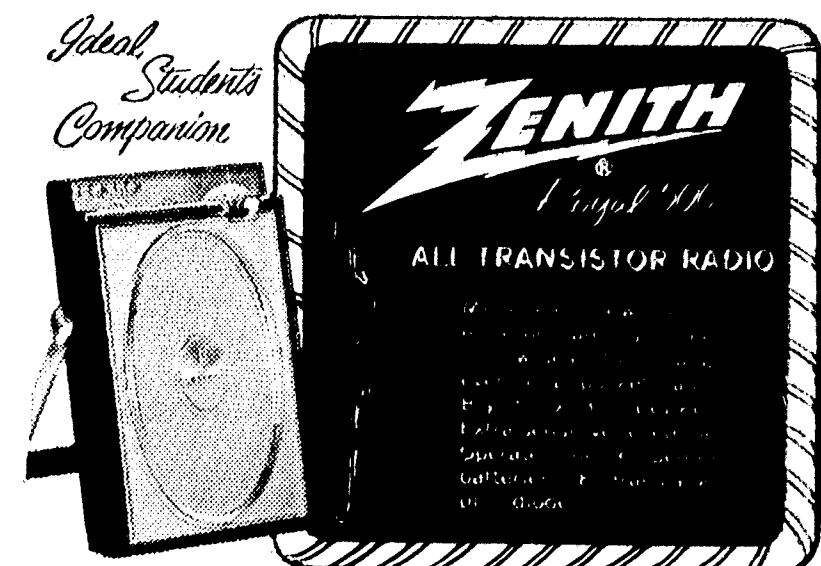
Editorial...

(Continued from Page 4)

engineers who desire and try to achieve respect on all levels learn that in order to receive the respect of Student Government, after all these years of indifference, is to act as though you deserve respect. Above all, don't participate in the fight until you know the rules and regulations.

Gib Vlood

The bloodmobile is in Knittle Lounge today, waiting to accept your contribution toward saving the life of a fellow City College student. The CCNY Blood Bank enables students to get blood for themselves or for a member of their immediate family. It is shameful that not enough donations are received to give the full amounts of blood needed by students. Take the time out today to give. You will feel very good inside when you do.



AVAILABLE AT YOUR AUTHORIZED ZENITH DEALER

Paid Political Announcement

Just Because Tech. Has No Politicians,
Is No Reason
To Call the Student Body Up North,
2nd Class Citizens.
Why Back the Politicians.
Vote For
NEIL DUMAS
for
SENIOR CLASS PRESIDENT

SIC FLICS



"What'll it be, Miss Porter...
the Dokes or us?"



21 GREAT TOBACCOS MAKE 20 WONDERFUL SMOKES!
AGED MILD. BLENDED MILD - NOT FILTERED MILD - THEY SATISFY

Basketball's New Beginning-S.R.L.

By MARV KASPER

A few weeks ago the member organizations of the Technology Interfraternity Intersociety Council decided to sponsor a basketball league. The league was in existence a few years ago but was disbanded due to a lack of interest, on the part of its member organizations. James White the president of ASCE is the main sponsor of the Slide Rule League.

The first games are scheduled on December 20 at 6:30 p.m. between ASCE and Eta Kappa Nu and on December 21 at 6:30 p.m. between the Architectural Society and A.M.E. These are the only two games scheduled by the league during this term. Mr. White stated that these dates were the only ones available because the league was started late in the term. The Slide Rule League will accept independent teams of engineers if they wish to join the league.

Anyone who wishes to play basketball at night must obtain the blue evening session cards from the medical office. If they have not taken a physical recently they will be required to take one in order to receive their cards. Mr. White pointed

(Continued on Page 8)

ChE 260 Is In Bench Scale

The equipment for Chem E 260, the unit operations lab course, will not be ready for us in the new building next term. The equipment has already been disassembled in Baskerville and will be moved next term. In its place will be much smaller "bench scale" equipment, described by Prof. Schmidt, chairman of the Chemical Engineering department, as good as the larger equipment for instructional purposes. The course is described as a quantitative laboratory study of unit operations, such as filtration, drying, and fluid flow, and ordinarily uses pilot plant machinery. Computers will be used as part of the course for the first time next term. This is expected to make the course more valuable and may become part of the regular course.

Last semester, due to the fact that the course was not given this term, a "concentrated course" was given after the term ended. This successfully prevented any student from having his graduation delayed. The two credit course was completed in six school days. The laboratories were open to students from 8:00 a.m. to 7:00 p.m. and a complete experiment had to be done each day. The lab reports were due two days after the course ended, leaving students with their work really cut out for them. Projecting this over a full semester, sixteen credits of engineering courses could be completed in nine and one-half weeks. At this rate, a Tech student could graduate in slightly less than two years.

Prof. Schmidt expects the pilot plant equipment to be ready for use in the new building in the Fall term of 1962. A new course, called "The Measurement and Control of Process Variables with Computers," will also be initiated in Fall '62. The concentrated, or "interim" course is not expected to be necessary again.

Rosengart

Dramsoc Gets Epitaph

By SAL FAVIA

Dramsoc's production of "Epitaph For George Dillon" opened last weekend. Fortunately, this tribute to mediocrity by John Osborne and Anthony Creighton also closed the same weekend. The play tells the story of a young actor-writer in modern day England struggling to become a success. In the process he is taken in by a lower middle class family, because the mother, who lost her son in the war, sees in him the aspirations and potential of the boy she lost. He, in turn, is glad to sponge off the family, and remain a parasite until his good fortune arrives, which (as in all good fairy tales) does come at the end.

As George Dillon, the unscrupulous actor, Robert Fried was powerfully inept and incompetent. Mr. Fried will have to understand that it's the actor's duty to act the lines and not merely read them. In the middle of the play he was supposed to be developing a case of tuberculosis, yet he looked and sounded more healthier than those of us in the audience who were suffering throughout the whole thing.

Fortunately, the same cannot be said about the rest of the cast who were in the main good, with one or two exceptions. Susan Elrauch and Sally Rose Stern as the aunt and mother of the family, respectively were both very good. Notwithstanding the fact that the latter had no British accent, she was very convincing as the sonless woman determined to mother Dillon. Likewise, Miss Elrauch displayed some fine acting as the middle aged frustrated spinster who flirted with the idea of becoming his mistress. The same can be said for Veeps Pomex, who did an excellent job as one of the daughters. Although it was not officially billed as a comedy, she presented a highly amusing portrayal. However, the same cannot

be said about the other daughter played by Renee Grubman. Her accent was all right, but her acting was a bit overdone.

The production was also blessed with the appearances of three of CCNY's finest young talents: I refer, of course, to Ted Warmbrand, Mark Walters, and Mark Polycon. Unfortunately, only one of them was able to perform very well while the other two suffered from bad lines and poor direction.

As the father of the family, Ted Warmbrand spoke his lines well and acted naturally, but the words of this play are mere hackneyed and trite. He was clever enough to realize the gravity of his situation, and hide himself as much as possible from the audience.

Walters, the star of "Matchmaker," was exceedingly good in his minor role as the man from the home relief board who came to investigate Dillon's eligibility for help. He neither underplayed nor overplayed his part. But was just right. Polycon, on the other hand, was good, but his performance as the producer who was going to help Dillon was marred by too much movement on the stage. Either the director, Barbara Hartman, thought he was a cross-country runner, or that a moving target is harder to hit. Otherwise this critic can find no other reason for his prancing about the stage like a jack rabbit.

Such foolishness was characteristic of the whole play and cannot be blamed entirely on Miss Hartman, for the play itself was bad by nature. In attempting to present a view of England today, Osborne and Creighton have constructed a conglomeration of badly written scenes. Some of them are silly, others are out of context, but all of them have nothing new or valuable to say. Particularly obnoxious is the device they use to inform the audience about character's background. They do it by the flashback in which both Miss Elrauch and Mr. Fried have to talk to an empty chair.

To sum it up "Epitaph for George Dillon" is a badly written play. It was badly directed and poorly presented. If Dramsoc continues to present such trash in the future then we shall have Epitaph for Dramsoc.

THE BELL TELEPHONE COMPANIES SALUTE: STEVE BANKS

Because of Steve Banks, who just two years ago was an undergraduate engineering student, the Bell Telephone System is closer to wiping out the noise (or "static") that sometimes interferes with telephone conversations.

On one of his first assignments, Steve examined the noise levels that had "leaked" into telephone circuits in

Colorado. His findings shed new light on the source of noise, and on the important methods of measuring it.

Steve Banks of Mountain States Telephone & Telegraph Company, and the other young engineers like him in Bell Telephone Companies throughout the country, help make your communications service the finest in the world.



BELL TELEPHONE COMPANIES



TELEPHONE MAN-OF-THE MONTH

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Marlboro

campus favorite in all 50 states!

*...It's a top seller at colleges from U.S.C. to Yale
...and 1st in the Flip-Top box in every single state*

If you think you're seeing more Marlboro men lately, you're right. More than 25,000 smokers all over the country are switching to Marlboro every month!

You'll know why when you try them.

Marlboro is the filter cigarette with the unfiltered taste. The secret of the flavor is the famous Marlboro recipe from Richmond, Virginia... and the pure white Selectrate filter that goes with it.

Try Marlboro and judge for yourself. On or off campus, you get a lot to like.



Flip-Top box or King-size pack

City Man Visits Ivy

By LANCE ARGAMBAUGH

A couple of weeks ago, I visited a friend at Ivy University in Outoftown, N.Y. Perhaps the most impressive thing about this college is its lack of apathy; the school spirit is nothing short of miraculous.

For instance, the ROTC Advanced Corps has better than 90% of the enrollment of the Basic Corps, and twice a term the entire student body (5000 strong) cut classes to watch the Cadet Review. Except for a few freshmen, nobody lives in the dorms, and the ever-growing fraternities are now bidding for real estate near the campus.

And Student Government (God bless its sacred name) is not the impotent discussion group it is at some colleges. No sir, no subway school this. The student council runs a disciplinary court, has the final say on courses of study for degrees, and has the authority to hire or fire teachers and cafeteria managers. Its power, in fact, extends into Outoftown, where SC claims territorial rights to jurisdiction in cases where students at the college are involved in minor crimes, such as speeding, panty raids, and hatchet murders.

While at Ivy, I had the great privilege of experiencing one of their typical weekends. Bright and early Saturday morning, a good part of the college population engaged in a mass migration to the Woolworth store in Outoftown to watch the Young Radicals and Young Reactionaries picket one another, while the Young Socialists, Young Liberals, Young Democrats, and Young Republicans heckled both sides and the Old Fogies (State Troopers) tried to keep the peace. A Student Council ruling has made it possible for a student to get three credits in Political Science for a term's active service in a "social action" group. This, incidentally, raised the ticklish question of how the student was to get the credit without submitting his name on a membership list. But a digress.

Saturday night, everyone on campus attended the weekly dance, which was held in a huge ballroom which occupies the largest building at the university. (This building had once been the library, but the books were removed after it was shown that only seven books had been borrowed in the previous three terms.

Sunday afternoon (of course,

S.R.L.

(Continued from Page 6)

out that seniors who must take medicals before they graduate can take them now and accomplish both ends. Regulation gym uniforms must be worn by all the players in the league.

Mr. White has done much work in organizing this league and hopes that it will encourage engineers to take a more active part in student affairs and will encourage the societies themselves to be more active on campus.

no one was awake Sunday morning) all the students jammed into the stadium to cheer their team on to victory. They generally win, too. (After the last game they lost, a hand grenade exploded in the visiting team's locker room. Investigation showed that it had been thrown by an Ivy fraternity pledge as a "stunt.") After the game, no hired help was needed to clean up the stadium. Instead, an army of undergrads in yellow socks attacked a similar mob of youths wearing charreouse berets for the honor of clearing the stands of empty cigarette packs.

The most common majors at Ivy are Phys. Ed., Business (Monkey, Funny, and Dirty in that order), and Theoretical Sex. (There was once a course in Practical Sex, but enrollment was greater than could be effectively administered, so, to be fair to everyone, the course was dropped from the curriculum. It is now an unsupervised extra-

Chem. Show... THIC...

(Continued from Page 4)

achievements in rapid evaporation under controlled temperature with their Flash Evaporator and Rotary Evapo-Mix.

The dazzling array of equipment, materials, and services on exhibition provided one of the most exciting industrial shows ever seen. Its fresh innovations, new achievements, and technical developments reflected the great progress being made in the chemical industries.

—Gelfand

curricular activity.) The engineering school was disbanded when most of the tech majors switched to liberal arts so that they would have enough time to join teams.

Or, in the immortal words of Student Government president Sally Ann Gungho, "Who cares about classes? Haven't we got academic freedom?"

THIC...

(Continued from Page 1)

3. To obtain lounge and office space at the North Campus of comparable luxury to those at the South Campus;

4. Heartily endorses TECH NEWS becoming an official publication of the City College;

5. Against tuition on the undergraduate level. THIC also endorsed the new proposed Student Government Constitution.

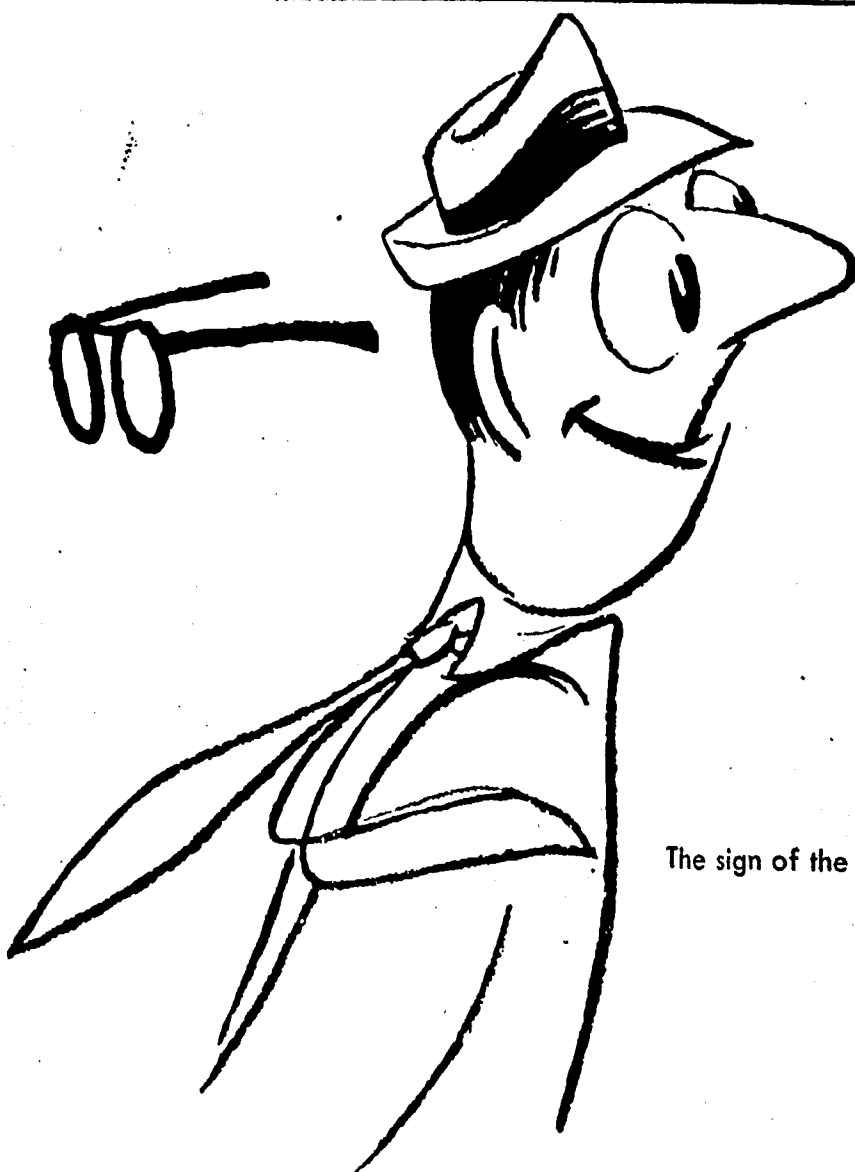
At the December 7 meeting of THIC endorsement procedure was held to determine which Presidential candidate would do more for the welfare of the technology student and the welfare of students at City College in general. THIC after reviewing platforms and qualifications, and listening to candidates speak, came out unanimously for Fred Bren and his Reform Slate. The council's decision was based primarily on the fact that Fred Bren's Reform platform

contained essentially the same improvements as the other platforms plus a few new ideas of Student Government. Another fact that helped determine the council's endorsement of Bren and his Reform platform was the fact that Bren stated definite ways of putting his Reform platform ideas into actual being in the Student Government while the others did not specifically state any way they would put their platform ideas into being.

Other business at the November 30 meeting was the re-statement of voting privileges to ENG and Vector. At the December 7 meeting AIEE and IRE asked for its voting privileges back; AIEE was accepted under the ruling that they attend the next three consecutive meetings of THIC before getting its vote back while IRE was rejected until the next meeting when a just ruling could be made on whether AIEE-IRE are one or two organizations.

Girl Watcher's Guide

Presented by Pall Mall Famous Cigarettes



The sign of the amateur

LESSON 5 - The importance of head control

We are told that bird watchers, who always take notes while they watch, are able to keep one eye on the bird and one eye on the notebook. Eye dexterity of this type is also a great asset to the girl watcher. It enables him to watch two girls at the same time, even when the girls are sitting on opposite sides of a classroom. The beginner,

who must watch the girls one at a time in a situation of this type, must learn to restrict his movements to the eyeballs. *The girl watcher never moves his head.* Undue head-turning, particularly if it is accompanied by shouts or whistles, is the sign of the amateur. (If you want something to shout about, try a Pall Mall!)

WHY BE AN AMATEUR? JOIN THE AMERICAN SOCIETY OF GIRL WATCHERS NOW!

FREE MEMBERSHIP CARD. Visit the editorial office of this publication for a free membership card in the world's only society devoted to discreet, but relentless, girl watching. Constitution of the society on reverse side of card.

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is so good
to your taste!

So smooth, so satisfying,
so downright smokeable!