Prof. Kerr Authors Book On Economic Psychology

William A. Kerr, an industrial psychologist at Illinois Institute of Technology, in a recently published book, claims that the psychology of monopoly causes the political for left and right to be in close agreement in their economic attitudes.

Writing in "Theory and Problems of Industrial Psychology," Dr. Kerr says that "psychological analysis indicates that the monopolist believes not in freedom and opportunity but in coercion and restrictions to maximize the role of central planning."

The book, published by William James Press (Brookline, Mass.), was written by Dr. Kerr and a former student, Florence W. Durban.

Continuing the discussion concerning the monopolist, the author states that "a central planning authority that is in the public interest, because the 'authority' is expert and the average citizen is not.

Such psychological analysis further reveals that 'both radicals and reactionaries favor 'gang rule' of the economy, so the economy can be exploited for the benefit of the gang.' Among the radicals, the 'gang is made up of the minority of communist party members or of the minority of socialists and bureaucrats who take power over themselves making money."

Among reactionaries, the gang is made up of the members of a ruling totalitarian party (such as Nazi, Fascist, Falangist, Peronist, etc.) who by various tactics seize the key wealth of an economic operate under the guise of various private monopolies and cartels with party backing in all key positions. "Monopolists advocate neither individual potential or freedom," the book continues. "They do believe that a man can earn too much, not just be paid too much. The free competition thinker does not believe that man can earn too much, provided that the rules of free competition are ob- served and monopoly is prevented."

Swingle Singers Will Perform On UB Series Ticket Dec. 10

"Swingle Singers," a group of French singers, with the exception of Ward Swingle, their founder, will perform here in the HUB auditorium on Dec. 10 at 8:30 p.m.

Tickets for the concert are available at the HUB newsstand for $5.50.

The "Swingle Singers" was formed in November, 1963. However, prior to this time, members of the group had met while working on different jobs in the numerous recording studios of Paris. The group had been formed with the idea of producing only one album of music that they all enjoyed.

Anonymity, which was the wish of the group, soon disappeared, due largely to their record's sales. The singers, therefore, wanted giving concerts and were forced to reveal their identities.

Ward Swingle is the director of the group and sings with the "Swingle Singers." The group is made up of four women-two sopranos and two contraltos-and four men-two tenors and two baritones.

The "Swingle Singers" are the third in a series of eight UB concerts.

ITSA Board Petitions Due Today; Election To Be Held Dec. 13, 14

Petitions for various positions on the ITSA Board of Control and several freshmen offices must be submitted by 5 p.m. today. All candidates interested should submit their petition, signed by 25 students eligible to vote in campus democracy, to the Dean of Students office.

Those positions to be filled include president, secretary, engineering representatives (3), liberal arts representative, arch-dean representative, independent community representative, dormitory representatives and freshmen class president.

Other positions open are: assistant treasurer, social chairman, and freshmen class officers—president, treasurer, secretary, and social chairman.

The order of the names on the ballots will be determined by the order in which the petitions are turned in. All candidates will receive information concerning campaign rules after turning in their petitions.

Elections for these positions will be held Dec. 13-14. There will be four polling places: Sigg House, HUB, dorm lounge, and Crown Hall. The polls will be open both days from 11 a.m. to 2 p.m. and 4 to 6 p.m.

Campaigning will start at noon on Dec. 8. All posters and materials must be taken down by 3 p.m., Thursday, Dec. 15.

Candidates for ITSA president and freshmen class president will campaign for their favorite candidate on page 12 in this issue of THE TECHNOLOGY NEWS.

The French "Swingle Singers," their musical accomplishment, and their director, Ward Swingle (lower right).

IIT Receives $44,000 NASA Grant For Study of Behavior of Liquid Fuels

Illinois Institute of Technology has received a $44,000 grant from the National Aeronautics and Space Administration (NASA). This grant will enable researchers to continue their investigation into the behavior of liquid fuels in simulated rocket chambers.

Dr. T. Paul Torda, the principal investigator on the project, is a professor of mechanical and aerospace engineering. He said the grant will enable him to continue the study of liquid propellants in high pressure and high temperature environments. The new grant runs to Oct. 31, 1967 and is a continuation of his previous 18-month long study.

The work, Dr. Torda said, involves the examination of what happens to liquid fuel under high pressures and high temperatures within a rocket motor. He and his students will continue to work with liquid alcohol, kerosene, and various types of liquid azo- carbons fuels in their experimenta- tion. In order to properly relate the variables, Dr. Torda and his research assistants have built a series of chambers to cover various ranges of pressure and temperature needed to carry out the investigation.

Explaining the various aspects of the experiment, Dr. Torda stated that the first experimental chamber utilizes high temperatures and relatively low pressures. A second chamber is equipped for 1000°F temperatures and pressure up to 500 psig, while the third chamber allows experiments with up to 12,000°F and 1,000 psig.

Under the new grant, Dr. Torda said, the researchers will build a wind tunnel where they will be able to circulate gases heated to 1000°F with a pressure of up to 1400 psig and investigate the behavior of liquid fuels—air mixture—in an efflux, a "non-burning, closed circuit rocket."
Tank Traps No Longer Funny; Temporary Repairs Advocated

The "Tank Traps" are no longer a joke. The torn up Wabash Avenue, as was pointed out in an earlier editorial in Technology News, is causing the Fraternity Quadrangle unique and numerous problems.

Various individuals and organizations have gone to administrative personnel to find out when something will be done, however, all attempts have failed.

According to popular belief, the construction of the fire lane for Wabash is to be done by a private contracting company (one employed by ITI) and not the City of Chicago.

As late as this week, surveyors from Skilmore, Owens, and Merrill were out on Wabash trying to get final plans for the project completed.

SOM was not called upon to survey the land, however, until the City had already torn up the street.

Even when the final plans for the project have been approved and the process of sending out bids and then awarding the contract has been completed, the Institute’s Board of Directors must approve the action.

With this in mind, administrative sources have said that they believe the fire lane will be finished “before winter.”

With a school of future engineers, it should not be too difficult to realize that, given the present weather conditions, the pouring of concrete in sub-freezing temperatures will produce a rather crumbled fire lane next spring or summer.

The Quad, thus, should be prepared for a winter of missed service deliveries, avoiding open manholes, and stumbling across the “bombed-out rubble” of what used to be Wabash Avenue.

Whether or not more planning on the part of the administration could have prevented the situation which exists is not the question.

What is more important is that the Quadrangle is in the midst of a definite peril. Something must be done to help this “crippled wing” of the campus.

Girls in full-length formal dresses should not be forced to walk through torn up, flooded streets. Fraternity members should not be forced to have their food delivered to another (more accessible) location, and then to pick it up themselves.

We have two suggestions which might help ease the condition. (1) Put a temporary hole in the fence bordering the Quad along Michigan Avenue in order to allow delivery trucks access to the houses on the Wabash Avenue side. (2) Construct some sort of temporary footbridges from the Quad to the south parking lot.

We hope the administration realizes the problem which exists for the Greeks and takes some action to help solve the problem.

**LETTER POLICY**

Letters to the editor are welcome. Such letters must be typed (double spaced), signed, and written in good taste. Anonymous letters will not be printed, but the writer’s name will be withheld upon request.

Letters should be limited to two hundred words. All letters which comply with the above requirements, will be printed at the discretion of the editor.

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**ELECTIONS POLICY**

All election materials for publication in "Technology News," including recommendations by organizations, must be submitted to Ray Murray, election commission chairman, at PKS fraternity no later than 5 pm on Monday, Dec. 6. Material submitted after this deadline will not be printed under any circumstances.

Statements of 500 words or less will be printed for each ITSA presidential candidate. Statements of 250 words or less will be printed for the remaining candidates for ITSA Board of Control positions, and for candidates for freshman class president only. No speeches for other freshwater class officers will be printed.

The Technology News photographer will be available from 2 pm until 4:30 pm, Tuesday, Dec. 6 at the Technology News office, room 127 HUB.

Those candidates wishing to have their photographs appear with their statements must have them taken during the above time, or submit them with their speeches to the elections commission.

For any questions regarding this election policy, contact Jay Fox or Mike Belletrie at DA 6-9830.

TN Hopes IFC Tutoring Plan Will Become Operative Shortly

The tutoring program as planned by the Interfraternity Council would have enabled school children from the neighborhood around ITI to obtain help in subjects such as reading, arithmetic, and general science from ITI students.

The idea of such a program is an excellent one, not only in the area of offering help to the children in their school work, but in fostering interaction between ITI and its community. One of the aspects of an education at ITI is its metropolitan atmosphere.

However, the program is still in the planning stage, though it should have been initiated at the start of the semester. The children were to have met with their tutors in designated areas in the HUB, and transportation was supposed to have been available.

The HUB presented a major problem. It seems that space was not available, and the program could not begin until an alternate meeting place was found. The reasons why the space was not available are somewhat vague, although the answer appears to be a two-fold one.

The request for the HUB was probably not made early enough to plan adequately for such an operation. This in turn was delayed by the fact that a sufficient list of volunteers for the program was not available for enough in advance. It was a matter of planning or student apathy? Noting the amount of time it took to enlist the number of volunteers, one might be inclined to think that student apathy was a major deterrent to the operation of the program.

The contact in the sociology department who would have handled the problem of transportation is no longer available. When the program does go into effect, the children will have to get to the campus by their own means.

At the present time, the tutoring program is scheduled to begin next semester if a sufficient number of interested students volunteer to participate, and space is made available through the use of the fraternity houses. We hope that these obstacles can be overcome, and the tutoring program can at least be put into operation.

EIC: ITSA’s Fraternity Image May Hinder Its Effectiveness

With ITSA Board of Control elections less than two weeks away, one can easily spot prospective candidates by their cheerful disposition and friendly manner while walking from class to class, as they secretly tally votes in their minds.

Perhaps the above is a gross and unfair representation of the candidates. But I can already envision the campaign speeches of campus apathy and poor communication between students and Board of Control members. The problem, of course, is what can be done about the deficiencies of ITSA.

I feel that the major problem with which ITSA must soon come to grips is that ITSA is fraternity oriented. Then this problem is one of great importance can be evidenced by the fact that an Inter-Dormitory Council and an Arch-ID Students Association have been formed recently.

Students living in dormitories and the inhabitants of Crown Hall both have an elected representative on the ITSA Board of Control, but apparently these two large groups of students feel that ITSA cannot offer them anything.

Whether or not they are right in their appraisal in immaterial. What is relevant is that ITSA must recognize that large groups of students do not feel represented by ITSA, and that it ITSA is to continue to be a representative of the core student body, it must attempt to bring these groups into ITSA.

The consequences of having separate organizations who feel that they can test solve their own problems without ITSA’s help are obvious special interest groups will act more and more independently of ITSA until ITSA will no longer be a students association.

I contend that ITSA is having this problem because students feel that ITSA is too fraternity dominated. In order to solve the problem, ITSA must go out of its way to recruit dormitory and fraternity members to work on its committees.

Union Board has a similar problem in that it is recognized as a dormitory organization, but Union members with its effective personnel committee has already taken steps to assimilate fraternity members into its structure.

I hope that the new Board of Control members will work diligently to make ITSA a stronger students association.
Letters to the Editor

EIC Hits Jackpot as Readers Take Over

Dear EIC:

Concerning the Participating Artists Committee-sponsored art show currently at the HUB, I feel that these "rejection" letters from the Chicago Art Institute should not be displayed publicly in our Union Building, either. I think the statement made in an article of Tech News last week—that the Union Building is not the place to show such an exhibition—was quite correct.

If the HUB is to be used as an exhibition hall, then let us have a review board of students and faculty members to judge beforehand what is to be exhibited, either in whole or part, in Herman Hall. This "protest show" has been an annual exhibit since 1963. I hope its 1966 display will be the last of its kind at HUB!

Edward Schrader

Dear EIC:

Your editorial on Vietnam makes it quite clear that there is little point in fighting the war as we see it today. However, it seems that the alternative you suggest—negotiation to avoid war—is not acceptable to a war-weary people. In this atmosphere of uncertainty and fear, the only course of action is a warning to our government to take a firm stand against further aggression by the Viet Cong. We must be prepared to meet any challenge that comes our way.

We have much more nuclear strength than China and Russia together. It is a time when we can demand our rights and stop the war.

John Joseph Herr

Dear EIC:

Your editorial of Nov. 16 in which you advocate an immediate withdrawal from Vietnam is admirable, although somewhat unrealistic. It is also a very dangerous position—you, like Socrates, may soon be forced to drink the hemlock.

You should realize that as long as the US Government believes it has the right to intervene anywhere at any time, as long as it believes that a "Communist takeover" or "conquest" is about to take place, it is foolish to think of U.S. withdrawal from Vietnam as an historical possibility.

If the State Department can pour thousands of marines into Suez for a "protest" against its revolution when it finds fiftyodd communists among the revolutionaries, it is not likely that we will withdraw from Vietnam. We must face the idea that we can fight ideas with guns. Wars like the one in Vietnam cannot end only if progressive Americans unite in order to:

1. Give a sort of psychological shock to the Administration—make them in such a hurry to act that they are forced to see their actions in the world as a significant event, not just another step in the long struggle to world peace. Americans see this.
2. Officially support massive, popular, nonviolent social change, such as land reform and nationalization of foreign monopolies.
3. Distance our military alliances further and stop our economic exploitation of the poorer nations.

Carl Siren

Dear EIC:

After the first paragraph of your Viet Nam editorial, you said I was a "naive". I agree that Americans are disillusioned with the administration policies in Viet Nam. But you must consider that the "conservative hawks" in Congress would not support your idea of withdrawal or victory. It is because we are settling for less than victory when there is no substitute for it.

You say we should withdraw because China's importance is demonstrated by her failure to annihilate Quemoy and Matsu. China, 700 million people armed with nuclear weapons and missiles, is by no means insignificant. She could and would engender the Philippines and beyond if US power were not present. Yet you advocate the only thing which keeps China on the mainland is the US. It is a common logic, indeed. I have been historically incorrect and have committed the mistakes with Communism you suggest. The Chinese have destroyed our way of life, forcing us to think of our own future. The South Vietnamese would be forced to think of their own future.

Yet you have no comparison about giving that system 17 mil lions more slaves. The Communists already have their vengeance lists made out. The South Vietnamese would be like the South Vietnamese.

True, we have nothing to gain by staying in Viet Nam, but we have everything in the world to lose.

Guillermo von Beymann

PROTEST
Why does shaving have to take so long?

SLOW SHAVING UNFAIR!

Join the new Norelco march on whiskers! Finish shaving nearly 40% faster than ever before.

Norelco the fast, close, comfortable electric shave

Free yourself from shaving's tyranny! The new Norelco Tripletweeder Speedshaver 201 is more features for a penny, but remember to use our new Norelco Shaver's Headset. Easy, fast shaving even before the advent of the Norelco Shaver Headset.

Now OPEN!

PUBLIC SESSIONS DAILY—Closed Monday

PRIVATE AND CLASS LESSONS AVAILABLE

Admission $1.00 Children 50c
Sat. & Sun. 1-25 and 7-10
32nd Street and Ellis Ave.
3 Blocks East of South Parkway
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GO FOR BAROQUE

The Chicago Symphony Orchestra presents contemporary music, as well as baroque, in its Chamber Music Series. Special discounts are now being offered to students and faculty: only $2.00 per single admission (regularly $4.50)/series tickets for six remaining concerts, only $11.00.

On December 6, the Chicago Symphony String Quartet and guest artist, Gyorgy Sebok, piano, will play:

Szymanowski: Quartet for Strings
Schubert: Wanderer Fantasie for Piano
Franck: Quintet for Piano and Strings

There is more to life than trivia, football, and studying—make December 6 the day you discover chamber music.

Single admission and series tickets are available at Orchestra Hall Box Office, 216 So. Michigan, or phone 427-0362 for information.

CHICAGO SYMPHONY ORCHESTRA
JEAN MARTINON, MUSIC DIRECTOR

WIIT

The services of WIIT, the student-owned and operated radio station at IIT, have been temporarily interrupted due to a re-wiring of the station's control facilities.

During the repairs, no programs will be broadcast.

The nature of the repairs is to try to do away with some of the transmission difficulties which have periodically caused bad reception and sometimes intermittent transmission of the station's signal.

Part of the repairs will be to wires which occasionally break in the main control panel. It is believed by the station engineers that the complete rewiring of the panel will prevent these breaks. In addition to the rewiring, a new transmitter with a more powerful output is being installed.

The repairs are being conducted by various members of the station's engineering staff under the direction of WIIT's chief engineer, Gun Warner.

59th Street Infinity by Carl Stires

I am waiting to catch the number-infinity bus from Hyde Park—
The one that rolls past Fifty-ninth Street to the vast other side of the Klein bottle called earth...

The one that passes under the smothering tree and sheltering arches To a Universe of being—free from the roles and rituals
called freedom by those who have never gone past Fifty-ninth Street
To a Universe of innocence free from the rain and hopeful myths of ends disguised as means free from the meaninglessness of scheduled spontaneity free from the cruel game of hate masquerading as love.

Watch for me on that number-infinity bus from Hyde Park And wave—because I'm never coming back.

ONE DAY ONLY!
Sunday, January 7 at 7:30 & 10:30
IN PERSON
DR. TIMOTHY LEARY

In a Psychedelic Celebration entitled
THE DEATH OF THE MIND
Re-enactment of the world's great religious myths using psychedelic methods: story, meditation, symbol-overload, meditations, molecule and organs, appropriate costume dance sound-track and lecture-vernacular.

PSYCHEDELIC ART BY JACKIE CASSEN & RUDI SERN

SPONSORED BY THE CHICAGO PSYCHEDELIC SOCIETY

PRICES: $4.50, $4.00, $3.50, $3.00

Tickets now available at McCormick Place Box Office.

ARIE CROWN THEATRE BOX OFFICE
McCORMICK PLACE, CHICAGO, ILL. 60616

Student Exchange In Nancy, France

Opportunities for E and S students to study in Nancy, France, are available through IIT's University of Nancy Exchange Program. This program, which is in its second year, permits a student to spend his junior year studying at the Institute of Engineering Sciences, an affiliate of the University of Nancy.

The exchange program covers all expenses of the students over and above what they would be paying if they were at IIT. Participating students are given special language courses at IIT in the spring semester of their sophomore year. They also receive an intensive language course during the summer in France.

The first group of three IIT students, who spent last year in France, are now back in attendance here. Those who participated are Clark Tomita, Roy Peterson, and William Doerr.

French students, who are presently attending IIT, are Joe Strohl and Bernard Morel. Mr. Strohl is pursuing graduate studies.

"SPECIAL STUDY"
PHILLIPS JEWELERS

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Serving College Students A

50% OFF ON ENGAGEMENT RINGS
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December 2, 1966
Student Exchange Program
In Nancy, France Available

Opportunities for E and PS students to study in Nancy, France, are available through the ITU-University of Nancy Exchange Program. This program, which is in its second year, permits a student to spend his junior year studying at the Institute of Engineering Sciences, an affiliate of the University of Nancy.

The exchange program covers all expenses of the students over and above what they would be paying if they were at ITT. Participating students are given a special language course at ITT in the spring semester of their sophomore year. They also receive an intensive language course during the summer in France.

The first group of three ITT students, who spent last year in France, are now back in residence here. Those who participated are: Clark Tomita, Roger Peterson, and William Doerr.

French students, who are presently attending ITT, are Jeanette Strohl and Bernard Miel. Miss Strohl is pursuing graduate studies in mechanical and aerospace engineering, while Miel is in electrical engineering.

Sophomores who are interested in the program should contact Dr. Andrew Fejer, chairman of the mechanical and aerospace engineering department.

- ITSA Election

(Continued from page 1)

The ITSA Election

(Continued from page 1)
day may submit 500 word campaign speeches, while candidates for the other offices on the ITSA Board of Control and Assistant Treasurer of ITSA and Assistant Social Chairman of ITSA may submit 250 word campaign speeches to Paul Gordon, at the AEPi house.

Also enclosed with the campaign speeches must be a non-returnable wallet-size photograph with the name of the candidate, his major and semester, and his grade-point average.

Anyone wishing his picture to appear in Technology News and who does not have a wallet photo can have his picture taken by Technology News photographers on Tuesday, December 6, between 2 and 4:30 p.m. at the Technology News office in the HUB.

Feldman, commenting on student participation, stated, "The best way in which you can represent your school and have your say in campus policies is by holding an office to represent the students. I hope that a good representation of the student body campaigns for a campus office."

If you're under 25
you need this dial
to save your neck.

No matter how tough your beard is, the skin of your neck is still tender because shaving hasn't chewed it up or turned it crusty yet. Shaving can do that because ordinary shaving devices make no adjustment for that tender skin.

The REMINGTON® 200 Selecto shaver has a dial with a special position just for your neck.

Position number one is designed to protect that very tender skin—the skin most shaving devices cut, scratch, redden, and irritate. Yet it gives you the closest shave you’ve ever had—while it’s protecting your neck.

Another part of the Remington protection is that it has exclusive guard combs that lift up the hairs (even the thin, curly hairs of your neck) and slick them down.

By lifting the whiskers, the guard combs also prevent ingrown hairs that can cause skin blemishes.

After you’ve shaved your neck, positions 2, 3 and 4 will protect the rest of your face.

When you turn the dial, the cutters raise up and adjust to your particular beard. Because the new REMINGTON® 200 Selecto shaver has a bigger shaving surface, you don’t have to rub and scratch your skin raw red, to get a closer shave. That goes for touching up your lip or shaving your whole face for the first time in three days.

There's a special position just for sideburns. Number 5.

Turn the dial and up comes the biggest pop-up trimmer ever. Does a straight, even, neat job on sideburns.

And it’s good for back-of-the-neck jobs, too, between trips to the barber. The Remington electric shaver cleans up.

Number 6 on dial. Just click the side panels flip open and, with a push from you, it’s clean. That’s all there is to it.

The price. The good news is that it actually costs less than most ordinary shavers that don’t care if a man under 25 gets it in the neck.

REMINGTON 200
Selecto Shaver
special test coordination
GRADUATE TO LOCKHEED

Engineering seniors: visit the Lockheed suite at the Jack Tar Hotel in San Francisco. December 27-30 or call Lockheed collect (408) 743-2901. Spending this Christmas holiday in the San Francisco area?... then look in on Lockheed at the Jack Tar Hotel. Lockheed’s professional employment team will be conducting interviews that can set you on the path to a fascinating, high-paying job at Lockheed. They’ll be happy to tell you about new product development, product diversification, company-conducted research, company-paid tuition programs, proximity to universities and research centers... as well as Agropolaris, Poseidon, Deep Submersibles and much, much more. An equal opportunity employer.

LOCKHEED MISSILES & SPACE COMPANY

December 3, 1966

Announcements

Read to Speak
David Reed, 1966 Republican candidate for Congressman for Illinois’ First District, will speak at the United Christian Fellowship meeting on Thursday, Dec. 8 at 5:30 pm in the HUB.

ACM
An organizational meeting for the Association for Computing Machinery will be held on Dec. 8 at 12:15 pm in the Comp Center conference room.

Censorship Discussion
A discussion on the nature of censorship of art, focusing on the recent removal of the work by Peter Holbein from the HUB, will be held Wednesday, Dec. 7 at 3:15 pm in the ID Lounge located in the basement of Crown Hall.

Dr. Joshua King and Dr. Sylvan Weir will lead the discussion on the implications of censorship of art.

Creative Writing
There will be a meeting of the Creative Writing Workshop on Thursday, Dec. 8 at 4 pm in the Room 307 Chapin Hall.

BON Interviews
BON will hold interviews for voting Board of Control members on Sunday, Dec. 4 at 8:15 pm in the HUB.

UB Movies
On Friday, Dec. 2, there will be a double feature, “War of the Worlds,” and “Robinson Crusoe on Mars” at 8 pm. On Sunday, Dec. 4, “Dr. Strangelove” will be shown at 8 pm. And on Wednesday, Dec. 7, at 8 pm, “Brave of Blood” will be presented. All movies will be in the HUB.

IFC Lectures
The Interfraternity Council is sponsoring a lecture given by members of the Millionaires Club on Wednesday, Dec. 7. The lecture will be held in the HUB Ballroom at 8 pm, and is open to the public.

Techhawk’s Birthday
A mixer sponsored by the Inter-Dorm Council, will be held tonight to observe Techhawk’s birthday. The dress for the mixer is casual, and admission is 25 cents for men and 25 cents for women. The dance is from 9:30 pm.

IEEE
IEEE will hold an open meeting on Tuesday, Dec. 6, from 12:15 to 1:30 in the HUB.

Short course in lifelong economics for college seniors!

If you are going to graduate, you will be interested in learning about New York Life’s program of life insurance readiness tailored for college students.

Fresh Lovasness

Campus Representative
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“Let’s unplug the computer, boys! Start thinking!”

A lot of people believe that someday computers will do all their thinking for them. Well, a funny thing is going to happen on the way to the future: You’re going to have to think harder and longer than ever.

Computers can’t dream up things like Pictophone service, Telstar satellite, and so on. All the other advances in communications we have made. Of course, we depended on computers to solve some of the problems connected with their development. But computers need absolutely clear and thorough instructions, which means a new and tougher discipline on the human intelligence. And it will take more than a computer to create a pocket phone the size of a matchbook, let’s say... or find a practical way to lock a door or turn off an oven by remote telephone control, or to make possible some of the other things we’ll have someday:

It takes individuals... perhaps you could be one... launching new ideas, proposing innovations, dreaming dreams.

And someday, we’re going to have to find a way to dial locations in space. Makes you think.

CHU. B.S. and C. B. A. in business administration. Member of the翩翩a, number one firm.


First class students, come to B.S. and C. B. A. in business administration.

If you see any business administration students, give them a good time.

Dr. J. F. M. in business administration.


First class students, come to B.S. C. B. and C. B. A. in business administration.

If you see any business administration students, give them a good time.

Dr. J. F. M. in business administration.
Computation Center Initiates Operation Transceive

Operation Transceive, the first program of its kind in the Chicago area, has been started at IIT. This program involves the use of remote teletypewriters, located in fifty Chicago area high schools, to send and receive computer programs and output. These remote units are tied to IIT's IBM 360-40-2702 computer via regular telephone lines.

The largest users of the new Operation Transceive environment permit the schools which have been participating in the Saturation program to program the computer and run the programs right from the classroom. Students use the teletypewriter units as a card punch unit, except with tapes, and then set the unit to read in the program when the computer here at IIT is ready to accept the program.

Advantages of the teletypewriter unit versus the card punch are numerous. The unit produces not only the program tape, but the hard typed copy simultaneously. The unit programs the computer directly and is installable wherever 110 volt current and telephone lines are available.

The system used here at IIT in Operation Transceive is not the first MIT has been using approximately 160 such units for the last two years.

This new idea in computer use is a part of the new computer system which is presently being installed in the Computation Center. The second generation computer, the IBM 7040-1301, was replaced completely by the new third generation IBM 360-40-2702 on Dec. 1.

The new computer, as Dr. Lykens, director of the Computation Center, pointed out, is a medium-size unit which has greater flexibility than the older 7040 and is more adept for use at IIT. Dr. Lykens also stated that although the 360 does not have complete capabilities that may be necessary for some research projects, it is a part of a series of upward capability machines. Therefore the unit here may be used to debug and to establish programs for the larger machines, such as the one at Argonne National Laboratories.

Other advantages of the 360 include faster throughput for programs as well as remote terminal programming.

PL-I, a new programming language, is also another feature of the new computer. This language is universal among the entire system 360, and integrates the business translator Cobol and the scientific language Fortran.

The use of the new PL-I has also resulted in changes in ITRAN, developed for use at IIT by William Worley. These changes have resulted in the development of ITRAN-360, which will no longer be strictly a local computer language. The tests for the new ITRAN-360 will be printed soon by a national publisher for nation-wide use.

Operation Transceive is headed by Mr. Gottschalk and the high school program by Mr. Bauer. Dr. Hochsprung directs the time-sharing system and Mr. Feibel is head of the computer operation.

Mr. John Cwiw, operations supervisor of the Computation Center, makes an inquiry into the IBM 360.
Senior Archs Defeat IF Champs 7-6, Take All-School Football Championship

The competition for the "all school" touch football title, held for the first time this year, pitted the 1st champs, the Senior Archs, against the IF championship team, Delta Tau Delta. The tough defensive battle on the Senior Archs' omen early led to win the game 7-6.

Triangle Wins IF Swim

Triangle rolled over all comers to take the IF swimming crown, last Tuesday night at DuSharm Pool.

With nine minutes gone in the second half, the Delta came up with the first score of the game, a forty yard touchdown run by Delta Quarterback Nick Biederman, The PAT pass failed.

The Senior Archs retaliated shortly after the Delta score when the Architect field general Dave Wondland scored on a two yard run from scrimmage. The point after try, a pass from Wondland to center Peyton Abbott, was good, ending the game's scoring, and giving the Crown Nine men their winning margin.

The first half was strictly a defensive game, highlighted by a Senior Arch drive to the Delta 20 yard line. An intercepted Wondland pass by Delta defensive back Jay Burns, just outside the Delta endzone, ended the Archs' threat.

This year's "all school" championship game was the first such contest at Tech. Initiated by IF, an award has been given, which will become a traveling trophy.

Tables Turn as Delts Edge Sigs in Football

In an unprecedented replay of an IF championship football game, Delta Tau Delta edged Alpha Sigma Phi 7-6.

The game reversed the score of the original championship tilt in which the Sigs beat the Delts by an identical 7-6 score.

The first game, however, was replayed due to the fact that in the first game only 15 minutes instead of the required 20 minutes were played.

The first half of the replay game saw a scoreless defense battle, with neither offense threatening.

Midway through the second half a pass from Delta quarterback Nick Biederman to Stu Matthews put the Delts on the Sig 20 yard line.

This set up the first score of the game, a Delta touchdown pass from Biederman to his halfback Tom Koncaid. The PAT pass from Biederman to Bob Stone was successful, giving the Delts a 7-0 lead.

Shortly after the Delts scored, the defending champion Sigs began a drive to the Delta goal which ended with a 12 yard TD pass from Sig Bill Brudham to center Jack Bernard.

The all important extra point pass by the Sigs was unsuccessful, as a Biederman pass fell short of its intended receiver.

IF Swimmers Await Next Event

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