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M.I.T. Of Mideast"

TECHNION

By TED SEMEGHAN

About five miles outside of Haifa, overlooking the Zebulun Bay, are the buildings of the Technion city. The "M.I.T. of the Middle East" has been locating itself in this new location on Mt. Carmel after having originally been built in the city of Haifa, forty years ago. The role of the Technion is to train engineers and physicists as well as many other scientific personnel. It is considered the cornerstone of Israel's development and her sole source of technologically trained manpower. It is noteworthy that Israel does not have a shortage of qualified young men and women eager to study science and technology. The only failing is the lack of adequate facilities and money.

In 1912, the idea of the Technion was advanced by a handful of German Jews as an institution of higher learning to train advanced technically skilled personnel and for applied industrial research. Construction was started after W.W. I when Palestine was ruled by the Ottoman Empire. The first academic school year was initiated in 1924. During Hitler's rise to power, brilliant engineers and scientists took refuge in Palestine and the Technion was en-

hanced with a very worthy faculty.

Enrollment Noted

Today, Technion is the center of Israel's technical future. The University has an enrollment of three thousand students of which eight per cent are women. The courses of study include Civil Engineering, Architecture, Chemistry, Agricultural Engineering, Science, Aeronautical Engineering, Food Technology, Electrical Engineering, Metallurgy and Business and Management Engineering. In the recent graduating class, 577 students received equivalents of a Bachelor's degree. Thirty-two of these graduates were women. Almost half of the total amount of graduate degrees ever given at the Technion were received in this graduating class.

In the last issue of TECH NEWS, the influence of Israel among the nations of Africa and Asia was noted due to the many scholarships that Israel offers students from other nations. At least 500 African and Asian students were studying in Israel this year (three times the amount of African and Asian students in 1959) and the following year this figure is supposed to rise to almost one thou-

(Continued on Page 3)

Vector Review

VECTOR came out last week after the long holiday vacation. The editors worked hard to give a readable issue that is suitable for the understanding of most of the students in the entire college as well as for Tech students.

For the lower termers, Al Freedgood's and Mike Levy's article on how to get a summer job was graciously welcomed by the students who are presently looking for a summer job. The material in the article is usually learned by the seniors who after obtaining this information have no need for a summer job. The article's suggestion on working in Europe was well thought out and should be read by every student who is looking for a summer job in a foreign country. The students should check into the IASTE program (see TECH NEWS Dec. 21).

Steve Shepard's article on the "Eyes and Ears of a Missile" catered to the advanced students who knew something of the problems that arise with the production of very sensitive devices and to those student on a lower level who might be interested and wish to learn about guidance systems.

For more advanced students, Ronald Moskowitz's article on "Secondary Applications of Synchro Devices" gave a very informative paper to the readers of VECTOR. Besides having figure one and two reversed, the article

did not present any difficulty to the student that could understand it. It is a very worthwhile addition to the theory of synchro devices that is learned in the courses offered to engineers at CCNY. There was a mistake in the definition of the resolver: It should be $2\frac{1}{2} r^2 = X^2 + Y^2$ and not as written in the article.

The "Wheels" column was welcomed by the reviewers. VECTOR a few terms ago had a similar article but it was left out of the last issue. It is hoped that VECTOR continues this excellent article about the honor society presidents.

The "Engineering Highlights" brought to the reviewer information about new products in industry. The article about the "One Hp. per Lb. Automobile Engine" brought great interest to the students and if adopted could revolutionize the entire automotive industry. The article is as complete as could be without completely snowing the readers of VECTOR.

The article about high temperature transistors was welcomed by the Tech school for it is the first time transistors have been built that can be used at temperature of 670 degrees Fahrenheit. Unipolar transistors are new devices but much future is seen for them.

The "Ion Gage to Measure Low

(Continued on Page 4)

Student Seeks Sweeping Reform

TIIC Elections

President —
IRA REISS '61
Vice President —
LOU SUNDERLAND '61
E-Day Ball Chairman
LINDA GROSS '64

IBM Shows Giant Brains

By DAVE TUTELMAN

On its trip to the IBM plant during the vacation, the AIEE-IRE saw an impressive array of manufacturing techniques, both automatic and manual, and an awesome battery of large digital computers. The Poughkeepsie plant is the company's center of production for these "giant brains" that are revolutionizing modern business and science.

Education

The education building was, surprisingly, not a public relations center, but rather IBM's headquarters for training technicians and field engineers to maintain and service the computers. The "customer engineers" that acted as guides on the inspection of the education building assured us that IBM's operations in maintaining their machines constituted in itself an enormous personnel network. After seeing men working on the innards of an open and partially gutted installation, it became clear that repairing a computer is almost as burdensome a task as building one. Incidentally, the guides explained the general



Computer Console

procedure for troubleshooting one of these machines.

Now suppose a customer calls the branch office nearest him and says his computer is giving wrong answers. (By the way, when a computer is giving wrong results, the user knows it because most of the machines have built-in checks on operation which notify the user if anything goes wrong.) A technician is dispatched to the scene of the trouble with all due haste (computer time costs hundreds of dollars an hour). Since the machines are so complicated, each technician is taught about only one type, so every office must staff as many men as types of IBM machines in its district.

(Continued on Page 2)

Plans for a powerful coordinating student council within the school of technology have been formulated this term. Called the Council of Presidents this group will attempt to

TIIC President Heads E-Day

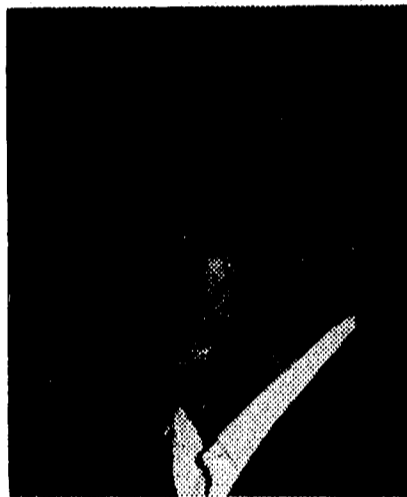
Ira Reiss, E-Day chairman for 1961, last Thursday announced that E-Day will be held on April 15, 1961. Mr. Reiss said that the department chairman and faculty advisors from the various departments have already been chosen and have met together at least once. Their first meeting was spent discussing organizational topics which ran the gamut from publicity to obtaining rooms for the exhibits.

Major Guest of the ROTC unit stationed at the College stated that his department is trying to get an exhibit from the Army which can be set up in the Goethals gymnasium along with the civil engineering department's surveying instruments. Professor Pistrang of the Civil Engineering department said that room could be made in the gym for the army exhibit. Topics discussed among the student department chairman were about the use of the college's new digital computer and which department would have control over it. The idea of returning to the old process of handing out individual booklet programs to the visitors was discussed as opposed to the use of TECH NEWS in presenting the program. TECH NEWS published the E-Day program in its issue last year.

achieve unity in action for the engineering school by bringing together at regular meetings the heads of the major engineering organizations on campus. Specifically such projects as obtaining space on North Campus for TECH NEWS and VECTOR, sponsoring an engineers' tea, maintaining a slide rule league and the like would fall in the Council's domain.

TIIC Lacks

Ordinarily such projects would be handled by TIIC; but, if past performance is any indication, TIIC is unable to cope with any situation requiring quick, decisive action. This is not necessarily a reflection on the officers of TIIC but rather



Ron Moskowitz

a criticism of its basic structure. The Technology Intersociety Interfraternity Council (TIIC) consists of twenty-two member organizations; most of which are small splinter groups and certainly should not be given equal representation with major engineering organizations like AIEE, ASME, and IRE (each having well over 200 members). Furthermore attendance at TIIC meetings is consistently poor, averaging about 50%. Any major decision by TIIC must be presented to the usually uninformed representatives who then, at the next week's meeting of the group bring it up. This delay sometimes will kill a critical issue.

Ronald Moskowitz after discussing the idea with a number of leaders of the Tech School said, "I have proposed this idea from a survey of the student body and have found a definite enthusiasm for my proposal. The new President's Council will enable the Engineering School to speak from a position of strength not presently found. It will fill the inherent weaknesses in TIIC's structure."

Some of the students already interested and active in this new proposal include Ronald Moskowitz '61, IRE president; Warren Wolff '61, TIIC president; Ira Reiss '61 Tech School Council Representative; Ted Semeghan '62, Editor of TECH NEWS; Steve Shepard '61, Vector Editor.

(Continued on Page 2)

Thirty See Generator

On December 28 thirty tech students met in front of the Con Ed Building at Irving Place. The students were invited by Con Ed to visit the Astoria Power Generating Station and to tour the facilities of the plant.

Arriving at the plant by bus the students passed through the poison gas storage yards and stopped at the administration building. The new manager of the plant told the students about what they were going to see and the students then entered the plant.

Passing the furnace fans the students were told that the fans were used to blow the pulverized coal into the furnaces. The station can burn coal, oil or natural gas, whichever is more economically inexpensive.

The students were then taken into the plant number three which is the most modern plant at Astoria. Plant four and five are presently being built and will be finished by 1965.

The steam for the electric power delivered by the plant is generated, superheated and then

(Continued on Page 4)



TECH NEWS

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NEEDED:

North Campus Office

We strongly believe that the lack of enthusiasm of Technology students in campus politics, student publications, setting up a basketball league or other technology functions is due to the lack of a room on North Campus to direct such activities.

Since the use of South Campus began early in the fifties, the campus at large has spread farther out. The campus now extends from 131 Street to 140 Street, and in the beginning of 1962, it will be stretched to 141 Street. Nevertheless, the technology journals and TIIC meet in Finley Hall on the South Campus. No place is set up (as the S.G. Office is in Finley) for any organization such as TIIC to meet except for the scheduled times of their meetings in Finley Center. The journals, including TECH NEWS, do not have the ability to effectively represent the School of Technology on the third floor of Finley, when the sphere of activities they cover is mainly the North Campus of the College. How often is an engineer going to go down to Finley Center to give us some information on a coming event, taking note of the walk back and forth.

If there was an office of technology student affairs including TIIC, TECH NEWS and VECTOR on North Campus, all these, and possibly more technology activities would be rejuvenated.

We hope that the new President's Council can obtain permanent quarters for a technology student government on North Campus.

It's About Time

The Presidents Council could be a very worthwhile solution to the present problems facing TIIC. Such a proposal, we feel, is the first step to be taken in making an effective Technology Student Government.

TIIC, it appears, is not accomplishing its proposed aims because of certain inadequacies found in its structure. The first of these faults is its use of representatives from Technology student organizations as its membership instead of asking for Presidents of the technology groups. These representatives usually have neither the willingness nor the time to effectively accomplish the diverse aims of TIIC. Many times this year we have received the news that either TIIC did not meet because many of the representatives were absent or late or that the plans of TIIC had failed due to poor planning. The Faculty and Student Tea was one of the most glaring failures this term.

Will this new group of student leaders fail in the same way that TIIC has? We believe the organizers of this proposed group have alleviated the possibilities of failure that are found in the TIIC structure. By using past and present student leaders and presidents of the societies, the new organization will be working with active students who should know the best ways to go about any workable line of action. They are already active in their societies and know what is needed to make their organizations, as well as the School of Technology, benefit.

The Presidents Council, if you have read between the lines, is not going to replace TIIC. We agree with the planners that this organization is not to be the representative

(Continued on Page 3)

Pres. Council...

(Continued from Page 1)

or as well as a few other present student leaders.

The first meeting of the council is tentatively set for Tuesday, January 22. Some of the immediate benefits derivable from the successful establishment of the council will be an increased support of Vector and TECH NEWS (both in a staff and circulating sense; it is hoped that this might lead to TECH NEWS being published on a weekly basis). A student paper competition where the prize might be a scholarship for a year at the college (all fees paid plus books) and a general program to enhance and increase the prestige of the School of Technology in industry.

Efficiency

Furthermore, the activities of each organization will be well known to the others leading to a more efficient programming within each group.

At present the plans are for the council to function independently of any other group on campus. However, once established it might be possible to merge with TIIC in a tech government. If the need should ever exist this group (alone or as merged with TIIC) could provide a student government for the school of technology. This might be necessary as witnessed by the passage of the recent referendum which removes the school entitlement to council, (it is believed that the referendum was passed only because TECH NEWS could not come out in time to express the view of the tech school.

Leaders Used

On the other hand the Council of Presidents will consist of people from the major engineering groups on campus (at the present time the groups being considered are AIEE, ASME, ASCE, AICHE, SAME, IRE, VECTOR and TECH NEWS). These people by virtue of their position in their respective organizations will be well informed and furthermore be able to make decisions when and where they are necessary.

IBM Visit...

(Continued from Page 1)

When the repairman arrives, he feeds into the computer a series of problems which he has on tapes and to which he knows the answers. These problems, called "diagnostics," are set up to utilize every circuit in the machine.

Other Products Seen

In addition to computers, the Poughkeepsie plant manufactures such accessories as automatic read-out printers and tape drive mechanism. They also make their own ferrite cores for memories and are starting pilot production of mesa transistors. One complete wing of the plant is devoted to pre-delivery check-out of the big brains. These systems, which might be crowded into a large classroom, are lined up by the dozens and every conceivable test is run on each by trained engineers. According to our guide, each machine is under test for several weeks before it is delivered. Quite a lot of time, perhaps, but there is quite a lot of money in it. Computers are so expensive that they are made on order only, and every one on the testing floor is marked with a destination. (The actual sale of one runs into the millions of dollars, but most customers "buy time.")

Open Registration For LGP Courses

By MIKE BUCZACZER

It is intended that the Royal McBee LGP-30 Electronic Computer be utilized for undergraduate instruction. In order to do so, a third series of lectures is being offered. This series is a repetition of the lectures that have been given in October and November of 1960 and is open for attendance by members of the faculty and by junior and senior students. The lecture will be conducted by Mr. Demos Eitzer of the EE dept. It will take place in S306, on Monday and Tuesday, January 23 and 24, from 9:00 A.M. to noon. Mr. Eitzer will attempt to provide a familiarity with a language suitable for programming problems for the computer. Students will have the opportunity of access to the machine.

There will be enough seats for 150 students. Those who wish to attend are requested to submit a self-addressed post card to Mr. Eitzer. The card is to be put in a special provided box in H104 (Eitzer's office). The card will be returned with the indication whether you are accepted. The cards may be brought later than Monday, January 23. FIRST COME FIRST SERVED. Another six hour series, similar to the January 23 and 24, is scheduled for some time during the spring session. Those who are not accepted for the January course will have cake that is served rights for the computer layer is course. The time and place of the spring series will be announced later.

Good Luck On Final

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By LARRY

THE LAST WOR

There are many who haven't said this should have; I think of space I could like to give credit is due.

There are many who owe apologies. I said he was so cared about when Judy? ... congratulated him for the convictions. ...

...should have about the Board they have voice enough trouble. I will say should make a legislator know about this \$300 the time for write to their should have w Transit Autho have to take ways. (That's for anybody.)

NOTES ABOUT

The Society of Engineers start a book drive collect as many books as possible them to the from Pakistan to start a drive nation from the R.O.T.C.

This money will be a care package for orphan overseas this will be year. The society adopt an orphan touch with him make noble m

The ROTC secret weapon auxiliary corp Space probe listing of all fraternities with numerous cha should like to and IFC.

Congratulations for the test of the American Electrical Engineering Institute of Radio organization ship by 50% t by diligence its officers trainees. The program of t designed by knew that th available each and that some ice should h ing of the o other offices ncers worked signing this when they g be a suffice qualified stu the running student orga

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TECH LIFE

By LARRY KOWITT

THE LAST WORD...

There are many things that I haven't said this past term that I should have; but, due to the self-added lack of space I couldn't expound on them all. At the present time I would like to give credit where credit is due.

I owe apologies to Warren Wolf's hardworking staff (TIIC) when I said he was the only one who cared about TIIC. Am I forgetting Judy? ... I should have congratulated the staff of Micro-series for the courage of their convictions. ... I should have cheered for the cafeteria management's firm stand against the students. Their courage in selling having cake that is so hard that the spider layer is usually scraped and placed with a loud grating sound is beyond belief. ... Maybe I should have said something about the Board of Regents, but they have voted themselves enough trouble without my help. I will say now that you should make sure your state legislator knows how you feel about this \$300 tuition fee. "Now is the time for all good men to write to their party! ... I should have written about the Transit Authority, but they have to take care of the subways. (That's enough problems for anybody.)

NOTES ABOUT TOMORROW...

The Society of American Military Engineers is planning to start a book drive. They plan to collect as many used technical books as possible and present them to the U.N. ambassador from Pakistan. They also plan to start a drive to collect a donation from every member of the R.O.T.C. (and the school). This money will be used to send a care package to some needy orphan overseas. If all goes well, this will be repeated once a year. The society would sort of adopt an orphan and keep in touch with him. (Noble deeds make noble men.)

The ROTC is developing a secret weapon. A woman's auxiliary corp. (Hmmm!)

Space prohibits a complete listing of all the Greek letter fraternities who have sponsored numerous charity drives, but I would like to congratulate them and IFC.

Congratulations are also in order for the tech school's chapter of the American Institute of Electrical Engineers and the Institute of Radio Engineers. This organization raised its membership by 50% to over 280 students by diligence and hard work by its officers and its executive trainees. The executive training program of the AIEE-IRE was designed by the officers who knew that the amount of offices available each term is limited and that someone taking an office should have an understanding of the office and of all the other offices and officers. The officers worked last summer designing this program so that when they graduate there will be a sufficient number of well qualified students to take over the running of this very active student organization.

Technion...

(Continued from Page 1)

The numerous African and Asian students studying at the Technion help give it the title "MIT of the Middle East." The training it affords these scholarship students will help determine the future technical advances to be seen in the Middle East in the future.

One of the major advances of the twentieth century, which may be as important as splitting the atom, is the harnessing of solar energy. Researchers at the Technion have developed a working refrigerator powered only by the sun's rays. Adaption of this experimental model to commercial purposes is under way. This might be one of the most important discoveries of the world for the vast tropical areas of the globe.

Some other pressing research problems now being studied at the Technion include the lowering of the industrial accident rate, the rising of bread with the use of yeast and efficient uses of the limited water found in

Israel. The problem of why yeast mixed only with wheat will rise while it does not produce the same effect on local grains as barley and corn could have a very important effect on the future of Israel's food supply. Recently, the well publicized nuclear reactor of Israel is another Technion development that makes the school a highly accredited technical University throughout the world.

River Model Built

A notable achievement in the study of flooding and water supply was accomplished by building a 225 foot model of the Yarkon River near Tel Aviv on the Mount Carmel campus of Technion. Each part of the sixteen mile river is reproduced to scale along with the topography of the surrounding land. By studying flood conditions with this model, much work has been done in ways of efficiently controlling the river and saving land, lives and property. Flows from streams and tributaries

(Continued on Page 4)

Editorial...

(Continued from Page 2)

body of the School of Technology but mainly an assistant to TIIC. Nevertheless, the plan to review the structure of TIIC, is the most important single issue in the existence of the President's Council. A complete overhaul of the TIIC constitution must be made to discover the most effective way that the Tech representative group can represent the engineering body. This has been long overdue. One possible remedy to the lack of initiative and workability of the representatives of TIIC could be an election of officers to TIIC by the engineering student body. This election could coincide with the Student Government elections. We hope the Presidents Council will look into this proposal.

The President's Council also is preparing to either assist or take charge of setting up an engineering intramural league. This might possibly be the first work the council will do next term. Planning for such a league would be either on a passive level or riddled with many grievous mistakes if it is tried by TIIC. It would also require many meetings and time to prepare a league. We hope the President's Council can show us a representative piece of work that would prove it worthy of its need for existence.

One conclusion that we can draw from the inception of this council is that at last we have the start of a group of students willing to do something. This willingness has been relatively lacking in great numbers of "up North" students.



"IT'S HERE-IF YOU WANT TO WORK FOR IT"

Even before Ron Spetrino received his engineering degree from Case he had good job offers from six companies.

He joined The Ohio Bell Telephone Company—his reason: "I was convinced an engineer could go further here—if he was willing to work for it."

As soon as Ron got his feet on the ground in telephone engineering, he was tapped for a tough assignment. The job—to engineer switching equipment modifications needed to prepare Cleveland for nationwide customer dialing of long distance calls.

Ron wrapped it up in five months, and found he had earned a shot at another tough assignment. In this job Ron helped engineer a completely new long distance switching center for Cleveland. This switching center connected Cleveland with the nationwide customer dialing network. It was about a year later that Ron put the finishing

touches on the specs for this \$1,600,000 project.

Today, as a Supervising Engineer, Ron heads a staff of five engineers and is responsible for telephone switching in much of the greater Cleveland area.

He supervises the design and purchase of \$3 million worth of equipment a year. And even more important, he is charged with developing the technical and managerial skills of his staff.

Ron knows what he's talking about when he says, "In this business you have to do more than a good job. We expect a man to be a self-developer. We expect him to take responsibility from his first day on the job and think for himself. You don't get ahead around here by just doing time."

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SPORTS FOR TECH

By MARTIN KATZ

Ever since I started getting response from my articles, I have been thinking about what would have to be done to start the Slide Rule League again. I would like to see it started again for many reasons, one of them is that it would give me more to write about. When people began coming to me and asking how they could help get the league started again, I went to Warren Wolff, President of TIIC, and a person who has tried to revive the league before.

To say that he was not as hopeful as I was about the response would be a slight understatement. In fact, he warned me not to get my hopes up too high because when he had tried to revive the league, he had had people say they were interested

and also wanted to see the league start again. But, when the time came to play — nothing. Even if the response is genuine we would still have trouble. Of course, we would have to play at night. We would have to have a full league made up of all the societies to get a good turnout. As of now, the best nights are taken by I.F.C. and House Plan. Here we run into our old nemesis again — conflict of interests. People who could play in our league could also play for I.F.C. or House Plan. What happens if we over-

Let us get back to our main problem; how to go about starting the league. Mr. Wolff gave me two ways. People who are interested in playing can contact TIIC. Since it is the largest tech organization, it in turn would contact the different so-

cieties. If you are really interested, at the last meeting of your society this term, have your society make up a list of people who are willing to play any night we can get. Then, the first week next term the different societies would have to get together and make up a schedule of games for a full tournament. They would then talk to the man in charge of the night center and get a night to play. But all this is no good without the men to play.

Well, that is what has to be done to have a league next term. Warren Wolff is skeptical. I am hopeful. What are you?

CLASSIFIED AD

WANTED: K&E Log Log Vector
slide rule (used) call JE 7-1360, evenings.

Technion . . .

(Continued from Page 3)

can also be induced to increase, decrease or stop completely. This research is utilized before tackling the actual river.

Last year, the United States Air Force asked Technion to solve some research problems in rheology (behavior of flowing substances). The project has already produced a revolutionary new pump known as a centripetal pump which may throw important light on the problems of travel at high speeds.

Abba S. Eban, Israel's Ambassador to the United States, summed up his nation's pride and satisfaction in the Technion and its need in the future. "The Technion is a central pillar in Israel's scientific development. Nuclear and solar energy can compensate us for the scarcity of conventional fuels; synthetic chemistry can alleviate a shortage of natural raw materials.

Power . . .

(Continued from Page 1)

is sent to the electric generator from which a 13,600 volt voltage is taken. This voltage is then raised to 138,000 volts and sent to New York City.

The students were then ushered to the control room with its various instrumentation, the power output meters and where the light in your refrigerator is turned on and off.

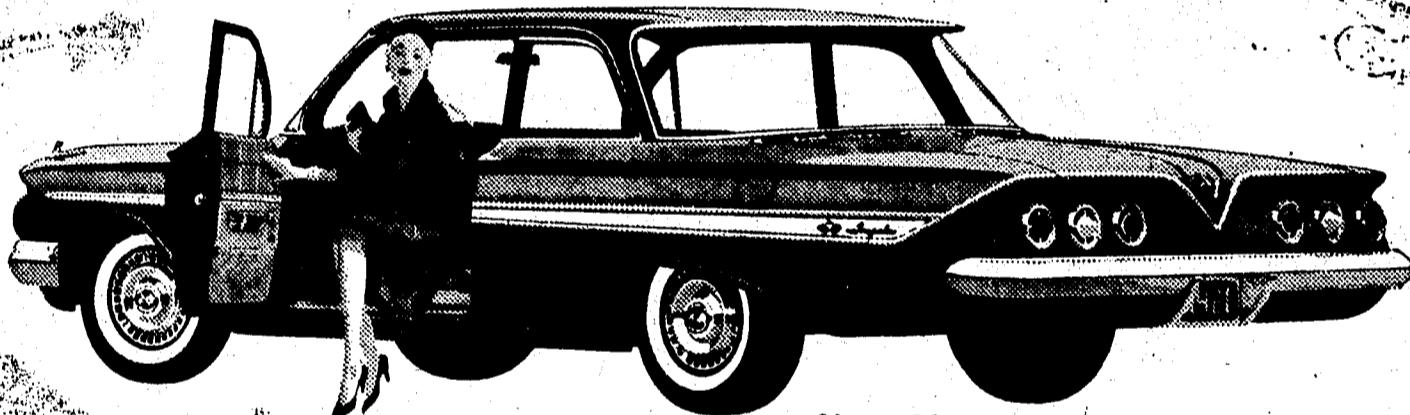
Vector . . .

(Continued from Page 1)

"Pressures" was another dividend for the readers of Vector. The measurement described is a very accurate method and great use is seen for it in the future. The uses for this device are the elimination of the McLeod Gage which is now used for low pressure measurement. The McLeod gage has the disadvantage of containing large amount of Mercury and can explode.

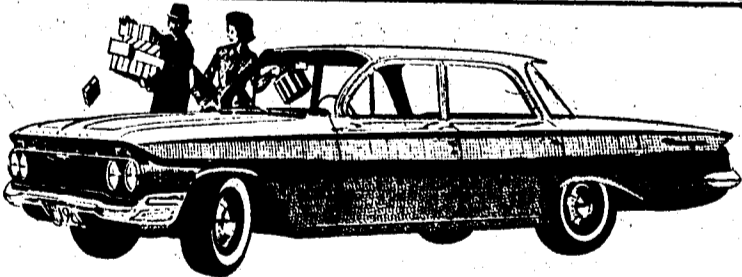
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New '61 Chevrolet 4-DOOR BISCAYNE 6

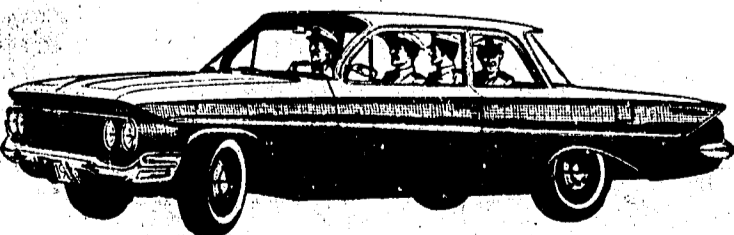
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These new Biscaynes—6 or V8—are the lowest priced full-sized Chevies. Yet they give you a full measure of Chevrolet roominess.



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One of Corvair's wonderful new wagons for '61, this 6-passenger Lakewood gives up to 68 cu. ft. of storage space.



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Beautiful Bel Airs, priced just above the thriftiest full-sized Chevies, bring you newness you can use. Larger door openings, higher easy-chair seats, more leg room in front, more foot room in the rear.



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