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## HNEWS COLLEGE OF NE W

L. XIV - NO. 5

SATURDAY, APRIL 15, 1961

222

BY STUDENT FEES

#### A Message From Pres. Gallagher

"E-Day" is an exciting and in-

May the day be one of explor-

ation and questioning, and may

you take pleasant memories

Cordially,

Welcome

From

Dean Allen

Buell G. Gallagher,

President.

formative time at City College.

Make youselves at home.

with you.

# WELCOME TO E-DAY 1961

# Tech Building Slated for 1962

\$8,000,000 School of Technology Building was started this past June. It is expected to be completed by January 1, 1962.

The new building will enable the college to increase its engineering enrollment by 38 per cent over the next seven years to meet the anticipated rise in registration, according to Dean William Allan of the school.

At present, the School of Technology, founded in 1919, is the largest undergraduate school of engineering in the state and the fourth largest in the nation.

The only one of the municipal colleges giving degrees in engineering, the City College offers undergraduate and graduate degrees in chemical, civil, electrical and mechanical engineering as well as special non-credit technical and building construction courses.

#### Modern Design

The new six-story building, modern in design, will be made of reinforced concrete with a glass-brick exterior and marble sheathing. Plans for the expansion of technology facilities go back five years, and the new building has been on the drawing boards since 1955.

With the erection of the building, the college will be able to centralize all its technology laboratories and other engineering facilities now scattered in various buildings throughout the campus.

The additional facilities will also enable the college to undertake an expanded program of independent research for governmental and private agencies. At the present time, restrictions of space and equipment which is dispersed among four existing buildings on the college campus,

Construction of the proposed have severely limited the number and scope of important research projects.

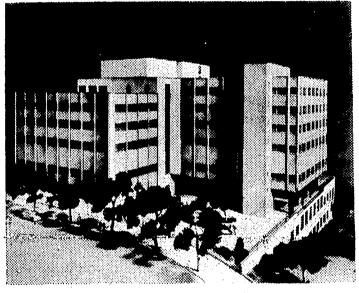
The projected structure will be used exclusively for laboratories, administrative offices and technology library facilities. The college's new sub-critical nuclear brary. The library's books were moved into the new and modern Morris Raphael Cohen Library on the South Campus.

The building will be sunk into Manhattan schist bedrock, which grades sharply between St. Nichclas Terrace and 141st Street. It

of materials. The last develops as much as 600,000 pounds of pressure.

Below the sub-basement will be reservoirs for the fluid-mechanics laboratories.

The college's engineering departments will be located according to floor, with the mechanical engineering department on the lowest stories and the civil, chemical and electrical engineering facilities on the higher floors, ascending in that order. Electrical' engineering students, on the top floor, will thus have access to the roof where they can utilize radiation and electronic antenna equipment needed in their laboratory work,



New Technology Building

#### reactor, now located beneath the stands in Lewisohn Stadium, will be moved to the sub-basement of the structure. Classroom instruction, however, will continue to be given in Shepard, 141st Street. Compton, Goethals and Harris Halls on the north campus.

## **Buildings Razed**

The technology building will be on the north end of the north campus. It will extend from St. Nicholas Terrace north to 141st Street and from Convent Avenue 200 feet east to St. Nicholas Park.

The two buildings that formerly occupied that site have been razed. They were the old ROTC Drill Hall, and the Bowker Li-

will extend six stories above the high-side of the plot, on St. Nicholas Terrace. The basement and sub-basement will be at street level on the low-side, on

#### Heavy Equipment

Of reinforced concrete flatslab construction, the structure will be T-shaped with high ceilings to allow for the installation of tall equipment. The heaviest equipment as well as those involving "dynamic loads" will be installed in the sub-basement, where they can rest on bedrock. Among the machines are heavy turbines, steam engines and civil engineering equipment used for

compression and tension-testing

Chem-Engineering

#### Many Conveniences

The building will provide 280,-000 square feet of space. In addition to the laboratories and administrative offices, there will be a small auditorium-lecture hall seating 200. There will also be a technological library seating 400 students and shelf-space for 96,000 volumes, as well as a faculty library.

The principal entrance to the building will look out on a paved terrace on St. Nicholas Terrace. Service entrances, including a truck-well and interior loading facilities, will be located on 141st Street.

Transportation within the building will be by escalator. But there will be supplementary staircases as well as small passenger and service elevators.

The entire building will be serviced by an interior-controlled ventilating system and heating unit.

Plans and specifications for the technology building were prepared by Lorimer & Rose, Architects and Engineers.

## Electrical Engineering

## A Changing Profession

Electrical engineering encompasses all these activities associated with the generation of electricity. The modern electrical engineer is continually confronted with challenging opportunities in newer fields such as electronics, radio, television, accoustics, radar, computers, servomechanisms, and other aspects of measurement and control; or he may chose a career in one of the older branches of electrical technology such as power generation, transmission, distribution, electric transportation, and wire communications.

The electrical engineering department is under the chairmanship of Full Professor Herbert Taub. Professor Taub received his B.S. degree from City College in 1940, then went on to obtain his master degree at Columbia University in 1943. In 1949 he received his Ph.D. Chairman Taub has been here since June, 1958.

Professor Taub feels that our E.E. school is the finest in the country. "Of course any chairman is bound to be prejudiced," he commented, "but our school is substantiated in making this assertion because we house the finest professors, curricula, and lab equipment for the engineer-' ing student, so that he may gradauate a well rounded individual."

#### Chemical Engineering has been defined as the application of the principles of the physical sciences with the principles of economics and human relations. This double application is used in the processes and design of equipment in which matter is treated to a change of state, en-

The chemical enginer designs and assembles operating units to accomplish one of two basic things:

ergy content or composition.

1 — Subject molecules to treatments that will change them into new and different molecules.

2 — Separate the molecules of an original mixture to yield products for use.

As an example of the first, coal, air, and water are actually transmuted into nylon. Separation of crude petrolium into gasoline, kerosene, lubricating oil and many other products is an important instance of the sec-

Broadly speaking, there are five main types of activity for chemical engineers: research, design, operation, sales and management. Being concerned with economic and human, as well as technical relations. The chemical engineer often matures as an executive utilizing his specific training and professional experience to direct industrial enterprises.

## **Tech News** Welcomes You To **E-Day**

Advances in all field of tech-

nology and in engineering edu-

cation have been so great and

so rapid in recent years that in

some applications it has been

said, "if it works, it is obsolete."

At the City College, we think

this scientific and technological

advance.

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vote of the Editorial Board

Prof. Harvey List ChE Prof. H. Wasser English Prof. E. Brenner Prof. S. W. Burgess EE Editorial Policy of TECH NEWS is determined by a majority

## Help for Graduates

With Governor Rockefeller's signing of the bills to create a City University, the College will become part of the largest university in the world. With a total of 91,000 enrolled students, the college will now achieve the prestige it deserves. It will now be able to give doctorate degrees. Nevertheless, the fight is not fully won since doctorate degrees in the sciences and engineering should also be given. Yet, research programs cost money. The Engineering Alumni has stated that research facilities for teachers must also be started at the College in order to obtain the teachers which are qualified for the graduate school.

The Engineering Alumni has decided to start research programs for teachers and has put \$10,000 as the goal for collections to initiate the program. The Alumni hopes to increase this amount in the succeeding years. It is unfortunate that New York City did not give the College money for graduate research this year.

We students can aid the Engineering Alumni to carry out its program for the teacher research. At the registration period this term, we gave our nickles and dimes for graduate research for students. We can help the graduate school again. THC should start a campaign to raise money for teacher research. The Engineering Alumni deserves any help we can give it, for its purpose is to help us, the students of the College.

## Guarding The Pastels

We were happily surprised to find after returning from the spring recess the pastel walls and freshly painted ceilings in the North Campus cafeteria. It does much to enhance the beauty of the cafeteria. We hope that this "New Frontier" of cafeteria improvements is just a beginning and that the cafeteria management will continue to make the cafeteria pleasant so students will want to come there. It is unfortunate that the new decorations are spoiled by he omnipresent and omnipotent Burns Guards.

## To Doctor Gallagher

It is sad that you are going to leave us after nine long years of service. Through the years, the College has grown

(Continued on Page 4)

## College History

City College is distinctly and uniquely the child of New York City; its classrooms and laboratories built and equipped by the city. The words of Horace Webster, first president of the College, when he addressed the 143 eager lads who made up the first entering class on January 27, 1858 reflect the philosophy that has guided the school during the past 104 years. "The experiment is to be tried," President Webster said, "whether the highest education can be given to the masses; whether the children of the whole people can be educated; and whether an institution of learning, of the highest grade, can be successfully controlled by the popular will; not by the privileged few, but by the privileged many."

Townsend Harris, first United States Consul General in Japan and President of the New York City Board of Education in 1846, is honored as the chief architect in the movement to found the Free Academy, as the college was known in its early years. His proposal evoked a storm of controversy which aligned the citizens and the press on either side of the question. After extended debate, the bill authorizing the Board of Education to establish the academy was passed by both houses of the State Legislature on May 7, 1847. Submitted to a referendum of New York City voters a month later, it was passed by a vote of 19,305 to 3,409.

Originally, the College was located at 23rd Street and Lexington Avenue, then considered a suburb of the city. As New York expanded, so did City College. In 1903, following many years of overcrowding in the original building, the present buildings were erected on St. Nicholas Heights.

Today, with a total enrollment of more than 32,000 City College is the largest municipal institution of free higher education. It accepts students without regard to race, creed or color. The ability of its student body is attested to by the fact that over a period of years, its entering freshman class has consistently ranked within the first 10 per cent in the Intelligence Tests administered annually by the American Council on Edu-

The College has served the city that gave it birth and the nation in peace and war. Its influence has been felt in every field of endeavor. A roll call of its prominent alumni is a testimonial to the contributions it has made to American life. Their numbers include Felix Frankfurter '02, Associate Justice of the U.S. Supreme Court; Robert F. Wagner '98, former U.S. Senator from New York; Bernard M. Baruch, '89, elder statesman and adviser to presidents; General George Goethals, '77, builder of the Panama Canal; Judge Samuel Rosenman '15, speech witer and adviser to presidents; Upton Sinclair '97, novelist; Cleveland Abbe '57, founder of the U.S. Weather Bureau; Alexander Smallens '09, conductor of the New York Philharmonic Orchestra; Jonas Salk, discoverer of polio vaccine and others too numerous to mention who have left their imprint on the national and local scene.

## -What Is E-Day?

By MICHAEL COOK

What is Engineers' Day? Looking around, you see equipment and apparatus, laboratories and buildings, hosts and fellow guests; but what does it all mean?

Let us first attempt a capsule definition of engineering by describing it as the science of harnessing nature for the service and convenience of man. The engineer takes the principles of science and combines them with the materials provided by nature, the arts of the past, and the ingenuity of the present to provide for continuous improvement in the standard of living of society.

Perhaps engineering begun with the first caveman who used a long stick as a lever to him move a heavy object. At any rate, the science of engineering has advanced and expanded through the ages, and has evolved into the technical profession we know today. Modern engineers have at least a bachelor's degree, and are businessmen with advanced technical knowledge as well as a thorough background in the basic sciences and arts. Today's engineer must not only bring about material improvements and technological advances, but he must do this by the most efficient utilization of materials, money and time. Every object with which we come in contact in our daily lives has at some time been subject to the servces of an engineer. Engineers are actively engaged in research, development, design, application, construction, production, sales, administration and management.

Just where does The City College fit into this picture? In June, 1919, the School of Technology was established with courses leading to degrees in chemicals, civil, electrical and mechanical engineering. During the past forty-one years, the Technology School has grown until today it educates its students in the classrooms and laboratories you see around you. Consistent with the ever-increasing demand for technically trained people, The City College is expanding its facilities to include the ultra-modern Technology Building presently under construction.

Here at C.C.N.Y., we are given excellent technical training through the efforts of our highly qualified faculty and the use of the fully equipped laboratories through which the tours are being conducted. But besides this, we are given the opportunity to fully prepare ourselves for all aspects of life. This is perhaps best indivated by the literally hundreds of student organizations active at The College. Every student may join these social, technical, religious, political or professional organizations; he can also participate in student government, write for one of the many campus publications, or just socialize in the students lounges. It is because of these extracurricular organizations that we are able to present the Engineers' Day pro-

Engineers' Day is presented by The Technology Intersociety and Interfraternity Council (TIIC), which represents all the students, engineering organizations at The College. The purpose of E-Day is to show you, our visitors, just what engineers



MICHAEL COOK Author of "What Is E-Day?"

do, and to give you some ide The CCNY c of how they do it and how the E serves to a acquire their training a cal engineeri C.C.N.Y. But more than this at is going our program gives everyone the is is done opportunity to learn more about d literature the students who will soon bembership, ar entering communities through ps to laborate out the country as graduate erark City area

future engineer? Perhaps on presentatives way to help answer that quest dio and Ch tion is to describe the manne in which E-Day is prepared Each year, in the Fall term
THC elects an Engineers' Da ASCE is a r Chairman, whose responsibilit princering Sc it is to supervise the plannin ins a student and organization of the annua CNY. Lectu program. He, in turn, selects arm the main coordinator, departmental chair cetings. men and other who staff the E-Day Committee. These com mittee members spend the next few months discussing ideas and merican Social plans with faculty members and merican social plans with faculty members and merican social plans with faculty members. fellow students. As E-Day ap ngineers at proaches, exhibits are chosen tours are planned, and a cal ampus. E goes out for guides and demon strators; a publicly program i initiated to invite you, ou guests, to visit C.C.N.Y. Finally es on a protoday, you see several hundres social level, students who have volunteered to conduct our program. These students are almost invariable articipate ac members of one or more pro fessional societies and social scuss their e groups; many of them are members of honor societies. Freque fun! quently student organization ASME has a participate as a group.

Students are not required to ectures, techn participate in E-Day. On the hajor engineer contrary, it is just one of the ical paper of many activities in which they are ating seniors. connection with their studies ASME mem The tech men don't get higher nonthly mag grades in return for their effingineering, forts today. They do, however ublications. have the rewarding experience an be obtain of sharing their acquired knowl liety, either f edge with people who are in al discounts. terested in learning more about ouraged to u engineering. Engineers' Day is es of the Engineers another opportunity for our stulp ibrary. dents to take part in community activities at C.C.N.Y.

We sincerely hope that our erest in professors have accomplished their nd social a purpose. You have had a nembership a chance to learn what an engineend the week neer does and to see the kind of equipment that he designs and uses. But, just as important you have had the opportunity to meet our students and to real livil Engine ize taht The City College of iety. Junior New York is not merely an in he top third stitution for turning out "egg classes are cheads" or "sliderule pushers!" bership but Rather, our students are given n practically the opportunity to leave college haracter. The ready to assume their roles in rated to the life as technically trained dyna aining and pr mic citizens of an ever-advance of Civil Engin ing American society.

hool of Te ny opportun students ation interes iving recogn ding charact in the va societies and

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Included amo What kind of people are thes the last few-

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profession.

## **Engineering Societies**

udents enrolled in the hool of Technology have ny opportunities to meet students with the same ation interests as well as iving recognition for outding character and scholarin the various engineersocieties and fraternities.

#### *AIChE*

IChE is another professional anization with a student nch at City College. Lectures chemical engineering practice opportunities are delivered meetings, and movies are

#### *AIEE-IRE*

COOK

Is E-Day?"

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ou some ide the CCNY chapter of **AIEE**and how the E serves to acquaint the elecaining acal engineering student with re than this at is going on in industry. everyone the is is done trough lectures n more about deliterature mailed to its will soon bembership, and by occasional ties through ps to laboratories in the New graduate en rk City area.

Included among the speakers pple are the the last few terms have been Perhaps or presentatives of IBM, Zenith er that que dio and Chester Wheeling.

#### **ASCE**

e Fall term
gineers' Da ASCE is a professional Civil responsibilit ngineering Society that mainthe planning ins a student chapter here at f the annua CNY. Lectures and movies arn, selects arm the main content of **ASCE** ins a student chapter here at mental chair cetings.

#### **ASME**

end the nex ing ideas and The student branch of the members an merican Society of Mechanical ngineers at CCNY is one of s E-Day ap e largest societies on the are choser , and a cal ampus. Established in the ear 1922, the ASME at the and demon llege brings together mechan-/ program i al engineering under-gradue you, ou les on a professional, as well N.Y. Finally social level, so that they may eral hundred crease their technical knowlvolunteered ige in both scope and content, gram. Thes articipate actively in professt invariably onal conventions, express and iscuss their engineering ideas, and socia of service to the college, and em are mem ave fun! cieties. Fre

ASME has a full program of organization ctivities including technical required to ctures, technical films, trips to lay. On the lajor engineering firms, a techwhich they mual cocktail parties for grad-nas no direct ating seniors.

ASME members receive the t get higher nonthly magazine Mechanical for their effingineering, and many other do, however ublications. Technical papers g experience an be obtained from the souired knowl iety, either free or at substanwho are in al discounts. Members are enmore about ouraged to use the free facili-eers' Day is es of the Engineering Societies

Undergraduate mechanical enineering students with an inerest in professional, technical nd social aspects of ASME nembership are invited to atnat an engilend the weekly meetings.

#### Chi Epsilon

s important Chi Epsilon is the National and to real livil Engineering Honor So-College of lety. Juniors and Seniors in the top third of their respective g out "egg lasses are eligible for members!" Pership but election is based ts are given practically, socialability and leave college haracter. The society is dedineir roles in ated to the purpose of mainrained dyna aining and promoting the status ever-advanc of Civil Engineering as an ideal profession.

ARS

The student chapter of the American Rocket Society was created five years ago as a subdivision of ASME. In October of 1959 the chapter was officially chartered by the national Membership Board of the American Rocket Society. The avowed purpose of the society is to advance the sciences of Rocket and Jet Propulsion and Astronautics. The present membership of the student chapter totals 65 students. The society draws its members from among liberal arts students as well as members of the school of Technology. Within the past year the Society has had as its speakers Professor Jerry Gray, Princeton University (Forestal Research Center), Arthur Sherman, (C.C.N.Y. Alumnus), chief project engineer Reaction Motors Division Thiokol Chemical Corporation (concerning the ZLR-99 engine for the X15). The Society has sponsored a tour of the Naval Air Rocket Test Station Denville, New Jersey, and is currently planning a tour of the G. E. Guided Missile and Space Vehicles Laboratory in Philadelphia.

Members of the Student Chapter are currently engaged in individual and group projects in the fields of astronautics and jet propulsion. The students engaged in research are pointing towards the 1000 dollar ARS Student Scholarship which is awarded annually to the student or group of students writing the best paper in the field of astronautics. During the first two years that the award was being presented it was won by students at the City College of New York. In addition, the Society publishes two monthly magazines Astronautics (a semitechnical publication) and Journal of the American Rocket Society (a collection of highly specialized papers which have been presented at the various ARS technical meetings that are held during the year.)

#### Eta Kappa Nu

Eta Kappa Nu was founded in 1904 by the University of Illinois by a group headed by Maurice L. Carr. The aims and principles established by these men were to assist its members throughout their lives in becoming better men in their chosen profession and to help them become better citizens. The Beta Pi chapter at City College has approximately 40 members who plan to enter the field of electrical engineering.

#### Pi Tau Sigma

Pi Tau Sigma is the honorary society for mechanical engineers. Students are eligible for admission if they are in the top fifth of the upper junior class, or the top fourth of the lower senior class, and show promise of success in the field of engineering. Most of the twentythree active members participate in other organizations. Pledgees get an opportunity to meet their brothers at various occasions, such as the smoker, and through interviews before their induction. Pi Tau Sigma provides the mechanical engineering laboratory insurance program to reimburse the student for broken equipment.

### **SAME**

The largest engineering fraternity on campus is the Society of American Military Engineers. This national organization, the largest of its type in the country, co-ordinates the Corps of Engineers at local and student military posts. The purpose of the organization is to advance knowledge of military engineers, to encourage, foster and develop between military engineers and the military service a spirit of co-operation and mutual understanding of respective duties; to hold meetings for the presentation of speakers who are successful engineers in their respective fields. Members must either be in the School of Technology or the ROTC. SAME can boast of having well known members as Dwight D. Eisenhower, General MacArthur, and General Goethals, for whom Goethals Hall is named.

#### SWE

The Society of Women Engineers (SWE) is the organization which unites the few women engineers on campus. SWE's purpose is to provide part of the encouragement a girl needs to attempt the engineering program. SWE also tries to illustrate the potentials for women in engineering through its semiannual tea. Finally SWE tries to acquaint its members with the various engineering organizations and to encourage their membership in not only SWE but also the professional society of their repsective fields.

#### Tau Beta Pi

Tau Beta Pi is the national honorary society for engineers. The national organization was founded in 1885 at Lehigh University by Professor H. Williams, Jr., to recognize superior students in the field of technology to whom Phi Beta Kappa was closed. The purpose of Tau Beta Pi is to mark in a fitting manner those who have conferred honor upon their alma maters by distinguished scholarship and exemplary character as undergraduates in engineering or for their attainments as alumni in the field of engineering, and to foster a spirit of liberal culture in the engineering colleges of America. The CCNY chapter was founded in 1940, to become one of the 102 chapters who had previously elected more than 100,000 members to its ranks. The 30 active members of Tau Beta Pi, along with the members of the other honorary societies, compute the averages and rank of all juniors and seniors in the school of Technology. Well known speakers are invited to speak on nontechnical subjects. Last year, the fraternity inaugurated music listening hours in Knittle Lounge. The annual Art Exhibit which Tau Beta runs on E-Day, will begin a few days before E-Day this year so that the student body may have an

## Choose just the Jet-smooth Chevy you want in one stop at your Chevrolet dealer's

Here's the choice that makes choosing the new car that's right for you easier than ever. Thirty-one models in all designed to suit almost any taste, priced to suit almost any budget. There's a whole crew of Chevy Corvairs, including thrifty sedans and coupes and four wonderful new wagons. Budgetwise Biscaynes—lowest priced full-sized Chevrolets. Beautiful Bel Airs, sumptuous Impalas and America's only true

sports car—the Corvette. Drop by your Chevrolet dealer's and do your new car shopping the easy way -in one convenient stop.





opportunity to see it.

New Chevrolet IMPALA SPORT COUPE

All five Impala models combine Body by Fisher beauty with a new measure of practicality. Door openings of this Sport Coupe, for instance, are over a halffoot wider this year.



New Chevrolet IMPALA CONVERTIBLE

Here's one wide open for fun and a lot of the fun is in Chevy's Jet-smooth ride. Add Turboglide transmission (extra-cost option) to this or any Chevy V8 for tops in easy going.



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Loads of space inside—and still more in the trunk up front. And with all their wagon-size versatility, these rearengine Lakewoods handle like a charm.



WIDE CHOICE OF OK USED CARS, TOO!

More people are buying new Chevrolets than any other make. So your dealer's got a wide choice of OK Used Cars.





New Chevrolet BEL AIR 4-DOOR SEDAN

Priced just above the thriftiest full-sized Chevrolets, all four Bel Air models bring you beauty that likes to make itself useful.

Slimmer and trimmer on the outside; yet inside there's a full measure of Chevrolet's roomy comfort.

See, the new Chevrolet cars, Chevy Corvairs and the new Corvette at your local authorized Chevrolet dealer's!

(Continued from Page 2)

under your guidance to a high rank in academic circles. We and the student body wish you luck as Chancellor of the California State College system.

## We Extend Greetings

The staff of TECH NEWS welcomes you who have come to E-Day. Whether you are a student or parent, we hope that you will enjoy seeing what the engineering profession is like.

The roles of the engineers vary in scope from pure research, to development of various products and even to the building of bridges. The promising future for engineers grows daily with the many new products that are constantly being developer. What you will see here is just a sample of what the engineering student does at CCNY.

We hope that you will be enlightened and become interested in engineering through your visit this E-Day, and that you have tasted some of the spirit of City College.

## Hail and Farewell

TECH NEWS wishes to express its regret at the resignation of President Gallagher. Dr. Gallagher, in his nine year stay at CCNY, has served with dignity and efficiency. He has attempted to guide students along a path of democratic liberalism. Though his methods were often criticized, Dr. Gallagher strived mightily to prevent Communism from re-establishing a foothold at the College. He never hesitated

## The Atomic Reactor

As atomic energy moves from the domain of physicists into its technological domain due to its engineering application for electrical power generation and as an energy source for transportation vehicles, it becomes more apparent that engineers shall have to be trained in its use and application. City College in its atomic reactor laboratory has the nucleus of just such a training program.

The reactor itself bears little resemblence to those used for actual power generation buit it illustrates certain fundamental principles involved in using atomic energy at a controlled rate for peaceful purposes. Along with the display of the reactor there will be shown several radiation counters which measure the number of atoms breaking down per unit time in a sample of any given material.

The Wilson Cloud Chamber which is a more fundamental device used for the detection of atomic particles will also be illustrated. Using the cloud chamber enables the investigator to observe the paths of atomic particles which are invisible to the naked eye.

The Metallurgy Laboratory has on display some of the equipment used to investigate the microscopic structure of metals. This is important to the research now being conducted to find "exotic materials" capable of withstanding severe environmental and loading conditions.

Producting the innumerable products used by our complex civilian and defense economy has always been an important part of mechanical engineering. In the production lab there are displays of some of the basic machine tools which are the

to speak out on an issue if he felt that it should be brought to the student's attention.

Dr. Gallagher waged a constant struggle to improve and enlarge the City College. During his sojourn here, the size of CCNY more than doubled, and construction was begun on three new buildings, one of which, the Cohen Library, has already been completed.

Dr. Gallagher's office in Shepard Hall is always open, and a student need merely give his name in order to receive an appointment with him. Dr. Gallagher was always friendly and easy to talk to.

To Dr. Gallagher we can only say that you were well-liked by the students, all of whom are sorry to see you leave. Hail and Farewell.

building blocks of our naproduction system.

Many of the displays in applied mechanics laborat will be senior research project on the dynamics and stranslysis of machine parts. A menting these displays will simple models illustrating basic physical laws.

# The Open Book

The topic "Mechanisms is a closed book" was presen before the ASME in what wone of ASME's most stimulat and thought provoking lectuof the year.

Mr. Walter Musser of United Shoe Machinery Conventor of the recoiless rifles hold of over 250 U.S. Pater spoke on his most recent invition, the harmonic drive.

This device is a power tramission mechanism who makes use of controlled defition which can be produced all materials used for mach construction.

A two-stage harmonic drunit, which is compact ligand very rugged, can production ratios of up to 20 000:-1. Other applications clude precision indexing, and lar phasing, and timing devicand power transmission throusealed metal walls.

# CITY COLLEGE STORE Pre-Inventory Sale

## Paper Back Books

3 Days Only — April 17, 18, 19

## ALL

PAPER BACK TRADE BOOKS

20% Discount

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- Meredian
- Outline

Everything in Stock Must Go!

COME IN EARLY!

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- VANGUARD
- AUDIO FIDELITY
- ELEKTRA

Any Record in Stock of Above Labels

50% Discount

3 Days Only APRIL 17, 18, 19

## Slide Rule Sale

ONCE-IN-A-LIFETIME

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