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CITY COLLEGE OF NEW YORK

VOL. XXI - NO. 10

WEDNESDAY, MARCH 3, 1965

STUDENT FEES

the piazza S Riots Spur Collegians The scale w Protests Here Also

By CARL WEITZMAN

Last year's riots at Berkeley and in Harlem have culminated in the sporadic eruption of far left demonstrations at City College. Students protesting Central Intelligence Agency er is that of t man who to CIA) recruitment on Campus picketed on the fourth floor of ivic affairs, warinley Hall last week, befuddling interviewers and embarassing job-seeking seniors.

On another front the arrest of e medieval cicity College student Elinor Goldundoubted tein for contempt of Court prompted a sit-in at Dr. Galagher's office two weeks ago. The ipshot of this demonstration has unity of designeen the formation of a "Free nd human scattudent Movement," which has y even tod: ised the Student Government Ofice (at the invitation of S.G. president John Zippert) for its organizational meetings. This ial district a roup charges that Miss Goldstein e in New Youngs been "witch-hunted" for her leval period, tholitical activities on this camous only, irrelevant to her acty were all ivities off campus. Officially, Aiss Goldstein has been arrested or refusing, under supoeña, to ainst the nob estify against "friends" who had this sense, collegedly been involved in last ummer's Harlem riots. The arta a reactio Free-Movement" replies that, although the D.A. has extended mmunity to Ellie, she is still liaole to Federal prosecution on the asis of whatever information is to gain their ends."

gathered from this Grand Jury Hearing."

"Free Student Movement" clubs such as Progressive Labor, have flooded City College with reams of publicity (much of it unregistered) excoriating Dr. Gallagher for political cowardice, demanding Goldstein's release, and advocating immediate American disengagement from South Viet Nam. Relatively right-wing groups such as young Democrats and Young Conservatives have carried on publicity campaigns against these groups and their motives. On at least one occasion at a Student Council meeting President Zippert has condemned the Young Democrats as "Red-Baiters."

On November 18, Dr. Gallagher entered the fray in full force and charged after an impassioned speech decrying "eristic controversy," that these student protesters would destroy this University

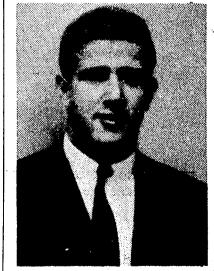
Statistics Indicate New Trends

Employment statistics for last term's graduates have just een released by the Placement Office. These figures indicate ome new trends in industrial hiring and salaries.

According to Mr. Charles K. Meyer, assistant Placement direcor, Aerospace is hiring less engieers than in previous years and rivate industry is hiring more han ever. The increase is embloyment in private industry is e to recent corporate tax cuts. The hiring situation of engineers, n the whole, is holding steady lespite defense department cut-

Civil Engineers are accepting ore jobs with small private onsulting firms and their salaries ange from \$480 monthly to \$650 ccording to graduating averages. verage salaries of Civil Engieers have remained comparaively stable although there is a ecrease in the top and bottom

gures with those released last group.



MR. CHARLES MEYER

year shows a rise in average A comparison of this term's salaries in the entire engineering

	June 1964	Employment Statis	SIICS	
		Average Monthly	Total Range	
Degrees	No.	Salary	High	Low
Chem E	. 54	600	665	520
CE .	30	598	640	540
EE	151	612	700	542
ME	75	604	672	540
January 1965 Employment Statistics				
Chem E	10	641	700	610
CE	13	580	650	435
EE	44	632	745	576
ME	20	621	700	583
				- Altman

NOTICE TO STUDENTS

Those students interested in the College's work-study program may make an appointment to consult with Mr. Ernest Schnaebelle of the City College Placement Office, 423 Finley.

Weitzman Announces Candidacy

Carl Weitzman, Councilman '65, today announced that he will seek the student body presidency. Weitzman, a senior, will run in opposition to Zippert's "off-campus" policies. Weitzman's basic criticism of the Zippert Administration has been its "exhibitionist concern with problems on other continents, and its demonstrated impotence to perform the services for this campus."

Other possible candidates, prominently mentioned are: John Zippert, incumbent President, Joel Glassman, Councilman and a Zippert "supporter," and Treasurer, Marty Kauffman. Marty is expected to announce his candidacy

Rosenberg Asks Funds

Dr. Gustave G. Rosenberg, chairman of the Board of Higher Education, and Dr. Albert H. Bowker, chancellor of The City University of New York, appeared before the Board of Estimate and the Finance Committee of the City Council last Tuesday to ask for the adoption of the 1965-66 Executive Capital Budget as presented by Mayor Robert F. Wagner. The budget provides \$28,206,195 comprised of \$26,841,-362 in city funds, \$1,334,000 in state funds, and \$30,833 in private funds.

The long range building program of the City University is geared to the Master Plan which has been adopted. The plan schedules the colleges to enroll about 54,000 day session students in the senior colleges in 1968 and 17,500 in the community colleges. The buildings required to accomplish this goal will cost an estimated \$240,000,000 some of which is already allocated.

Dr. Bowker said in his presentation, "The sums provided in the budget are a needed step toward the minimum facilities that will permit our professional and administrative staffs to perform the important functions that New York City and its university rightly demand of them."

Dr. Rosenberg said: "We now have 131,000 students in ten colleges. An eleventh college, the College of Police Science, will be open in September. But impressive as the progress of recent

(Continued on Page 2)

Council Seeks To Bar Pickets

By RICHARD ROSENFELD

A protest seeking to bar all picketing within City College buildings has been lodged with the Administration by Tech Council.

In a letter addressed to President Gallagher the Tech Council sub-committee referred to the picketing incident which took place on Wednesday, February 24. At that time a group from the Youth Against War and Facism staged a protest in the corridor outside the Placement office in Finley Center. The group was protesting the presence of the Central Intelligence Agency which had interviewers to recruit students. At the same time a counter picket was staged by the Young Conservative Club.

The resulting noise and confusion caused many of the interviewers from other firms to cut Rene Olivaris, President of Pi Tau short their stays.

The Tech Council letter stresses of IEEE, Richard Daniels, past that incidents of this type in-President of Tau Beta Pi the fringe on the academic freedom National Engineering honor soof students not involved with ciety, and Gerry Gelbwachs, either group. It asks that in the President of Eta Kappa Nu future the Administration should the Electrical Engineering honor instruct Burns Guards that no society.

picketing of any sort be allowed within buildings on campus, but only out of doors.

Tech Council has received the unofficial backing of officials from the College Placement Office who were greatly disturbed about the effect of such incidents on representatives from industry.

Council hopes by its action to get a clear statement on rules concerning picketing from President Gallagher.

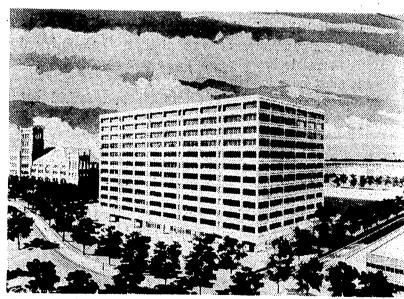
The Tech Council sub-committee is headed by Robert Tutelman past president of Pi Tau Sigma, the Mechanical Engineering honor society. The members are Clifford Tesser, Tech Council President, Sigma, Eugene Weitz, President

Science Complex: Glass Mammoth

By ARTHUR LANDSMAN

News Analysis

Efficient planning for school expansion becomes more essential everyday, and may be defined in terms of flexibility, expandibility, adaptability and convertability. These terms point up one prime factor, that a school must above all adequately serve the teaching needs of the present and future.



Architect's version of City College's projected science and physical education building.

Critical systems to judge archi-lattempt an analysis of the first tecture go back to Vitruvious, building to be constructed as part whose comment that architecture of the "Master Plan" for City is an amalgamation of Function, | College, the Science and Physical construction method and esthetic | Education building. pleasure, or in Sir Henry Wooten's terms, commodity, firmness but is rather well integrated into and delight. These systems have his society, surroundings and enserved as valid criteria in the past, | vironment. This being true it is and have not yet been supplanted analogous that a building lackby better evaluative methods | ing the mobility of humans is With this in mind we may now

Man is not a being unto himself.

(Continued on Page 4)

Budget . . .

task before us.

(Continued from Page 1)

step forward in construction at

its colleges by providing a capi-

tal budget of \$45,000,000 - the

largest in the history of the col-

leges of the City University. Al-

most all the projects we requested

have been granted for the coming

year or scheduled by the City

college construction. This is a good budget. It takes an orderly and decisive bite ou of our total program. But clearly EEE w we will have to spend additionales of sums in the following two years M., a if we are to reach our goal. We wer dis feel a little like Marathon run ners grasping a new torch every ited.

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Planning Commission for the next five-year period. time around the calendar." GROW WITH A **GROWING COMPANY**

Brooklyn Union Gas, one of the leading companies in the dynamic gas industry, offers outstanding potential for individual growth. Our 35-week formal training program is designed to start new graduates on a career with our company.

If you will be a 1965 graduate in Engineering (civil. industrial, mechanical, electrical, chemical), Accounting, Mathematics or Business Administration, ask your Placement Office for a copy of "Launch Your Career with Brooklyn Union", and register for our campus interview date on March 10.

Good starting salaries, excellent working atmosphere in the great City of New York, many benefits including tuition aid up to 100 percent for students interested in furthering their education.

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ENGINEERING REPRESENTATIVES WILL BE ON CAMPUS TO GIVE SENIORS AND GRADUATES COMPLETE DETAILS ON

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See your College Placement Office now for an appointment.

Monday, March 15

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Dear Governor

The passage of the Free Tuition mandate yesterday by one an accumulation of smoke, say House of the State Legislature, and its assured passage by the other, symbolizes the first milestone for Free Tuition in four years. Now begins a campaign to discourage Governor Rockefeller from vetoing the bill. If your parents care at all about keeping City College free, they should be advised to bombard the Governor's Mansion with tactful appeals to his good (political?) sense.

The address is: Governor Nelson A. Rockefeller Capitol Hill, Albany

Problem: Pickets

With regard to the protest being lodged by Tech Council we find that we are wholly in accord with the sentiments voiced in their letter to President Gallagher.

Academic freedom is a multi-directional concept and vigilence must be maintained that in giving freedom to one group another does not suffer.

Indoor picketing at City College can do nothing but intefere with those attempting to conduct the various aspects of college life. In the instance last week, students seeking job interviews with engineering firms became the innocent victims of inconsiderate pickets. Ostensibly out to protest against the CIA, the picketing group forced interviewers from other industrial organizations to short change fellow students seeking employment.

We firmly believe in the right of any group to voice its opinion on campus. However we feel that when such action transcends sensible bounds and threatens the well being of others it must be stopped. We urge President Gallagher to follow the suggestion of Tech Council and forbid future picketing within City College buildings.

Faculty On Asia

While leafing through the pages of the Sunday New York Times we came upon an ad sponsored by the University Committee to Protest the War in Vietnam. The ad took the form of an open letter to President Johnson and was signed and paid for by staff members from twenty colleges and universities in the New York - New Jersey area. Included in this list were the names of 42 teachers from City College.

We must express our agreement with the position taken by the University Committee, which is that the United States should seek on to end the war in Vietnam and the withdrawal of American troops, and our delight that faculty members from City College have taken the initiative to speak out against the government's policies. We only wish that the list of names could have been longer. It is the duty of educators, who are the intellectual leaders of our society, to make known their views on important issues, and particularly in times of crisis.

Old Days

By LEONARD SOLOMON *******

How many times have you been in a room in Shepard Hall muttering to yourself, "I wish it wasn't so hot," or "Why is it so cold?" You would think that this problem could be solved by installing good central ventilation. The fact is, Shepard Hall once did have

In the year 1906, Shepard Hall was completed with a central heating and central ventilation system. Actually, the system was quite simple. The main heating element, of course, was the common radiator. The second source of heat was in the ventilation unit. If you look around the walls in Shepard Hall you can see the grill work that led to the ventilation ducts. These ducts were connected to a pump that constantly circulated the air. There was also a system of coils that heated the moving air. There could never be from cigarettes, because the air was constantly being filtered. If the air became too warm, the temperature could be lowered by individual thermostats in each room.

The next logical question is, What happened to this Shangri-La?" This system was discontinued more than twenty years ago due to maintenance problems. Students, in regulating the heat, would break the thermostats. Checking the broken thermostats, maintenance men would find paperclips, sticks, and other oddities enmeshed in the mechanism. It is unfortunate that the students could not appreciate this convenience, and unfortunate that the college has, in many cases moved backward instead of forward.

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Club Notes

IEEE

m. But clearly EEE will present representapend additionales of Bendix Corporation, ving two years M..., and American Electric our goal. Wewer discussing job placement, Marathon run ursday 12:15 in S306. All are

MECHANICAL ENGINEERS

f you are a senior in the top of your class or a junior in top 1/5 of your class you are gible for membership in this norary society. It gives the outnding student an opportunity serve school and community. rch 3, at 5:15 p.m. in F440.

HILLEL

First program in a series of lectures on "The Religious Thought Of Four Major Jewish Thinkers." Dr. Michael Wyschograd, Assistant Professor of Philo., C.C.N.Y. will speak on Martin Buber - the Pioneer in Existenialist Philosophy at Hillel House, 475 W. 140th Street at 12:15 p.m.

GOVERNMENT AND LAW SOCIETY

Government and Law Society presents: Dean Gerald A. Bilbride Assistant Dean of Brooklyn Law School Speaking on the Study of Law at Brooklyn Law College, first meeting is today, Thursday, March 4, 12:30, Wagner 212.

The American Institute of Aeronautics and Astronautics (AIAA) is designed to appeal to students of different academic levels in a majority of the engineering disciplines (A knowledge of gas dynamics, for instance, is not necessary to enjoy the benefits offered by the Club.)

The student branch serves, prithe Grumman Aircraft Engineer-Apollo Lunar Landing Mission. A film series ranging the specsemester.

A program is now in operation whereby upperclassmen apply

marily, as a liason between the student and industry. This term ing Corporation will send three speakers to address the group on a variety of subjects including the trum of Engineering disciplines will also be shown during the

their talents to personal projects.

The program is directed by Professor Menkes (ME Department) events Spring Term 1965: and is financed by the NSF, Students needn't necessarily be members of AIAA to participate in this program.)

The organization is a complete one in that it attempts to provide Seitz, subject The Design of an activity or an interest to each of its members. It is in the best interests of students, lower classmen in particular, to come down Landing Mission. and find out firsthand what the AIAA can do for them.

Schedule of AIAA primary March 4-Speaker Mr. K. Leib,

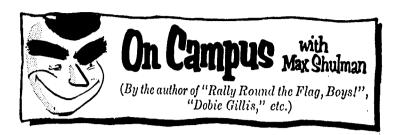
subject Lasers.

March 18 — Movie, Approach-

ing the Speed of Sound. April 8 — Speaker Dr. C. P.

Training Equipment. May 6 — Speaker Mr. J. M. Cook, subject The Apollo Lunar

May 13 — Movie, Atoms for Space.



ONCE MORE UNTO THE BREACH

Today I begin my eleventh year of writing this column in your campus newspaper.

I wasn't sure I'd be coming back this year. After a decade of doing this column, I had retreated to my country seat, tired but happy, to enjoy a nice long rest. But last night as I sat on my verandah, peaceful and serene, humming the largo from A Long Day's Night and worming my dog, a stranger suddenly appeared before me.

He was a tall, clean-limbed man, crinkly-eyed and crookedgrinned, stalwart and virile. "How do you do," he said. "My name is Stalwart Virile and I am with the Personna Stainless

Steel Razor Blade people."
"Enchanted," I said. "Take off your homburg and sit down." I clapped my hands sharply. "Norman!" I called. "Another chair for Mr. Virile!"



"Another chair for Mr. Virile!"

Obediently my dog trotted away and returned directly with a fanback chair of Malayan rattan. He is the smartest dog in our block.

"I suppose you're wondering why I am here," said Mr. Virile, seating himself.

"Well, sir," I replied, my old eyes twinkling roguishly, "I'll

wager you didn't come to read my meter." You can imagine how we howled at that one!

"That's a doozy!" cried Mr. Virile, finally catching his breath. "I must remember to tell it to Alice when I get home."

"Your wife?" I said.
"My father," he said.
"Oh," I said.

"But enough of wit and humor," he said. "Let us get down to business. How would you like to write a campus column for Personna Stainless Steel Razor Blades?"

"For money?" I said. "Yes," he said.

"My hand, sir," I said and clasped his. Warmly he returned the pressure, and soft smiles played upon our lips, and our eyes were moist with the hint of tears, and we were silent, not trusting ourselves to speak.

What will you write about in your campus column?" asked

Mr. Virile when he was able to talk again. "I will take up the burning issues that vex the American undergraduate!" I cried, bounding to my feet. "I will explore, without fear or favor, such explosive questions as 'Are roommates sanitary?' and 'Should proctors be given a saliva test?' and 'Should capital punishment for pledges be abolished?' and 'Can

a student of 19 find happiness with an economics professor of 80?" "And will you also say a pleasant word from time to time about Personna Stainless Steel Razor Blades?" asked Mr. Virile.

"Sir," I said simply, "what other kind of word except pleasant could I possibly say about Personna Blades, which give me more luxury shaves than Beep-Beep or any other blade I might name?"

"Another of my products is Burma Shave," said Mr. Virile. "Can you find it in your heart to mention Burma Shave occa-

'But of course!" I declared. "For is not Burma Shave the whisker-wiltingest lather in the land?"

"Yes," he admitted.

And then he shook my hand again and smiled bravely and was gone—a tall silhouette moving erectly into the setting sun. "Farewell, good tonsorialist!" I cried after him. "Aloha!"

And turned with a will to my typewriter. @ 1965, Max Shulman

The makers of Personna® Blades and Burma Shave® are happy to bring you another season of Max Shulman's uncensored, uninhibited, and unpredictable column. We think you'll be happy too when you try our products.

The Naval Oceanographic Office needs engineers as well as oceanographers for its long-range research program

The sharply-increased emphasis on finding ways of exploiting "inner space" has opened new and broadened opportunities involving the design, development, testing and evaluation of electronic, mechanical, electromechanical, and optical instruments and systems. Electronic engineers, mechanical engineers and engineering physicists carry out challenging assignments in modern laboratories, in managing systems development with industry, or conducting field experiments in ships, submarines and aircraft. So, when we speak of a long-range technical and scientific research/program, we speak of a massive effort over the course of years in these important areas:

1/ General Oceanography-the physical, biological, chemical, and geological makeup of the oceans and ocean floor. Not only does this involve the study of waves, sea ice, tides and currents . . . but also the propagation of sound and sonar in the sea... the analysis of the sediments on the bottom as they might apply to undersea warfare . . . and biological reports on marine vegetation, animal life, and organisms with special regard to fouling and boring.

2/ Geophysical & Geodetic Surveys—on land and at sea. Analyses and measurements of gravity and magnetic fields to provide accurate positional data for the Navy (sites for missile range stations, air and marine navigation aids, etc.)

3/ Bathymetry—use of new precision electronic depth and location techniques to accurately portray ocean floor. Survey ships the world over are probing the ocean depths in the deepest regions of the world to improve nautical charts, and enlarge scientific understanding of heretofore unknown environmental elements.

4/ Oceanographic Instrumentation-involving the latest principles of electronics, optics, and nucleonics, EE's and ME's initiate and carry out contractual systems programs with industry, and perform hydrodynamic studies leading to the design of components for instrumentation.

5/ Information Processing—through the use of computer systems. Programming of statistical, scientific and technical data such as Loran navigational tables and survey coordinates . . . sea water densities . . . underwater sound velocities . . . dynamic depth and grid transformations.

6/ Cartography-including modern portrayals of charts, reports, and diagrams required for navigation by the Navy and Merchant Marine. Designing charts showing depths, contours of the ocean floor, channels and shoals, coastal topography, etc., with the aid of aerial photography and photogrammetric equipment.

From the foregoing it should be obvious that oceanographic research today and in the future offers a new horizon of opportunity for talents not ordinarily thought of as related. Among those talents needed immediately by the Oceanographic Office are Mathematicians, Physicists, Chemists, Meteorologists, Cartographers, Geophysicists . . . and Engineers of all kinds (Civil, Electronic, Mechanical and General). Openings exist at all levels, from recent graduates to recognized authorities in the \$8945 to \$13,445 range, with the full benefits of Career Civil Service.

You must have your degree, and a U.S. Citizenship. Other than these "musts", you should be able to offer an applied research capability in your specialty, and a willingness to spend a reasonable amount of time on field work involving travel.

ON-CAMPUS INTERVIEWS

Representatives from the Naval Oceanographic Office will be on campus Tues., March 9th, 1965, City College of New York. Contact your College Placement Officer to arrange an interview.

U.S. Naval Oceanographic Office

SUITLAND, MARYLAND

(LOCATED JUST 7 MILES SOUTHEAST OF THE WHITE HOUSE) AN EQUAL OPPORTUNITY EMPLOYER

ity Employer

${\it Mammoth}$. . .

(Continued from Page 1)

greater in its affects on its surroundings and in turn is more greatly affected by its environ-

The planned Science and Physical Education complex creates

repeated pointed arches, seemingly tireless in their upward unity. striving. The Science building has the impression of a great glass mass the Science building will serve to further separate the roundings the building need not College we cannot hope for and concrete mammouth trying to assume the role of focal point on North and South Campuses by bully its way onto the campus. North Campus, the position now acting as an elevated buffer zone, and finals or any other portion of potential exists, but the phil It does not belong, it does not occupied by Shepard Hall, establishing a third campus off by Shepard Hall, but its scale and times are mighty.

relate to its surroundings, in scale | Shepard serves as unifying force | itself rather than a unifying ele- | emphasis should harmonize, nor in accent. The Gothic struc- between the smaller Gothic struc- ment. A plaza requires human tures of City College have pre-tures on North Campus, the new scale in order to fulfill its pur-tate in its sterility to one of dominantly vertical lines with Science building will destroy this pose, otherwise it becomes a vast building on campus, the Admir relationship and create no new

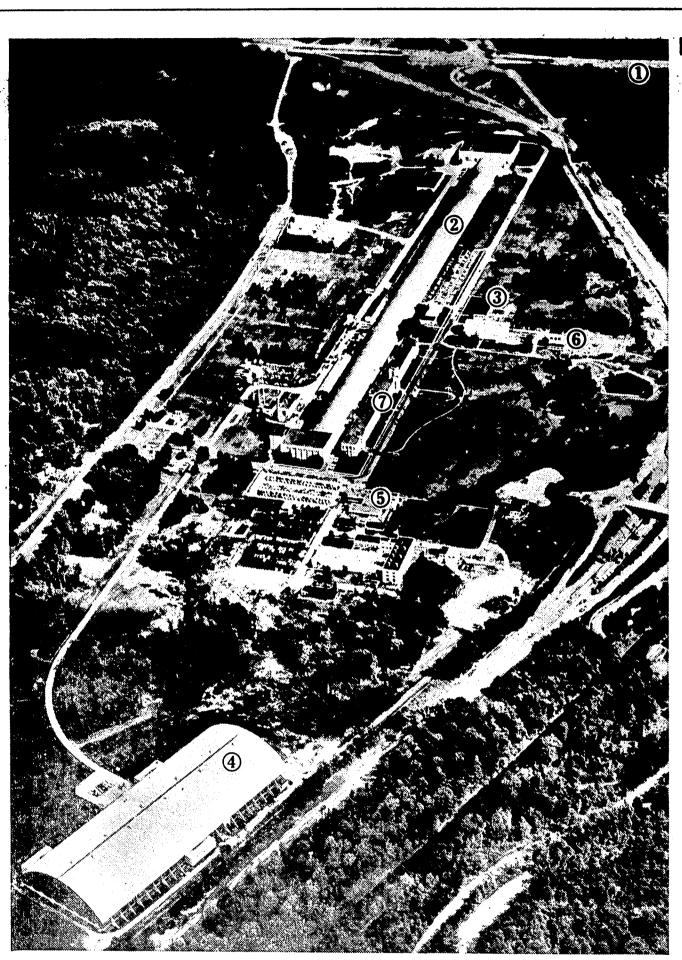
a basic horizontal emphasis giving new construction will be a plaza ned lacks this vital ingredient of the feeling that it is a stranger which will span Convent Ave. scale. come to roost. Due to its large More than anything else this will

open area dwarfing its users, expensive to build and functionally likely that any architect wo One of the main features of the worthless. The huge plaza plan- set this as a goal.

In order to relate to its sur- in the physical expansion of C copy the pier buttresses, crockets beautiful campus. Certainly

The Science Building does tration Building, but it seems

As long as frugality is ma tained as the only considerati



You are high over the Potomac River just 12 miles from the White House ... and viewing 186 acres of extraordinary research activity

Of course, from this height you can't see much detail, which makes the imposing expanse of the two main buildings all the more intriguing. Perhaps you can guess their functions, but it's also what you can't see (and this is summarized in the adjoining column) that makes the David Taylor Model Basin a completely unique fundamental and applied research organization - and a place you should seriously consider for your career as a professional scientist or engineer. As the Navy's advanced facility for research into submarine, surface ship, aircraft and missile design concepts, the Model Basin can offer the young graduate certain specific opportunities hard to find anywhere else.

- 1. Reach the \$10,000 to \$12,000 level WITHIN 4 YEARS.
- 2. Take graduate courses for advance degree with Navy
- 3. Gain diversified RDT & E experience with the best equipment and facilities of their kind.
- 4. Work on research projects of recognized national im-
- 5. Attain recognized professional stature sooner, at

which point a number of futures are available. Watch for the David Taylor Model Basin interviewer

when he visits your campus, or contact Mr. S. Di Maria directly for information.

David Taylor Model Basin / U.S. Department of the Navy Washington, D.C. 20007 An Equal Opportunity Employer The Washington Circumferential Highway allows speedy access to best suburban communities in the District of Columbia, Maryland, and Northern Virginia.

2 HYDROMECHANICS LABORATORY facilities include this High-Speed Towing Basin almost 3/5 OF A MILE LONG, 50 feet wide, and 20 feet deep. This Laboratory is concerned with speed, stability, control and seakeeping qualities of floating or submerged naval designs, and with fundamental naval hydrodynamics.

(3) APPLIED MATHEMATICS LABORATORY facilities include the latest, largest computer systems, and feature the LARC, the IBM 7090, and a 1401. This is BuShips' primary computing facility, working on engineering, research logistics, and numerical methods. Work carried on here involves mathematic simulation of the life cycle of nuclear reactors; automatic calculation of ship lines; and applications of computers to management prob-

4 in this giant new Maneuvering and Seakeeping facility, both fixed and free-running models may be tested under any sea-state condition. You may also work with the High-Speed Phenomena Division at Langley Field, Virginia.

 AERODYNAMICS LABORATORY facilities include several wind tunnels-ranging from subsonic through hypersonic at Mach 10-which are used to determine and improve static stability, control and heat transfer characteristics of helicopters. VTOL's, supersonic aircraft, missiles, etc. Air flow studies also involve bomb design, bridge structures, aircraft turbulence when approaching carriers, and other government and private prob-

6 The unique STRUCTURAL MECHANICS LABORATORY facilities at Carderock are the new pressure tanks which permit the study, by means of large structural models, of the hull structures for deep diving submarines and deep sea research vehicles to reach all ocean depths. Additional Structural Mechanics Laboratory facilities are scattered throughout the 186 acres, and include a tridimensional Static-Load Frame, a Pentagonal Test Pond, Explosion Pits, and a 600,000-Pound Universal Testing Machine. With these facilities, Laboratory scientists and engineers conduct studies aimed at improving the hull structure and increasing the resistance of the Navy's ships to enemy attack. This requires development of fundamental, theoretical approaches of load and response, and development of engineering solutions based on the increased understanding. A substantial portion of the ship protection research is carried out at the Underwater Explosions Research Division of this Laboratory located at Portsmouth, Virginia.

 $m{\mathcal{U}}$ the acoustics and vibration Laboratory was just established to intensify research and development of ships of improved detection capability, and reduced vibrations and underwater sound output. Fundamental and applied research in hydrodynamics, structural acoustics, mechanical vibrations, and signal processing are supplemented by conduct of acoustic and vibration trials, and development of acoustic and vibration instru-

The OPERATIONS RESEARCH GROUP cannot be pinpointed as easily because it ranges over all the RDT&E activities at The Model Basin - hydromechanics, structural mechanics, aerodynamics, and applied mathematics. Special applications today are in the fields of naval architecture, ship silencing, ship protection, and weapons effects . . . setting realistic performance goals for ships and submarines in view of probable environ-mental factors . . . handling special externally-generated projects that tie in with DTMB capabilities . . . and making recommendations to the Technical Director as to improving research methods and orientation.

To staff these five operating Laboratories, we are seeking college graduates with BS, MS, or PhD degrees in Aerospace, Electrical, Electronic, Mechanical or Structural Engineering; in Applied Mechanics, Mathematics, Physics, and Naval Architecture.

Interviews

Representatives from The David Taylor Model Basin will hold On-**Campus Interviews**

Tues., March 9th

Please contact your College Placement Officer to arrange an appointment.

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