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WEDNESDAY, MARCH 15, 1961

BY STUDENT FEES

Vector Circular Rule; Wave Analysis Given

On March 2nd, the AIEE-IRE presented two students of the College, speaking on various papers that they wrote.

The first paper was presented by Dave Tutelman, a writer for TECH NEWS, who spoke on the graphical methods of solving vector equations. Dave showed the assembled students and teachers a vector circular rule which he had devised and built at his home. Noting that the rule was very accurate even though built at home he said that if industrial methods wereused in the construction of the rule high accuracies could be easily obtained.

The second speaker was Peter Hoch who spoke on "Using Frequency Domain Techniques to Compensate Video Amplifiers." Pete having worked on the subject for a long time and was well qualified to write on the subject. After talking of the problems inherent in trying to compensate anything by time domain techniques he showed how the compensation was easily performed in the frequency domain. The technique is used extensively in the field of compensating servomechanisms.

M.E. Expert To Speak

The ASME will present on Friday, March 17th, Dr. Kurt Hain from Braunschweig, Germany. Dr. Hain who is an expert authority on the synthesis of mechanisms will speak on Equivalent Mechnisms" in a series of three lectures. The lectures will be held in room H306 at 11 and 12, and in G209 at 2

Getting off to a slow start because of administrative problems at the beginning of the recent term the college's chapter of the American Institute of Electrical Engineers and Institute of Radio Engineers presented a speaker from Polarad Electronics Corporation of Long Island City, speaking on "Microwave equipment and analysis techniques.

He first spoke of the various microwave equipment used in communication transmission and reception stations and then spent the rest of the time talking of the various analysis techniques which are presently being applied to the theory of microwave equipment.

He showed that it is possible to reduce the field quantities present on the microwave systems to lumped parameters in the audio range. This he said simplifies the analysis of the very complex systems in microwave communications.

Tomorrow the organization will present Mr. David Chantry of the International Business Machine Corporation who will speak in Shepard 126 at 12:30 P.M. on "Digital Computer Techniques."

On March 23 the organization will have a speaker from Acoustic Research who will speak on High Fidelity and Stereophonic equipment, and on March 30 Mr. Davis of the Electrical Engineering Department will speak on law and how it applies to engineers with respect to contracts and legal negotiations that the engineering must know.

General Electric Corporation who will speak on the "Design of Modern Gas and Steam Tur bines." Mr. Sharkey is a district service specialist for General Electric.

THE MAXWELL HENRY MEMORIAL AWARD

An award in the sum of \$25 in memory of Professor Maxwell Henry is made each June to a member of the graduating class of the School of Technology for outstanding service to the College. The award is made possible by friends of Professor Henry and alumni of the School.

E-Day Ball **To Feature Faculty Singer**

This year, as every year at City College, E Day will be culminated by a dance that will be held at Finley Student Center.

The highlight of this annual occasion will be the coronation of Miss E Day. Each technical organization on campus will send one photograph to the TECH NEWS office of a prospective Miss E Day. From these pictures, all but five will be eliminated. One of the finalists will be chosen at the ball.



Anniversary Arrives 25 Years At CCNY

When Vector went on sale last Monday it presented one of the finest issues that has ever come from that magazine. It is a tribute to the editorial board of Vector, headed by Alvin Kustanowitz as editor, that they should place such a fine issue into the hands of the students here at City College.

The article entitled "The Future of Power Generation" by Alvin Kustanowitz and Steve Shepard (also a past Editor of Vector) covers the field of future power generation quite well. The various topics such

THC Hop, Exec. Tea, Art Contest

TIIC is starting to do things for the student body. In addition to the tailk by Professor Kent TIIC is sponsoring a dance on Friday, March 24th in the Student Center. Admission is free and refreshments will be served. Bring your best girl or come alooking for that "Ed" major of your dreams.

This Friday, March 17th, Tech Executive Tea will be held in Finley 438 between the hours of 4:00 and 6:00. This tea is being sponsored by TIIC and hostessed by S.W.E. The executive committees of all the member organizations are invited. The purpose of the tea is to talk over the various problems confronting the Tech organizations and to discuss the furtherance of extra-curricular activities. It is essential that all the Tech student leaders attend.

Who is the Rembrant of the School of Technology? Who is the Queen of the School of Technology? Tau Beta Pi and the "E" Day Ball committee are busy at work setting up the contests to answer these questions on the 15th of April, Better wipe the dust off the easel and get out the little black book; time's a-gettin' short.

as Thermoelectricity, with **a** comparison of metallic conductors and semiconductor materials give the student something which is not taught in the curriculum and explained a difficult topic quite simply. The other topics such as Thermionic Conversion, Metahydronamics, were adequately covered with the same bearing. The latter part of their story covering the various types of fuel cells allows the student to learn of this new and promising type of power generation.

Mike Goldman's "Biological Problems in Space Flight," was found to be perfect in content and interest. By exploring a small group of poblems in space medicine, Mike was able to go into them quite thoroughly and show the reader their problems and solutions that were to be found. His main topic was the effects of weightlessness and extreme gravity. By showing how normal daily activities such as drinking are effected in space travel he is able to stress the extreme problems which must be answered.

"Atomic Waste Disposal," written by Fred Joubert, brought up an atomic age problem, that is how to get rid of atomic wastes without endangering communities or the scientists. After showing how the strength of radio activity decayed with time he goes on to show the various ways in which the radioactive waste materials are disposed of. He cites the three main studies which must be made before a site is chosen for waste disposal.

P.M.

Tomorrow the ME's will present Mr. E. J. Sharkey of the

Chapter Cites **Creative** Contest

In the interest of promoting a spirit of liberal culture in the engineering school, CCNY chapter of TAU BETA PI, the National Engineering Honor Society, is sponsoring a "Creative Writing Contest." The contest is open to all undergraduate students with the exception of TAU BETA PI members in the School of Technology.

It is advisable that the essays should be approximately 250-1000 words in length, in prose, and of a non-technical nature.

The winner of the essay will receive a prize of \$20, a certificate and publication in Vector — if appropriate.

All entries for this contest are to be received before April 15, 1961. The essays may be deposited in the envelope provided for this purpose on the TAU BETA PI bulletin board near Tech Crossroads in Goethals Hall.

All participants will be acknowledged and the winner will be notified through the mail and the TAU BETA PI bulletin board as to the time and place of the award presentation.

The essays will be judged by the TAU BETA PI Creative Writing Committee chaired by Luigi Santalesa, winner of the Best Pledge Essay Award given by TAU BETA PI. In addition to the Creative Writing Committee members the judging panel will consist of the TAU BETA PI Executive Board members led by TAU BETA PI President Joseph Di Stefano III.

Can you match this? Miss E-Day, 1960

Entertainment will be supplied by a five piece band. A guest performer, Demos Eitzer of the Electrical Engineering Department, will appear again and by popular demand to sing about the troubles of our tech students.

E Day is on Saturday, April 15th and the dance takes place that evening in the Grand Ballroom. Tickets are four dollars. and they will be sold across from Knittle Lounge and at all technical organizations. The four dollars admission fee will also entitle each couple to free refreshments. Many of the faculty will also be present.

Graduates' Reminder

The final date for payments for Microcosm '61 will be March 24. The total cost of the book, \$9.00, must be paid by then. Failure to do so may result in forfeiture of the deposit.

THE ELIZA FORD MEMORIAL PRIZE

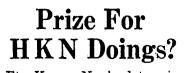
A friend of the College offers "in memory of a faithful and efficient Public School Principal in Brooklyn, Miss Eliza Ford," a prize of \$100 to be awarded annually to the most deserving student in the School of Technology, preference being given to a resident of Brooklyn.

Marvin Feldman's "Tomorrow's Plastic - Today" is written in a very technical jargon but still leads its way to be easily perused.

The article on technical writing by William L. Moore showed the fields of the technical writer as compared with that of engineering.

Going off its usual beaten track Vector profiles the faculty but not of the Tech School but the Chairman of the Physics, Mathematics, Arts and Graphic and Chemistry departments.

GALA S.G. DANCE **Sponsored by TIIC** Friday, March 24



Eta-Kappa Nu is determine to win the outstanding chapte award of the Nation. Th award is given annually June. The Electrical Engineer ing Honor Society at the Col lege has done very well in the For the pa past, having won First Prize in udent Cen 1950 and many Honorable Men ers has be tions since its founding in 1946 s of "Dis Let's take a look at some of the e Student activities that these student perform. Under the chairman am can be ship of Sol Gems we have the letter th ructors at Tutoring and Slide Rule Com is 'semeste mittee. This term a list was ob tained of students who were of

probation as of last term. Let : All Pro ters will be sent to them in and Lectu viting these students to sign upom: The H for tutoring. Last term theter Manag members of HKN offered assist dent Gove ance to all students, but the This seme group was too large to give ade huing a se quate assistance to everyone ours'' in t This committee also will hold enter to w slide rule contest for student d your st taking EE104. A few hours of We have lecturing will be given on the abling you use of the slide rule for those enjoy an students asking for it. This wi ssion and take place during the week pre formal a ceding the exam. enter durir

Another activity of the Bettimester. To Pi chapter is the Outstandin mosphere, Sophomore Award. Luigi San e and cake talesa heads this committeeing. We h whose function is to determinelp achiev the Outstanding Sophomore it lationship the E.E. class. The awarded faculty (usually an excellent reference aint both ty with t book) is presented to the win ner by the Chairman of the E.E em by the Department at the Induction If you wi Dinner. The winner of the lastis program award was Michael Morgen ge of the stern. ppe it will

hd factuly, One of the newest activitie r you tà c has received much favorabl ssible. Plo comment. It takes place o ply the s Wednesday at the Harle oups whic Lanes. If any other societ well as the would like to join us they ar mes, whet welcome. John Benton wh likes cats, Science Fiction, and scussion I bowling leads the group with bard of St a 170 overage. Bowling at HKI hn H. Fii is brand new and it's sure t We are stay around for a long time, aring from

Another new idea is the In tersociety-Faculty picnic an outing to be held on Sunday April 16. This activity was de cided upon at a meeting of th

President of Chi Epsilon, Pi Tat This prog Sigma, Eta Kappa Nu, and Taud in the i Beta Pi. nt Facul

CH NEWS EDITORIAL BOARD Editor-in-Chief PHILIP GREENBERG Managing Editor CARYL SINGER News Editor PAMELA HICKS Tech Life Editor IRA REISS Business Manager LINDA GRABER Advisory Editors MAURICE BLUESTEIN TED SEMEGRAN Editorial Policy of TECH NEWS is determined by a majority vote of the Editorial Board

Toil And **Trouble**

Workmen have toiled for practically two months on the third floor of Finley. The doors were taken off the offices of TECH NEWS, 335 Finley and O.P., 336 Finley.

One can only wonder why all the work on the Finley Center is not completed during the summer months or intersession when the majority of students are away from the College.

The office of 335 Finley, with all its possessions, has been open to the public. Last year, members of organizations

were berated when a student was found to have a non-requisitioned key on his person. Now they have left our door wide open. In fact, now, we have no door. Many items of value have been taken from the office.

We as students can only sit and wonder what will be "relocated" next? Maybe the teachers.

Want A Girl.

It is highly regrettable that the letters announcing the rules of the Miss E-Day contest have again been sent out without specifying that the contestants be City College co-eds. It is alarming to think that our engineers are in such a poor condition that they cannot see the pretty girls that visit North Campus. There are several thousand girls registered at City College; surely five finalists can be chosen out of so many possibilities. TECH NEWS shudders at the possibility of having a headline read: H.S. Senior Chosen City College E-Day Queen or Podunk Co-ed Is C.C.N.Y.'s Miss E-Day. Such a headline would be as insulting to City's females as it would be to City's males.

We call upon the school's tech organizations to sponsor City College co-eds for the Miss E-Day contest. We also call upon City College young women to make sure they are not replaced by ringers in an official function.

E-Day Ball Queen contest was established before girls came to City College. But the girls are here, and here to stay. Let's give them the recognition they so richly deserve.



"I DON'T THINK THERE'S ANY END TO THE OPPORTUNITY IN THIS BUSINESS"

Page Two



ednesday,

When Gene Segin got his B.S. in Business Administration at the University of Illinois, he was in touch with 8 prospective employers.

Gene joined Illinois Bell Telephone Company because: "The people I talked to here made it very clear that I would not be shuffled into some narrow specialized job. I thought this job offered the greatest opportunity for broad experience."

On his first assignment Gene was sent to Springfield where he conducted courses in human relations for management people.

His next move was to a traffic operations job in Rock Island. On this assignment he was in charge of all personnel who are directly responsible for handling telephone calls in this heavily populated area. Here Gene earned a reputation for sound judgment and skill in working with people. He was promoted to Traffic Supervisor.



"Our number one aim is to have in all management jobs the most vital, intelligent, positive and imaginative men we can possibly find."

> Frederick R. Kappel, President American Telephone & Telegraph Co.



Today, Gene's chief responsibilities are in man-

How does Gene feel about his job? "It's a real

agement training and development, and company-

union relations. The latter includes contract bar-

challenge. I'm in some of the most vital and in-

teresting work in the country." And about the

future-"Well there aren't any pushover jobs

around here. It's tough. But if a man has what it

takes, I don't think there's any end to the oppor-

If you're looking for a job with no ceiling on it - a job

where you're limited only by how much responsibility

you can take and how well you can handle it-then

you'll want to visit your Placement Office for literature

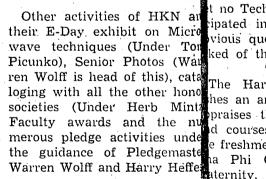
and additional information on the Bell Companies.

*

gaining and helping settle labor disputes.

tunity in this business."

BELL TELEPHONE COMPANIES



Getting back to the Outstand ack book ing Chapter Award Committee erhaps on we have a very hardworkin ganizatio group led by HKN's Vice Presea and puident John Benton. It is their gineering job to prepare a chapter reportuld be t of the year's activities which ason at C is sent to national headquarter It's a shame that thesis credi Professor isn't given for this masterpiec ical Eng

This term Beta Pi has selected ingineerir Professor Froelich as the Re cipient of their Faculty Award This award is given to a mem ber of the faculty who is no only an excellent instructor, bu also possesses that extra some thing that students look for in teacher.

By the way, a new member 0 (Continued on Page 3)

s agreed loped Na timely t herging i frica and the "Pe nt Kenn well qua bject, ha dian In

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TECH NEWS

Page Three

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who were or

y well in the First Prize in udent Center Board of Mannorable Men ers has been sponsoring a sending in 1946 es of "Discussion Hours" in ese student e Student Center. This prohe chairman am can best be described by we have the letter that went to all ine Rule Compuctors at the beginning of a list was ob is semester:

Debruary 9, 1961 st term. Let: All Professors, Instructors,

ECH LIFE

By IRA REISS

to them in and Lecturers nts to sign upom: The Finley Student Censt term theter Managers Agency of Stuoffered assist dent Government

ents, but the This semester, we are cone to give ade nuing a series of "Discussion to everyone ours" in the Finley Student so will hold enter to which we invite you for student d your students.

few hours of We have made arrangements given on th abling you and your students ule for thos enjoy an hour or two of disr it. This wil ssion and relaxation in an the week pre formal atmosphere in the enter during the course of the

y of the Betimester. To help promote this e Outstandin mosphere, we will supply cofd. Luigi Sar e and cake for each group you is committeeing. We hope in this way to to determinelp achieve a more personal Sophomore it lationship between students The awarded faculty, and also to aclent reference aint both students and facd to the win ty with the facilities offered an of the EE em by the Center.

the Induction If you wish to participate in ner of the lastis program and to take advanhael Morgen ge of the benefits which we ope it will afford both students

west activitiend factuly, it will be necessary uch favorable you to contact us as soon as ssible. Please include in your ces place o ply the size of the group or the Harler oups which you wish to bring, other societ well as the desired dates and n us they ar mes, whether day or evening. Benton what replies may be addressed to: e Fiction, and scussion Hours e group with and of Student wling at HKI

pard of Student Managers hn H. Finley Student Center .d_it's sure t We are looking forward to long time. aring from you soon. Sincerely yours,

dea is the **I**n picnic an d on Sunday tivity was **d**e meeting of th

Bernard Becker Chairman Board of Managers Finley Student Center

Epsilon, Pi Tat This program is designed to a Nu, and Tayd in the improvement of Stu-Int Faculty relations. As of

no Tech instructor has par-

For the past year the Finley ment's Technical Assistance Program. The Address is being sponsored by TIIC. Looking forward to seeing all of you there on April 20th.

* * * **USEFUL** INFORMATION: The price of lab folders is five

cents at the 'non-profit' Gity College Bookstore, four cents at the profit making Beaver Bookshop. A printer on 125th street gave me the following estimate for the production of the folders: \$30 for the first thousand and \$25 for each additional thousand. Someone please tell me why our bookstore must mark up the folders nearly 100% and charge more than Beaver even though it has no overhead.

Attention graduating seniors,

add the following to your list of possible employers:

> The Peace Corps International Cooperation Administration Washington, D.C.

Pay - none. Working conditions — miserable. Draft exemption — none. Location any underdeveloped nation, Hazards — many. REWARDS — SPIRITUALLY MULTITUDIN-OUS.

P.S. Since I wrote this column I have been informed that Professor Pistrang and two of his classes are going to participate in the "Discussion Hours" program. Thank you Professor Pistrang for breaking the ice, I hope that many of your colleagues will follow.

HKN

(Continued from Page 2) the E.E. faculty is a brother of HKN and TBPi. I'm referring to Ted Bially, a great student and a fine person.

welcome the new group of eligibles who will carry on the job of making the Beta Pi chapter of HKN a very worthwhile organization to belong to.

In closing we would like to





MANAGEMENT

TRAINING

SEE YOUR PLACEMENT OFFICER FOR APPOINTMENT



of HKN an ibit on Micro (Under Ton Photos (Wau ne other hono

ipated in this program. The vious question must now be ked of the faculty. • • • •

of this), cata The Harvard Crimson pub-Herb Mintz hes an annual booklet which herb Mintz praises the faculty members and the number of clivities under the freshmen. This semester Al-Pledgemaster a Phi Omega, the service d Harry Heffer aternity, published a little hes an annual booklet which

the Outstand ack book of the student body. ard Committee rhaps one of the engineering y hardworkin ganizations will project this N's Vice Presea and publish a guide to the on. It is their gineering faculty. I bet it chapter reportfuld be the best seller of the ctivities which ason at CCNY.

l headquarter

new member 0 m Page 3)

* * t thesis credi Professor Kent of the Mechis masterpieccical Engineering Department s agreed to deliver a talk on Pi has selectering in the Underdech as the Reployed Nations." This is a rath-Faculty Award timely topic considering the ven to a meninerging nations of Asia and

ty who is norrica and the recent institution instructor, but the "Peace Corps" by Presiat extra some nt Kennedy. Professor Kent ts look for in well qualified to talk on the bject, having taught at the dian Institute of Science, angalore, Under our govern-

You know what you invest in advanced ROTC

... two years of classroom time and outside study.

But just see how handsomely your investment pays off.

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up the civilian ladder, advanced ROTC will still be paying off. Success in the executive areas of business and industry comes earlier and more substantially to the man who can lead. Few are born leaders; but leadership can be learned. And advanced ROTC is a great place to learn it.

Talk with the Professor of Military Science at your school. Learn more about advanced ROTC. Ask particularly about the ROTC course in Leadership, with its practical experience in command responsibilities.

One of the best investments you'll ever make...

Page Four

Presenting Presidents Chem E's Review By HERB JAVER

Last Term During the past term,

AIChemE, according to outgoing president Lloyd Abrams, has attempted to give chemical engineering students information about the field they will someday enter. This was achieved by having representatives (who were themselves chemical engineers) from General Electric, Esso, and other firms speak to the students. AIChemE also held a slide rule class which taught ChemE students how to use the slide rule.

On the social level, AIChemE had its semi-annual smoker in which the students perform 'take-off" skits on the faculty. The faculty, of course, was given ample time to retaliate.

Next term. AIChemE will continue its present program. In the near future, the members hope to give computer classes which will enable those in the class to work the LGP 30 computer.

This is the second of a series of articles portraiting the presidents of the various technology societies. The second of the tech school leaders is Ricard Felder who is now the president of the American Institute of Chemical Engineers student chapter on campus.

"I believe that this organization should not concentrate all its time to the engineering profession, but it should be diversified in its lectures and activities." This view was expressed by Richard Felder, the president of the College chapter of the American Institute of Chemical Engineers.

Mr. Felder, who will graduate with the class of '62, is the top ChE and is ranked third in his total engineering class. Richard, before coming to New York, lived in Buffalo and later in Florida where he attended high school. It is his opinion that the secondary schools in Florida are twenty years behind our city school system in the level of teaching. One major objection to the Florida system was the lack of special schools. In the New York City system there are schools such as Broklyn Technical and Bronx Science High Schools.

Most of Mr. Felder's interests outside of City College lie in the game of chess, classical music and bowling. He is a member of a chess club where he often participates.

When he was asked what courses should be added or deducted from the present program for engineering students, he replied, without hesitation. that more courses in liberal arts should be added and Drafting 108 should be eliminated for ChE and EE students. Then he stated that if his idea was put into effect each student would be attending this institution for a period of seven years instead of $4\frac{1}{2}$ to 5 years.

Besides being active in AIChE, Richard also belongs to Tau Beta Pi and Sigma Chi Epsilon. Upon graduation he wants to attend graduate school on a full time basis in order to

acquire his Masters Degree, and personal and there is a defi afterwards he hopes to work in the field of research and development. His future plan for AIChE is to broaden its format. Referring to City College,

Richard believes that it is im-

CAMPUS

INTERVIEWS

March 28

lack of college spirits, which his opinion is due primarily the de-emphasis on sports, he said that City College is of the best engineering sch in the country.

We have many excellent, well-paying career opportu. nities for men with Master, Bachelor or Doctor's de. Brees in electrical engineer. ing, physics, mathematics, and mechanical engineering for research and design & development work in Elec. tronics, Data Processing, Optics, Magnetics, Computation and Electro Mechani-Cal devices.

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ENGINEERS AND SCIENTISTS NAA's On-Campus Interviews

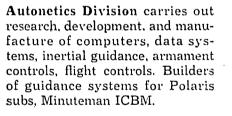
The NAA industrial family has a career for you

MARCH 17

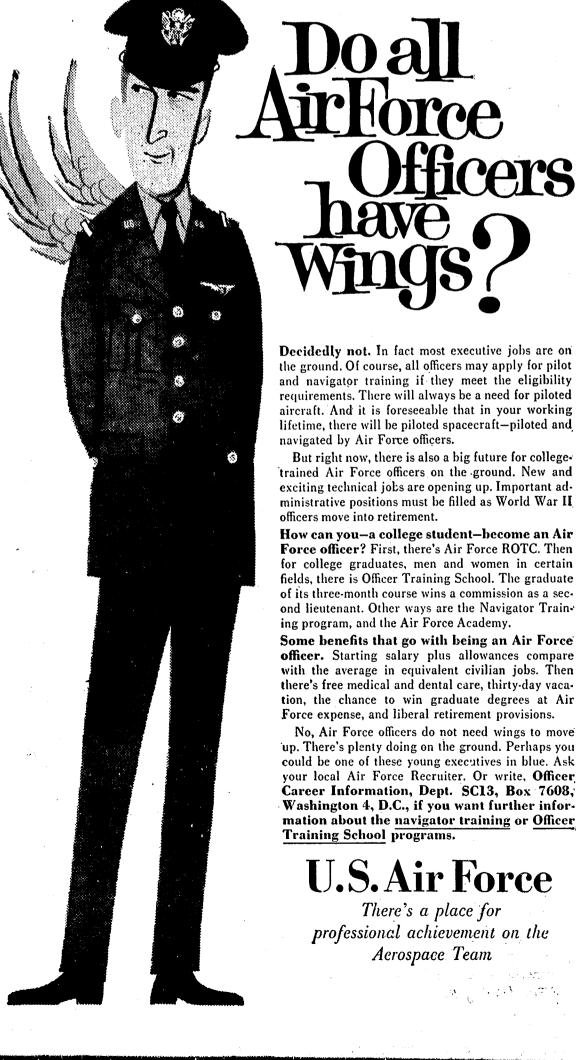
Nuclear power at the Atomics International Division (Canoga Park, Calif.)

Electronics & electromechanics at the **Autonetics Division** (Downey, Calif.)

🖄 Naval aircraft & missiles at the **Columbus Division** **Atomics International Division** is a leader, both here and abroad, in the development of nuclear reactors for power, research, and mobile systems.



Columbus Division, a complete center of systems capability, produces Navy's Mach 2A3J Vigilante, is developing new Army target missile, and building reflector for world's largest radio/telescope.



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Design & development of manned weapon systems at the Los Angeles Division (tos Angeles, Calif.)	Los Angeles Division is the home of next-generation manned weapon system—the Mach 3 B-70 Valkyrie —and America's first manned space vehicle, the X-15.
Propulsion systems and concepts at the Rocketdyne Division (Canoga Park, Calif.) (WcGregor, Texas) (Neosho, Mo.)	Rocketdyne Division , Free World's leading producer of large rocket engines, supplied main-stage boost- ers for 29 out of 32 successful U.S. satellites and space probes.
N Space exploration & missiles at the Space & Information Systems Division	SIS Division produces the GAM- 77 Hound Dog missile and concen- trates on manned and unmanned space exploration vehicles, anti- ICBM projects, and management of information processing systems.

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Some benefits that go with being an Air Force officer. Starting salary plus allowances compare with the average in equivalent civilian jobs. Then there's free medical and dental care, thirty-day vacation, the chance to win graduate degrees at Air Force expense, and liberal retirement provisions.

No, Air Force officers do not need wings to move up. There's plenty doing on the ground. Perhaps you could be one of these young executives in blue. Ask your local Air Force Recruiter. Or write, Officer Career Information, Dept. SC13, Box 7608, Washington 4, D.C., if you want further information about the navigator training or Officer

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professional achievement on the

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