



Job Situation Good; Chem. E's In Demand

By PEGGY WINSTON

There are more job openings for engineering and science students than there are graduates to fill them, reports Mr. Larry Cooley, Assistant Placement Director.

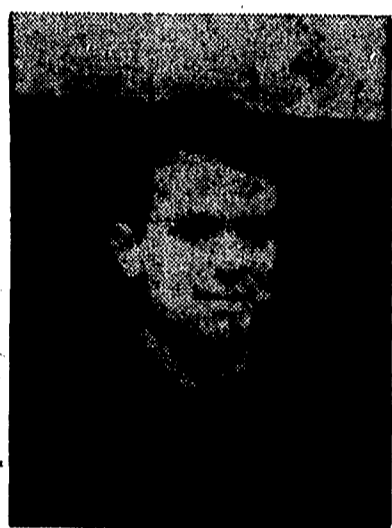
Employers have continued sending out requests for engineers, even after the regular recruiting periods and right on through the summer.

Although there are more openings than applicants in every field, especial interest is being shown in Chemical Engineers. The reason for this is a slow levelling off of the demand for Electrical Engineers. About five years ago, the expanding need for E.E.s was recognized. At that time, many students went into that field of study, and now they are graduating and accepting some of the many posts offered them. Chemical Engineering was not ignored, but Electrical Engineering was definitely favored. As a result, employers find it more difficult to find Chem.Es to fill their open positions.

In addition to the great demand for Chem.Es, Mr. Cooley noted the openings for students proficient in programming skills. Many of the available jobs involve work with data processing and computers. "Students who are interested," advised Mr. Cooley, "should gain as much knowledge of these techniques as possible, whether it be in the form of work experience or even courses taken without credit. The greater and more varied your skills are, the better will be your selection when looking for a job."

Widen Your Horizons

Several students come in to the Placement Office with preconceived notions that severely limit the range of jobs open to them. Engineering students must realize



LARRY COOLEY

that the possibilities for employment within the New York City area are relatively few. By insisting on positions near home, and refusing all others, they automatically decline the myriad offers in the other 49 states. Employers complain that they more often encounter this reticence about travel at City College than elsewhere.

Another way that some scientists and engineers limit themselves is by demanding posts in development and research. "While these may seem more attractive to graduates," Mr. Cooley said, "there are fewer job openings for them, than for the practical applications of the sciences and for sales." Sales is a job possibility of which many students seem to be ignorant. Yet, approximately one fourth of the

(Continued on Page 3)

Varied Program Planned By Tech Council

Tech Council will hold its first meeting of the new term on Thursday, September 23, at 6:00 P.M. in F. 121. New president, Steve Harkavy, has unfolded an ambitious program for the new term.

First of all, there are several hold-over activities from last term. One is to work for the establishment of a City College Camp. In 1949, money was donated to the school for such a camp, but nothing much has been done about it since. The camp could be used by various student groups on campus for many different and varied activities. For example, the civil engineering students could survey on it, while Houseplan could hold its leadership-training programs there.

Among other programs left over from last term, is a drive to increase the fee allocations to the member groups of Tech Council. Even though engineers make up one-third of the student body,

their clubs and organizations get less than a third of the money allocated to student groups.

New on the agenda is the possible initiation of a nationally oriented drive for free higher education. When pressed on this subject, President Harkavy stated that he would not have any further comments about it until next week.

Also planned is the initiation of a Speaker's Forum. At these forums, many famous and inspiring people would talk about general engineering and science topics of interest to all.

Among some of the less dramatic events planned are the proposed production of a sound film to be used in orienting students and faculty to the School of Engineering and Architecture and the preparation for a proposed Engineering and Architecture Day to be held during the Spring '66 term.

Solomon

Prof. Clark Resigns Post

The Social Dynamics Research Laboratory will lose its Director. Professor Kenneth Clark of the Psychology Department recently tendered his resignation which will take effect in December. Professor Clark who was instrumental in the creation of the laboratory is also widely known for his many years of fruitful work in the Negro's struggle for civil rights. Among the many credits of Professor Clark are his prominent role in the 1954 Supreme Court case, Brown vs. the Board of Education of Topeka Kansas and the formation of Harlem Youth Opportunities Unlimited with which he was closely associated until recently.

Professor Clark is also the author of two books — *Prejudice and Your Child* and *Dark Ghetto* — which are the products of numerous years of research and profound insights into the problems confronting the Negro.

We are all grateful to Professor Clark and to men like him who spend their lives seeking answers to the problems confronting man in his relations and wish him a good vacation.

TECH NEWS



Fly from reality, leave cares behind, discover a new world—TECH NEWS. In our serene office, 335 Finley, you will discover the secrets of unendurable pleasure indefinitely prolonged. You will become heir to the mystic knowledge passed on from editor to editor for centuries. You will participate in strange rites. (pictured above) Come to TECH NEWS, Thursday at 12, or any other time. We await you.

Seniors

MICROCOSM

Microcosm, the Senior Class Yearbook, is again making picture appointments for the new term. All June and August Graduates are urged to come to F. 207 as soon as possible to make appointments.

Campus and Elections, Issues Before Council

By RICHARD ROSENFELD

A motion to have *Campus* printed at City Wide Printers, tabled last week after a long and heated argument, comes up for a second round of debate tonight.

The controversy centers about a lower bid submitted by City Wide after *Campus* had already signed a contract with CUNY Press, a new shop opened by former employees of City Wide. *Campus* has been printed at City Wide for the past four years, but made the switch when the new shop was opened. City Wide did not submit its bid of \$500 less than the CUNY bid until after a contract had already been signed.

Some members of Council feel that *Campus* should return to City Wide, as a law suit has been threatened. Others think that the editors of *Campus* were within their rights in making the switch, and it is they who should determine who prints their paper.

The situation has been further complicated by allegations of corruption in the handling of the sealed bids, though no charges have yet been leveled at anyone.

Election Date To Be Set

A second major issue before Council is whether or not to hold Student Government elections in mid-October as scheduled. Again the Council is split into two opposing factions.

Some members of Council feel that the elections should be postponed until after Election Day in November. Their reasoning is that until then S.G. should devote its full efforts towards the anti-tuition campaign. The other faction thinks that the elections should be held on schedule.

There is also disagreement as to who should administer the



CARL WEITZMAN

elections when they are held. S.G. President Carl Weitzman has voiced displeasure with the job done by Alpha Phi Omega and Gamma Sigma Sigma, the service fraternity and sorority respectively, who have served as the elections agency in recent years. Possible replacements are Blue Key, the senior honorary service society, or Sigma Alpha, the military honor society.

Tuition Campaign Planned

Student Government is making plans to run a phone campaign in the fight to maintain free tuition. In addition to the canvassing of districts on Saturdays, residents will be telephoned and urged to vote for the free tuition candidates in their area. The districts of Mr. Curran and Mr. Greene have been singled out for special attention.

On Campus Interview Program

GRADUATING SENIORS OF 1966

In order to participate in the Placement Program for Graduating Seniors you must attend the appropriate EMPLOYMENT ORIENTATION.

FOR JANUARY 1966 GRADUATES

Engineering & Science	Thursday, September 23, 1965 Townsend Harris Auditorium—12 Noon
Evening Session (All Degrees)	Wednesday, September 29, 1965 Finley 217—6:00 P.M.
Liberal Arts	Thursday, September 30, 1965 Finley 217—12 Noon

FOR JUNE AND AUGUST GRADUATES 1966

Engineering & Science	Thursday, December 9, 1965 Townsend Harris Auditorium—12 Noon
Evening Session (All Degrees)	Tuesday, December 14, 1965 Finley 217—6:00 P.M.
Liberal Arts	Thursday, December 16, 1965 Finley 217—12 Noon

It is suggested that seniors who intend to continue with full-time studies or who expect to enter military service upon graduation will find the experience helpful in their career planning. Please be assured that companies visiting campus are quite willing to talk with those seniors who are not necessarily seeking immediate employment.

TECH NEWS

Office — 335 Finley

Phone: 234-6500

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Editorial Policy of TECH NEWS is determined by a majority vote of the Editorial Board.

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216 W. 18 Street

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Club Notes

ASTRONOMICAL SOCIETY

Elections will be held. All members must attend. Room 16 Shepard Hall, Thursday at 12:15.

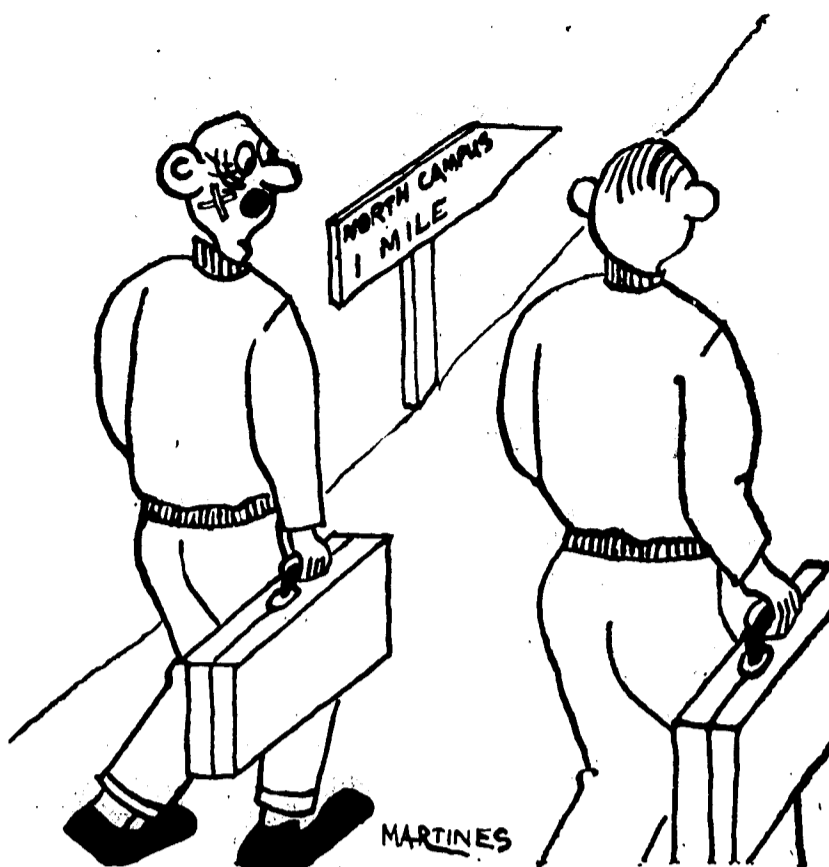
HILLEL

Hillel will hold an open house on Thursday, September 23, at 12:15. Free folk concert by Murray Phillips and free refreshments. All freshman and upperclassmen invited. Hillel house at 475 W. 140th Street, opposite Goethals Hall.

ENGINEERS

A list of speakers available to the Engineering School during the coming Fall term is now posted on the Mechanical Engineering Bulletin Board located in the basement of Steinman Hall. Please indicate before the end of this week, your first three choices, in order of preference, for speakers to appear at your club meetings.

Egghead Society



"I don't understand what went wrong. I just told her that I'm an engineer and that I'm good with figures."

Public Relations

The Student Government publication, **Spectrum**, is an unfortunate waste of money and effort. Although there exists a discrepancy about the cost of the first issue, it is clear that the publication was poorly done no matter what the cost.

Despite this, plans to expand **Spectrum** to a full size newspaper costing about \$225 per issue are being discussed. It is entirely unnecessary to have a sixth newspaper on campus. Student Government allocates nearly \$15,000 a year to support the already existing publications, which do a good job of covering all aspects of campus life.

Spectrum would seek to publicize the activities of clubs on campus, a function which would only duplicate the work of the other papers. Almost all events of significance involving campus organizations are reported. To report on and promote the minor happenings, which involve few students, is hardly worth the cost.

Student Government would do better to channel the efforts of those involved with **Spectrum** into an effective public relations agency. Such a group would serve as a liaison between S.G. and the City College newspapers, issuing press releases, scheduling news conferences with S.G. officers when necessary, and generally providing S.G. with increased publicity through the already established organs of communication.

Almost all organizations dealing with the public have public relations staffs, and Student Government should be no different. An improved image would mean improved effectiveness. Further, a public relations agency would be far less costly and more effective than a publication such as **Spectrum**.

Responsibility

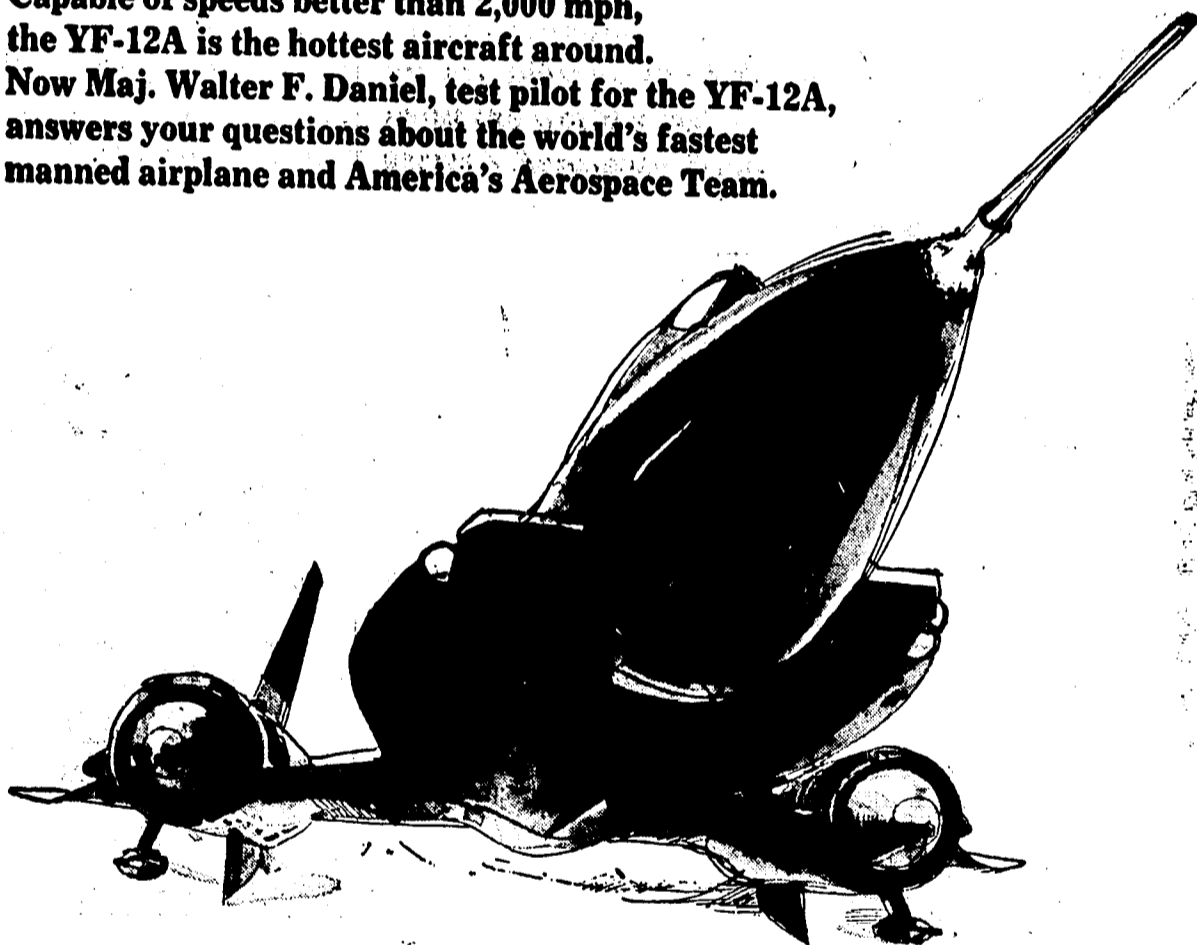
City College is an urban school. Unlike many rural universities and colleges which exist as communities within communities, City College merges with its community, that is, it forms no cohesive unit set apart from the community.

City College differs from many rural colleges in that it does not sustain the life of its community. Superficially, it is clear, that one of the responsibilities of many rural colleges is simply to function academically. What are the responsibilities of City College?

Our primary responsibility as an urban school is to become a working unit of the community — to work with the existing social agencies, to aid the elementary and secondary schools in what ever way we can and to institute programs of self-help and rehabilitation. Although efforts have been made in this direction, they have not been sufficient and will remain insufficient until the entire student body awakens to the needs of the community and reacts through student participation.

The conditions of a community — housing, sanitation, etc. — reflect, to a degree, the values of the college and its students. Harlem is a socially and economically disadvantaged area; are our values such that we can commute to school daily and not once be moved to help.

Capable of speeds better than 2,000 mph, the YF-12A is the hottest aircraft around. Now Maj. Walter F. Daniel, test pilot for the YF-12A, answers your questions about the world's fastest manned airplane and America's Aerospace Team.



(Maj. Daniel, a test pilot since 1954, is a member of the Society of Experimental Test Pilots. He received a B.S. degree in Aeronautical Engineering from the University of Oklahoma. In February 1962, he set world class time-to-climb records in a T-38 jet trainer.)

Is the YF-12A the world's fastest manned aircraft?

It certainly is. On May 1 of this year the YF-12A (formerly known as the A-11) reclaimed the world absolute speed record from the USSR. It was clocked at 2,062 mph over Edwards Air Force Base.

How big is the YF-12A?

The exact dimensions of the YF-12A have not been released yet. But it's approximately 100 feet long, with about a 50-foot wingspan. That's half again as big as our present interceptors!

Is the Air Force training many men as pilots these days?

Yes, very definitely. In spite of all you hear about unmanned vehicles, the human pilot is still very much in the picture. As a matter of fact, the Air Force pilot quota is on the increase.

What other kinds of jobs does the Air Force offer?

Since it's one of the world's foremost technological organizations, the Air Force has plenty of openings for scientists and engineers. There are also many challenging and varied administrative-managerial positions.

What do I have to do to become an Air Force officer?

Air Force ROTC is the best way to get started as an

Air Force officer. The new two-year Air Force ROTC program makes this method available to men who have already completed a year or two of their college education. For college graduates, if you did not take advantage of ROTC, you can still get started through Air Force Officer Training School (OTS), a three-month course open to both men and women.

Can I keep up my studies while I'm in the Air Force?

The Air Force encourages its men and women to continue their educations. For instance, you may qualify to study for a graduate degree during off-duty hours, with the Air Force paying a substantial part of the tuition.

What kind of future do I have in the Air Force?

A bright one. As we move further into the Aerospace Age, the Air Force is going to grow even more important. And you can grow with it!

United States Air Force.

Hq USAF,
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Jobs . . .

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enings for engineers are for ding positions.

As might be expected, appli-nts who have already received aster or Doctorate degree have distinct edge over those with ccalaureates. Since only a all percentage of engineering duates do go straight into her students, the demand for re highly trained men is, and l remain, overwhelming.

Job Application

The Placement Office has set up ecial orientation sessions to e engineering students all the ormation they will need in (king jobs. Attendance is man-ory for all graduating seniors d students receiving Masters (Doctorates) who will want to ke use of the Placement Of- e's facilities. Among other ings, a complete listing of par- ticipating companies will be given each applicant. The list in- udes a short description of the mpany itself, its locations, and e positions it has available. At- tendance at these meetings will ve the applicant much time and ort when he starts looking for bs. A complete schedule of the rientation sessions is printed in ECH NEWS.

Blood Bank Drive Begins

Once again students are being alled upon to contribute in the ampaign to replenish the City ollege Blood Bank.

The Bank was established to erve students at City College, heir immediate families, recent lumni, and others connected ith City College. In all, some 70 b 80 thousand people may call n the Blood Bank for help, in me of emergency.

There is no charge for blood eceived from the Bank. Most ospitals charge upwards of \$50 er pint or ask that each pint they ive be replaced by two. The igh cost of blood and the large umber of people who depend on he Bank make it eminently clear hat the City College Blood Bank eserve of 360 pints is insufficient.

The registration of donors will ake place during the week of October 11 from 10 to 3. The regis- ration booths will be in Finley Center, Cohen Library and opo- site Knittle Lounge in Shepard Hall.

Blood will be collected by the Red Cross, which acts as the col- lecting agency for the school. Blood will be collected on North Campus in Knittle Lounge on Wednesday, November 3, and on South Campus on November 4.

The blood is urgently needed. The giving of it is harmless and imple.

TECH NEWS

In order that we may maintain our position as leading newspaper n the School of Engineering and Architecture, TECH NEWS finds t necessary to have people work- ing on its staff. If you are will- ing to work a few hours each week towards the production of his newspaper, and particularly f you are an engineering upper- classman, we invite you come up o our office (335 Finley) or leave your name and phone number in the TECH NEWS mailbox in 152 Finley.

STARTING SALARIES IN PRIVATE EMPLOYMENT					TABLE IV CIVIL SERVICE ACCEPTANCES				
Degree	No.	Average Monthly Salary, 1965	Average Monthly Salary, 1964	Total Range 1965	Degree	Total Number	Federal	State	City
Chemical E	34	636	600	525-675	Chemical E	2	1	0	1
Civil E	29	567	598	525-610	Civil E	11	0	3	7
Electrical E	159	633	612	531-750	Electrical E	5	5	0	0
Mechanical E	59	629	604	580-800	Mechanical E	6	5	0	1
Liberal Arts	40	462	401	301-774	Liberal Arts	19	1	3	15
Chemistry	8	575	495	442-617	Chemistry	0	0	0	0
Physics	9	602	507	559-640	Physics	0	0	0	0
Mathematics	10	490	485	301-585	Mathematics	1	0	1	0
Biology	6	454	411	387-500	Biology	1	0	0	1
					TOTALS	45	12	7	25

TABLE III STARTING SALARIES FOR ENGINEERING STUDENTS BY SCHOLASTIC STANDING IN PRIVATE INDUSTRY					Locations									
Degree	No.	Top Third Av. Salary	Middle Third No. Av. Salary	Lower Third No. Av. Salary	ChE	CE	EE	ME	Lib Arts	Chem	Phys	Math	Bio	Totals
Chemical E	12	645	11 638	10 631	19	24	65	33	56	6	7	11	7	228
Civil E	19	597	5 577	15 561	10	2	49	15	2	0	0	0	0	78
Electrical E	47	654	49 626	44 622	0	0	16	4	1	2	2	1	0	26
Mechanical E	23	628	18 612	14 624	3	0	22	14	0	0	0	0	0	39
					1	0	1	2	0	0	0	0	0	4
					6	0	1	3	0	0	0	0	0	10
					0	3	6	1	1	0	0	0	0	11
					0	0	0	0	1	0	0	0	0	1

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Panel Sizes	Satin Black Finish	Gleaming Brass Finish
20" Panel	\$1.99 ea.	\$2.99 ea.
24" Panel	2.39 ea.	3.39 ea.
30" Panel	2.89 ea.	3.89 ea.
Corner Panel (24" x 24")	3.99 ea.	5.99 ea.
Wood Bases	.19 ea.	

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Vertical Bookcase
Consists of 7-20" Panels,
4-30" Panels, 4 Wood
Bases. Assembled Size
60" H x 22" L.

Television and
Phone Unit/Bookcase
Consists of 6-30"
Panels, 6-24" Panels,
6-20" Panels, 8 Bases.
Assembled Size
30"H x 72"L.

Horizontal Bookcase
Consists of 11-30" Panels,
6 Wood Bases. Assembled
Size 30" H x 63" L.

Corner Step-down Wall
Case or Room Divider
Consists of 4-20" Panels,
5-24" Panels, 2-30"
Panels, 6 Corner Panels,
7 Wood Bases. Assembled
Size 50" H x 50" L
x 25" L.

Room Divider/Bookcase
Consists of 4-20" Panels,
8-24" Panels, 7-30"
Panels, 8 Wood Bases.
Assembled Size
40" H x 82" L.

Book Review

A hitherto unreleased report on a conference on disarmament appears for the first time in a book published by McGraw-Hill: "Where Science and Politics Meet," by Jerome B. Wiesner, distinguished scientist, Dean of the School of Science at M.I.T., and formerly President Kennedy's Special Advisor on Science and Technology.

The report — prepared by Dr. Wiesner in 1960 for the Eisenhower administration — is concerned with the problems encountered before and during the 1958 Geneva Conference on Means to Reduce the Danger of Surprise Attack. It reveals that Dr. Wiesner and the other American participants were greatly troubled by the inadequate preparation that had preceded their departures to the 1958 conference and by the lack of any coherent U.S. Government position on the issue that were to be considered there.

The experience of the U.S. delegation, according to Dr. Wiesner, demonstrated that in 1958 our government had "an inadequate understanding of many of the political, military, and technical considerations involved in reducing the danger of surprise attack and of their complicated interrelationship. . . . We had so little guidance regarding our national military and political objectives that the value of many possible measures could not be properly assessed."

The U.S. delegation, Dr. Wiesner explains, was specifically restricted in its discussion of preventing surprise attack to those measures which did not involve any limitations of weapons; i.e. restrictions in their location, numbers, characteristics, etc. "Our delegation was required," he writes in the report, "to support the position that useful measures to reduce the danger of surprise attack could be devised without any limitations on military weapons. Many members of the U.S. group disagreed with this view—as had an earlier inter-agency working group — and were in fact of the opinion that observation and reporting system, under some conditions, would favor an aggressor and consequently might increase rather than decrease the danger of surprise attack."

The Soviet bloc also came to the conference with extremely rigid instructions, Dr. Wiesner reveals: "At no time in the formal meetings did they show a willingness to search for mutually acceptable areas of discussion. Nor did they give any evidence of being better prepared than we."

Yet, far from discouraged, Dr. Wiesner and his fellow American participants were spurred by the experience to attempt to insure that the United States would be better prepared for future disarmament negotiations. They laid the ground-work for ensuing disarmament efforts by undertaking short-range steps and making long-range recommendations. They created a Disarmament Panel of the President's Science Advisory Committee to conduct technical studies on such problems as inspection system and strategic force levels. At the same time, they worked for the creation of a full-time government agency that would provide a professional approach to the understanding of disarmament and as-

sure continuity to the work. Our present Arms Control and Disarmament Agency was the eventual result of this effort.

Dr. Wiesner further discusses the problems, possibilities, and challenges of nuclear and gradual global disarmament in his book in several penetrating essays devoted to the relationship of military technology, strategy and arms control; comprehensive arms-limitation system; inspection for disarmament; and national security and the Nuclear Test Ban. Summing up his views on the subject, he writes:

"Almost two hundred billion

dollars a year are wasted on arms by the nations of the world while the economic plight of much of the world goes from bad to worse. Unless we evoke at the same time heroic measures, this deterioration is bound to continue. Only by agreeing to effective disarmament measures and employing the resources thus made available for constructive purposes can we have any hope of ultimate survival."

In "Where Science and Politics Meet," Dr. Wiesner takes up the important and special role of science in contemporary society and the place and function of the sci-

tist both in general society and within the U.S. government. He feels strongly that as a country we must take steps to make much fuller use of our available technical power, pointing out that "the harder we work our technologically-based economy, the stronger it grows. . . . Equally important is the need to provide sufficient support for science and technology to insure a continued improvement in productivity." Much of this support, according to the author, must come from the government, especially support of research in challenging areas like oceanography, hydrology, and at-

mospheric sciences.

Elsewhere in the book, Wiesner discusses the problems and opportunities confronting U.S. today in respect to education, and specifically education in scientific disciplines, now and the future; the role of scientists and scientific administrators as advisors and formulators of governmental policy; the opportunities for science to aid underdeveloped nations; and the opportunities for science to correct inequities in our own society. To learn more about our environment on this planet and in other worlds.

Here's the shortest line between graduation and a "go-places" career.

Your name: _____

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- (3) Manufacturing, (4) Finance and Administration,
- (5) Marketing, (6) Field Engineering, (7) Systems Engineering, (8) Programming.

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