Field Service sends Olson, expert on Japanese culture

by Ford Halzman

"A new culture is coming into being; western influence has displaced a great deal of the Japanese post, but it has not yet been replaced by America."

The foregoing comment was delivered, with a broad Harvard smile, by Dr. DuBridge and Mrs. everything large percentage of auspices of the Ford Foundation. Dr. Olson, whose knowledge of Japan covers everything from the various types of geishas to explaining the importance of sex work acting under the auspices of the American University Field Staff, was planning to make records for an eighteen months residence in Japan, where he studied the religion, history, language, and economic conditions existing.

U. S. policies

Dr. Olson went on to say that the intellectuals are very much disappointed with United States policies. We started out to demobilize, but, unfortunately, we have turned our attention to rearmament and fear of Communism. This is not to say that Communism is not a real threat, but, on the contrary. In Dr. Olson’s opinion, the Communist movement in Japan is not so strong now as it was five years ago. However, there is a strong defense based on the fear of Western influence spread on the United States. According to Dr. Olson, Japan will not become anti-American, but, rather, pro-Japanese.

Japanese youth

"Younger people are less responsive to rearmament, and their attitude toward religion is changing—there is a good chance that Buddhism will increase. However, I am not sure that Dr. Olson continued by saying that the young Japanese are more interested in getting a job than they are in the affairs of the empire. The best jobs can be found with the government or with business, particularly business. All in all, Dr. Olson said, there is a need for American influence to come to Japan in peace and quiet when Dr. Olson left.

Women will have an opportunity to hear Dr. Olson discuss “Japanese-American relations” next Monday at the Y Lunch Club.

In following weeks, three more representatives of AIPES will speak at Caltech. Including Edwin S. Munger, who will discuss Africa (south of the Sahara), Albert H. Sanders, Professor of History and Philosophy, and Charles F. Gallagher, Northwest Africa.

Caltech students will discuss Caltech philosophy at Y camp

Faculty, students will discuss Caltech philosophy at Y camp

Operating under the assumption that in a serious college or university the teachers and students should discuss together the school’s own practice of that philosophy of education, Caltech will arrange a camp where students and faculty can attempt to accomplish this purpose.

Camp Head, Kramer, just north of the scorched Malibu section, will supply the informal and relaxed atmosphere for stimulating and swapping ideas. The 20 faculty members and 45 students who make up the camp office will visit universities in ten for three two-hour discussions, beginning Friday night January 12. On Saturday the discussion will be punctuated with tennis, and volleyball.

Typical questions

Typical questions to be posed before the group are: "Should a scientist feel any social obligations in choosing his field of research?" "Can we say anything specific about our curriculum?" and "Do students lose an abnormally large percentage of their enthusiasm here."

Pom-pom in hand to attend the Camp Kramer conference should make a $5.00 reservation deposit with the Caltech office before January 14. Total cost for the weekend excursion will be $9.50. For more complete information see Donna Newcomb in the Y office.

Les Miserables’ first of Y movies

The Y Film Series for this term will begin this Sunday at 7:30 with the showing of Les Misérables. Series tickets are on sale for $1.25; single tickets, 55. There are four showings in the series.

Les Miserables is the story of the inequities of the social system of 19th Century France. This year’s series is


Death of a Salesman will be shown on January 27 with no admission charge because it did not arrive in time for a scheduled showing last fall.

Other films in the series are Mr. Belvedere Goes to College, Symphonie Pastorale and The Medium.

Caltech goes to Model UN as “Cubans”

Caltech students will vote Cuba into the UN this year as Cuba. As Cubans, Caltech students will argue the Cuban point of view and in general will try to further their country’s interests. The Model UN is a conference of Western college students that is patterned after the United Nations.

DuBridge embarking on trip for Ford group

Caltech President Lee A. DuBridge will leave Monday with Mrs. DuBridge for a trip around the world. Under the auspices of the Ford Foundation, they will visit universities, engineering schools and scientific research centers.

The purpose of the trip is to exchange ideas with scientists, engineers and educators from universities, engineering schools and scientific research centers from countries that are interested or are supporting the Foundation.

Itinerary

After brief stops in Honolulu and Manila, Dr. and Mrs. DuBridge will spend about ten days in Indonesia. Then ten days in Burma, slightly over three weeks in India, and two weeks in West Pakistan. The visits to the Middle East countries will be determined by conditions which exist there at the time of the trip. The purpose of the trip is to seek the cooperation of the countries which are interested or are supporting the Foundation.

Dr. DuBridge embarks on trip for Ford group

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The delegation will be selected by the ASCIT Board of Directors at their meeting Monday evening, January 14, at 7:30 in the Board Room. Those interested in becoming delegates should attend the Board meeting and explain why they would like to go.

Students will face increased housing rates in September

Increased costs cause student houses to raise room and board for next year

The rise in cost per year for students living in the student houses will be approximately $91, if occupying a single or large double, or $78 if occupying a small double.

The new rates will be figured on a yearly basis, rather than on a daily basis as in the past. The increase will be broken down as follows: Board rates will increase from $458 to $538 per year, an increase of $80. Room rates for singles and large doubles will be changed from $252 to $316 per year, an increase of $64. Room rates for small doubles will be increased from $168 to $194 per year, an increase of $26.

Independent enterprise

For the same period, however, there have been several factors which have increased the income for the operation of the houses. One is the increased demand for rooms in the houses. Another factor is the increased number of conventions held at Caltech. The delegates often stay (Continued on page 3).

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Dear Editor:

As it stands today the possibility of military service faces most of the undergraduates here at Caltech. Most of the students have undoubtedly already considered what their particular piece of self is going to be. The purpose of this letter is to offer one more possibility for consideration.

I am now a graduated student in chemistry here at Caltech. Prior to coming here I served for 3 years as an office with the U.S. Navy. Perhaps there are some of the undergraduates here at Caltech that would be interested in obtaining a commission as an Ensign in the U.S. Naval Reserve upon graduation. If so, a recent change in the method of selecting candidates for the Reserve Officer Category (ROC) program will be of interest to those students. It is now possible for any freshman, sophomore, or junior to apply for the ROC program prior to committing himself to the Naval Reserve. If selected, he will be expected to enlist in the Naval Reserve and make two summer cruises. Upon graduation he will receive a commission in the U.S. Naval Reserve and be obligated to serve for 3 years on active duty. Because of the change permitting selection prior to enlistment, I can now strongly recommend this program to any physically qualified student interested in the Navy. The deadline for this year’s applications is January 31. Any hope that is interested can get the facts on the program from me, or by calling the Naval Reserve Training Center in Pasadena. I can be found near every afternoon manning exotic compounds in my lab, 902 Crel- lin and will be most happy to show the march of science to talk to anyone that is interested in the ROC program.

Clay M. Sharts
Economist to lecture here

Dr. John Kenneth Galbraith, Professor of Economics at Harvard University, will give a series of three Haynes Foundation Lectures on Economic Values in Doheny Hall, Long Beach, on January 15, 17, and 21. The first lecture, given at 8:30 Tuesday evening, is titled "Equality and Social Nastalgia," the second, Thursday, "The Preoccupation with Production," the third, Monday, "New Values and Social Balance."

Dr. Galbraith is the author of American Capitalism: The Concept of Countervailing Power.

(Continued from page 1)

DuBridge

(Continued from page 1)

That night, the Trustees gave an informal dinner in Dr. DuBridge's honor at the California Club.

The faculty dinner, held on Dec. 7 at the Athenaeum, was also in honor of Dr. DuBridge's anniversary. Afterward, the faculty and their wives gathered in the buffet room to enjoy a musical comedy called What To This Gay DuBridge in Colbert's Hall, the script, written by Mr. Edward Hutchings and Dr. J. Kent Clark with music composed by Mr. Elliot Davis, a Pasadena attorney, humorously depicted the meeting of the Board of Trustees at which Dr. DuBridge was chosen President. A recording of the performance will soon be on sale at the bookstores.

The increase in total income due to these three factors has been sufficient since 1951 to meet the rising cost of operating the student houses. However, the final effect of these rising costs is that in 1956-57 the operating expenses of the student houses will exceed the total income. The increase in rates is necessary to align operating expenses with total income.

Garrett's growth has been rapid and its position sound and stable, mainly because of the creative ability and ideas of its engineers.

Airesearch jet pump "shoots air bullets to increase efficiency of refrigeration units"

The Garrett Corporation combines some of the most unique and diverse research, engineering and manufacturing organizations in the world.

The parent company, founded in 1936, has grown from three persons to nearly 10,000 scientists, engineers and production specialists. From the Airesearch laboratories have come the pioneer developments in aircraft components and systems which have pushed back the barriers of speed and altitude. Today, 90 per cent of the free world's aircraft carry this equipment. Divisions and subsidiaries are also engaged in creating industrial products in such varied fields as marine equipment and turbochargers for diesels, and in supplying sales and installation engineering services to airlines, companies and the military.

Through foreign licensees, Garrett's products and engineering services now circle the globe.

Air turbine auxiliary pneumatic and electric power units.

Engine Development
Thermodynamics
Aerodynamics
Missile Accessories
Design
Combustion Analysis
Chemical Engineering
Mechanical Engineering
Instrumentation
Gas Turbines
Stress-Vibration
Technical Writing
Preliminary Design

Drawing Checking
Engineering Analysis
Gear Engineers
Vibration Engineers
Gear Design
Design and Detail Drafting
Laboratory Technician
Sales Engineering
Installation Engineering
Liquid Oxygen
Air and Freon Centrifugal Compressors

Mathematics
Air Data Systems
Electrical Engineering
Taco Style Meg-Amps
Instrument Design
Communication Equipment
Electronics
Analogue Computers
Cycle Analysts
Control Engineers
Computer Programming

TYPICAL PROJECT ACTIVITIES

Gas turbine auxiliary pneumatic and electric power units.

Electronic air data computers, pressure ratio
transducer instruments, electrical systems and motors and generators.

Air and vapor cycle refrigeration turbines, hydraulic and mechanically driven pressurization compressors.

Auxiliary power units and control systems for various types of missiles.

Jet engine and rotating machinery design and analysis involving combustion, turbomachinery, gas dynamics, thermo-dynamics and aerodynamics.

Preliminary design from analytical and theoretical considerations for high-level technical work in aerodynamics, stress analysis, thermo-dynamics, heat transfer, nuclear power and mathematics.

STUDENT HOUSES

In the student houses, thus the greater number of delegates has resulted in increasing the total income. A third factor has been the steady increase of non-residents eating in the houses.

Air and Freon Centrifugal Gas Turbines

Airesearch jet pump "shoots air bullets to increase efficiency of refrigeration units"

Horsy House Heap Hester

Fleming Pres. Hilvot Whitlet left his space at the pari-mutuel window long enough to post an announcement from the Pocatello Monthly (best little paper in the West) about his engagement to a lovely and far-sighted young lady.

Katherine Knapp Knebels

When Knapp found nowhere near as well, having been abandoned by a small but husk doll for a Boytrock Co. parking lot attendant. She did, however, give him a small memento—a slight dose of the mobo. Capping it, he cleverly blew it on a bookshift. Tag-garhouse cost $150 used.

(Continued on page 2)

Air and Freon Centrifugal Gas Turbines

INTERVIEWS on CAMPUS...Fri., Jan. 11

B.S.—M.S.—Ph.D. CANDIDATES

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AIRESEARCH INDUSTRIAL DIVISION
LOS ANGELES, CALIFORNIA
AIR SUPPLY DIVISION
BEVERLY HILLS, CALIFORNIA
AIR CRUISES DIVISION
BELMAR, NEW JERSEY
REX DIVISION
LOS ANGELES, CALIFORNIA
Allen Ely

Or how much highway in a gallon of gasoline?

"Ask a person what he pays for a gallon of gasoline and even if he remembers correctly, his answer is usually wrong."

"Because nine times out of ten the price he quotes includes the tax."

"Gasoline, you see, is one of the few things we buy where the tax is lumped in with the total cost of the product."

"Don't misunderstand me. That tax helps build the highways this country needs, and certainly we are in favor of it."

"But since by law we have to collect it—and many motorists figure it's part of our profit—it doesn't make the dealer's or our selling job any easier. Especially since the federal tax on gasoline went up another cent last July."

"That means direct state and federal taxes now average 8.8c per gallon. In some states it is even as high as 10c.

"We get only a few cents more than that at the refinery for a gallon of gasoline. But the tax is still cheap if it buys the best highway system in the world."

"Next time you get your bill for filling up, though, just remember that at least 8.8c per gallon is the cost of roads, not gasoline."

Allen Ely—with the Union Oil Company since 1927—is responsible for paying our fuel and gas taxes to the government:

Last year, for example, we collected from our customers and turned over to state and federal agencies some $63,000,000 as fuel taxes.

In spite of this, you never got so much for your money as you do today when you drive in and say, "Fill her up."

For while the cost of everything else has tripled and quadrupled in the past 20 years, we're getting only a few cents more for gasoline.

And two gallons of our new Royal 76 premium do the work of three of our old product.

YOUR COMMENTS ARE INVITED: Write: The Chairman of the Board, Union Oil Company, Union Oil Building, 617 West 7th Street, Los Angeles 17, California.
Socialites in action Friday

Dalbay's social program this weekend will include a "Rainy Day" party Friday night and a bowling party Saturday night. Both events will be followed by open house.

Friday-night fitness will have an exchange with Mudd-Blissell Hall of Pomona College. Saturday night they will have a joint square dance with Throop Club at 8 p.m.

"Who knows?" is the Friday evening program listed by Ricketts. Saturday they will have an exchange. Blacker will have a theater party at the Pasadena Playhouse-Saturday night.

Under a new program starting this term, the dances following home league games will be sponsored by the various classes under the auspices of ABEF. The sponsoring class chooses the location of the dance. The first of these dances—will be sponsored by the junior class and will follow the Whittier game on January 10.

CAMPUS BREWS

(Continued from page 3)

Mental Midgets Manufacture Maxims

E. Krabbel—"Animals like me."

B. Barnor—"I went out with FIVE girls this vacation. One was real cute—"?

E. Park—"I like to go to Bob's Paine, a student at the Fuller Seminary. Mr. Paine also owns the Maxims Bible. The meetings will be held on Wednesdays.

Dance class to cha cha, samba on Wednesdays

ASCIT dance classes will be held again this term starting on Thursday, January 16 at 7:30 for beginners and 8:30 for advanced students. Eight lessons will be given this term. Two dollars for the series or $25 cents per class. The instructor will be Leon Partin, Pasadena dance instructor. The beginners will learn the swing, mambo, cha cha, samba, and the rhumba. The advanced class will study the jitterbug, polka, tango, samba, and the rhumba. The profit from the classes will be used for refreshments, unspent Keith Brown, Chairman. The girls are from PCC, Westridge, and San Marino. Anyone interested in the class should attend the meeting next Wednesday.

Paine to lead Bible studies

The Caltech Christian Fellowship has planned a series of meetings on how to study the Bible. The meetings will be held from 12:30 to 1:30 in 202 Danforth each Friday afternoon. The meetings, which will help students read the Scriptures more profitably, will be led by Dwight Paine, a student at the Fuller Seminary. Mr. Paine also majored in mathematics at the University.

Danforth Foundation gives Caltech YMCA $2400 to bring theological students here

The Caltech YMCA has received a gift of $2400 from the Danforth Foundation of St. Louis, to be used during the next year to support a program of religious activities on the institute campus.

The Danforth Foundation was established in 1927 by Mr. and Mrs. William H. Danforth of St. Louis, to serve the educational needs of young men and women with emphasis upon the cultural and spiritual aspects of education.

Students to visit

Most of the Danforth gift, Institute officials said, will be spent to bring a half-dozen outstanding American theological students of differing faiths to the campus for a week's visit this coming February. During their stay they will live with Caltech students in the student dormitories, become acquainted with the viewpoint of a prominent scientific and engineering school, and, in a series of informal meetings, explore religious questions of mutual concern with Caltech undergraduates, graduate students and members of the faculty.

Two religious programs

Also included in the Danforth gift to Caltech are funds to cover two additional religious programs. The first will make it possible to bring an outstanding theologian to the campus to discuss religious questions with the students. The second will support a cooperative inter-church program of religious meetings, under the joint sponsorship of the Caltech YMCA and neighborhood churches for Caltech and other college undergraduates and graduate students in the Pasadena area between the ages, roughly, of 18 and 25. Plans are underway to put all of these programs into operation before the close of the present academic year.

The chief criteria governing the selection of theological students who will be invited to visit the Caltech campus are that they shall be outstanding student leaders, possess interesting personalities as well as intellects, and that they shall be vitally interested in discussing religious questions with Caltech students on a thoughtful, intellectual level.

Brandon, Hershey in charge

The Danforth program will be supervised by V. President Baird Brandon, and Wes Hershey, executive secretary of the YMCA. Assisting them is a faculty committee consisting of Professors Al Ingersoll and Harold Wayland of the engineering division, and B.ich Langston and Dan Piper from the Humanities division.

Danforth Fellows

The Danforth Foundation also inaugurated a program of graduate fellowships in 1951; and since the first class was appointed in May, 1952, Caltech has had at least two Danforth Fellows each year working towards their graduate degree. For the current 1956-57 year, the Danforth Fellows are David Bing-Joe Chang, Seattle, Washington; James King, Columbus, Georgia; and Richard Kanne Sloan, Pasadena, California.

DON'T MISS THIS DATE... ON CAMPUS FRIDAY JAN. 18th

JUNE GRADUATES

A General Motors Representative will be on hand to answer your questions about job opportunities with GM

January 14 and 15

Our College Representatives speak for all of our many decentralized divisions throughout the country.

They are familiar with career opportunities throughout the entire organization, including staff and divisional operations, and can answer your questions fully.

We cordially invite June graduates, and those graduating this summer, to arrange an appointment through your College Placement Office on one of the above listed dates.

GM Positions now available in:

- Electrical Engineering - Mechanical Engineering
- Metallurgical Engineering - Chemical Engineering
- Aeronautical Engineering - Industrial Engineering
- Chemistry - Physics - Ceramics

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AIRBORNE INSTRUMENTS LABORATORY

160 OLD COUNTRY ROAD
MINOLDA, L.I., NEW YORK

Write for booklet "Freedom for Initiative"
Tech faces Oxy in SCC opener

Coach Carl Shy's varsity hoopers open The 1956-57 SCC season tomorrow as the Beavers travel to Occidental to face a tough Tiger five. The Bengals are defending co-champions in the conference, but their conference record to date consists of a loss to Redlands, 1966 co-champions.

Fred Tiffany, hottest forward, is the man the Beavers will have to contain if they have thoughts of victory. Tiffany has rewritten the record books in his solo run at Occidental, and is rated as one of the top players on the Pacific coast. His short stature, Tiffany stands 6 ft. 11 in., and he teams with Howard Safer, 6 ft. 11 in. junior, to give the Bengals a potent backcourt combination.

Occidental has three big men for rebounding strength and a close-in scoring punch. Al McQuire, 6 ft. 4 in., Bob Parsons, 6 ft. 3 in. and 6 ft. 6 in. center Bill Insole give Occidental a distinct height advantage over the Beavers. Jack Rankin, Gordon Lindsey, and Gary Kertson are capable reserves for the Tigers.

Caltech will be seeking its first conference win in over two years, as the Beavers have been winless in SCC competition since the days of Olby. Fred Amst and Co. Caltech will look to center Larry Krause to provide much of its scoring punch. Krause stands 6 ft. 11 in., but is endowed with tremendous spring, enabling him to outjump many taller opponents.

Captain Jim Welsh and Fred Newman are the probable starting guards, and forwards Caun Converse, Howard Bloome, Bill McClure, and Dick Van Kirk are battling for the other starting berth. Harry Patapoff may see action at a guard post. Ray Maglione, sophomore guard, and Herb Rauh, senior center, are also expected to see considerable action. Sonny Nelson may see limited service, though he is handicapped by a recurrent knee injury.

What's doing...
at Pratt & Whitney Aircraft

Mission accomplished...top-of-the-world and back—non-stop

Eight global bombers, powered by mighty turbojets, recently set non-stop records in 16,000- to 17,000-mile flights described as a "routine training mission to demonstrate the capability of the B-52 and the men who fly it". Flying continuously for as long as 32 hours, the mammoth aircraft—each powered by eight Pratt & Whitney Aircraft J-57 turbojets—traveled northward from air bases in California and Maine, over Thule, Greenland, continued to the North Pole, then returned by way of Anchorage, Alaska, to land in San Francisco, Baltimore, or Limestone, Maine.

During this spectacular top-of-the-world mission, temperatures as low as 65 degrees below zero were encountered, speeds approached 700 miles per hour, altitudes in excess of 35,000 feet were maintained, and each Boeing B-52 was refueled in mid-air several times. Powering the KC-97 Stratofreighters that accomplished the task of in-flight refueling were the mightiest piston engines ever built. P & W's R-4360 Wasp Major.

"Mission accomplished"...a brief but all-encompassing tribute—to the Stratofreighters troop carriers, to the Air Force's engineering and research organizations, and to the gigantic team of engineers in the aviation industry whose years of research and accomplishment represent thousands upon thousands of hours that were required to make these record-breaking flights a reality.

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THE CALIFORNIA TECH
Thursday, January 10, 1957
Chapman takes easy win over outmanned Beavers

Chapman College's Panther basketball team scored Caltech Tuesday and went away with an easy 85-59 win over the Caltech five. Pitting a 21-8 Caltech lead, Chapman were down on the determined Beavers with a steady stream of substitute in a second five to finish the game. Ray Magdaleno and Glenn Converse distinguished themselves in this period with their hustling ball-hawking tactics.

BOX SCORE

Chapman 49 ft ft tp
Bloomfield, F 2 0 1 4
Van Kirk, F 2 0 2 4
Kraus, D 2 1 1 6
Welsh, G 2 1 1 5
Newman, G 2 2 1 6
McClure, F 1 0 0 0
Converse, F 1 1 2 3
Bauh, C 0 0 1 0
Basu, G 0 0 0 0
Patapoff, G 0 0 1 0
Magdaleno, G 1 0 1 0
Totals 14 4 11 32

Chapman 2 0 1 0
Smith, F 0 0 1 0
McCarter, F 0 0 1 0
Hamblin, C 4 4 1 0
Bins, C 8 3 1 9
Fields, F 4 3 2 11
West, C 0 0 1 0
Williams, C 4 4 1 0
Arnold, G 3 1 1 7
Graham, G 0 0 1 0
Totals 26 11 9 63

Chapman 31.

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Oppunities for Students with Bachelor Degrees in

- Chemical Engineering
- Chemistry
- Mechanical Engineering

This is a chance to get a head start in your professional career. Allied Chemical & Dye Corporation, Company representatives will be on the campus for interviews January 18. Contact Placement Office for an interview, appointment and descriptive literature.

General Chemical Division
Allied Chemical & Dye Corporation
New York, N.Y.

Opportunities for Engineers and other Technical Graduates

Phillips Petroleum Company, one of America's great integrated oil companies, has positions open for engineers, chemists, physicists and virtually every kind of technical graduate at the Bachelor, Master or Ph.D. levels. Representatives of Phillips Petroleum Company will visit your campus on Monday, January 14th.
Enginers:

when your
career is
concerned...

One wise move
deserves another

Your decision to work for an engineering degree was a wise one. You are about to graduate to a professional level which itself is an exclusive prize that few are qualified to achieve. You have chosen a profession which is providing leadership for the most dramatic advancements of our age. Time now for another decision. Where can you invest your education so it will bring you maximum returns in satisfaction and success? Where can you serve with credit to your profession and society? If these are your goals, we'd like to suggest your next move. Associate yourself with other engineers whose aims are the same as yours. Choose an organization with a reputation for engineering excellence and an abundance of modern equipment and advanced projects. You can find these surroundings at Chance Vought, and you may obtain firsthand advance information about any feature of Chance Vought engineering from our campus representative. Ask your placement office to arrange an appointment for you. Meanwhile, for interesting facts about Chance Vought opportunities, check your library's engineering job directories, or write directly to: Engineering Personnel, Chance Vought Aircraft, Inc., P. O. Box 5907, Dallas, Texas. Note especially our history of fighter aircraft development; our most recent additions to this history, the F8U-1 CRUSADER Navy fighter and REGULUS guided missile, and our current projects in jet fighter aircraft and surface-to-surface missile development. Find out how Chance Vought can help you make your next career move as wise as your first.