

CALTECH NEWS

VOLUME 6, NUMBER 9, DECEMBER 1972

PUBLISHED FOR ALUMNI AND FRIENDS OF THE CALIFORNIA INSTITUTE OF TECHNOLOGY



Professor Harrison Brown (third from right) and other Caltech faculty members guide group of leading Russian scientists on tour of campus facilities.

Top Russian scientists visit campus

Caltech played host to a group of Russia's leading scientists on a visit sponsored by the National Academy of Sciences. With a minimum of publicity, the Russians lived at the Athenaeum for three days while they visited with faculty members and administrators, toured laboratory facilities, were guests at a student house, and even sampled a little Hollywood nightlife.

The group, led by M. V. Keldysh, president of the USSR Academy of Sciences, arrived on campus October 25 after a visit to the University of California at Berkeley and Stanford University. With Keldysh were:

Aleksandr M. Prokhorov, deputy director of the Lebedev Physics Institute, and chief editor of the Great Soviet Encyclopedia. He was a co-recipient in 1964 of the Nobel Prize in physics, and is an international authority on lasers.

Stephan G. Korneyev, a liaison for Soviet scientists abroad and for foreign scientists visiting the USSR.

Igor M. Makarov, a specialist in automatic control systems.

Yuriy A. Ovchinnikov, director of the Institute of Natural Compounds and deputy chief scientific secretary of the USSR Academy of Sciences.

Guriy I. Marchuk, deputy chairman of the Siberian Department of the USSRAS. He is a specialist in computer mathematics and meteorology.

Guided by Harrison Brown, foreign secretary of the NAS and professor of geochemistry and government at Caltech, the Russians started their first day of activities with a visit to the Environmental Quality Laboratory, then met with President Harold Brown and Provost Robert Christy.

After leaving the president's office, the group split up with each man visiting the laboratories in his special field. That night individuals in the Russian group were dinner guests in the homes of five faculty members: Hans Liepmann, Gilbert McCann, John Roberts, John Seinfeld, and Amnon Yariv.

Although the visit was scheduled without publicity, some enterprising Blacker House students took the opportunity to

invite the Russians to drop in for some sherry and an informal rap session on their return to the Athenaeum from the faculty homes. Overcoming the language barrier, the Russians enjoyed themselves sitting on the floor in Blacker lounge and answering the students' questions about science in Russia.

On their second day, the Russians toured the Jet Propulsion Laboratory in the morning, then in the afternoon they accomplished what the late Nikita Khrushchev failed to do. They visited Disneyland.

After dinner with another faculty group at the Athenaeum, the Russians decided their investigation of American science and culture would not be complete without a visit to the corner of Hollywood and Vine and a look at the footprints of the stars in front of Grauman's Chinese Theater. Although the Caltech faculty members who were hosts for the Russians were beginning to feel the strain of the nonstop schedule of activities, they gamely took the Russians to see the sights of Hollywood and even threw in a nightclub visit.

The Russian visitors were all smiles when they left for Houston the next morning. There seemed little doubt that they left convinced that Caltech is where the action is.

Volunteers are key to success of Alumni Fund

"Several hundred of our Alumni Fund volunteers are hard at work soliciting other alumni throughout the country and gifts are increasing in number every day," said Donald D. Davidson, BS'38, chairman of the 1972-73 Alumni Fund, as he summarized Fund activities.

"If everyone completes his assignments and the alumni respond as we expect, then we'll reach and exceed our first-year goals. Our volunteers are the key to the Fund's success, and I'm most appreciative of the effort they're putting into their assignments."

Davidson said 477 alumni had contributed \$177,719.58 toward the Fund as of December 1. The Alumni Fund one-year goal is 3,500 alumni gifts totaling \$300,000.

He explained that workers were personally calling on a limited number of alumni prospects through November 30 and that a mailing will be made to all alumni beginning December 1.

"Several very significant gifts are pending or have been pledged verbally and should arrive before December 31," he added. "We're expecting late December to be a peak period because many contributors make their gifts during the last few days of the tax year."

"Any alumnus who would like to do so may send his contribution directly to the Fund office at the Institute. We're counting on everyone's participation to make the Fund a success."

The Alumni Fund, which traces its origin back to the late 1940's, was suspended in 1967 in favor of the five-year Science for Mankind Development Program. The annual Fund was begun again this September with a kickoff meeting on the Caltech campus of all volunteer fund leaders.

Research gun provides clues about earth's core

Oldtime gun fighters who touted themselves as "the fastest gun in the west" would whirl in their graves if they knew that a Caltech professor has established a new and unassailable record.

Thomas J. Ahrens, associate professor of geophysics, has disclosed plans for installing a gun which will give man his first detailed look down to the center of the earth. Ahrens's research cannon is a two-stage scientific "weapon" 106 feet long, capable of accelerating plastic "bullets" up to velocities of 30,000 miles an hour—ten times faster than an ordinary rifle bullet. At these speeds the bullets will smash into samples of minerals, creating within them for an instant the pressures and temperatures at the earth's core. The speed of the bullet is controllable so that the earth's interior can be simulated at any depth.

Construction of the gun laboratory has begun, and the apparatus should be in operation in January 1974. The gun will be located in the sub-basement of Caltech's new geophysics building, where heavy walls and soundproofing will prevent its firing from being heard elsewhere in the building.

The apparatus is expected to open a new dimension of knowledge about how minerals behave under tremendous pressures up to 3.6 million times that of the earth's atmosphere at sea level, and temperatures up to 7,000 degrees Fahrenheit. It should also increase understanding of how energy moves through the earth, and consequently add to knowledge of earthquakes and volcanoes.



M. V. Keldysh (right), president of the USSR Academy of Sciences, converses with Caltech President Harold Brown (back to camera) in group meeting with faculty during three-day visit.

ROSE PARADE SPECIAL

On January 1, 1973, all Caltech alumni and their families are invited to attend:

- Continental breakfast in the Athenaeum, 7:30-9:00 a.m.
- 84th Annual Tournament of Roses Parade, reserved grandstand seats at Holliston and Colorado, 9:00-11:15 a.m.
- Buffet luncheon in the Athenaeum or box lunch for those going to the game, 11:30 a.m.
- Bus transportation available for those with Rose Bowl tickets only, from Athenaeum and return.
- Cost: \$14.00 per person.

CALL THE ALUMNI OFFICE FOR RESERVATIONS



Louis Breger, associate professor of psychology, discusses research on dreams at an informal seminar and group discussion at the Caltech Y.

'Times They Are A-Changin'

Caltech Y reflects student attitudes

To quote the Bob Dylan song: "The Times They Are A-Changin'." And nobody knows this better than the Caltech Y.

Changes in student attitudes were reflected in the decisions made by officers of the Y in a week-end planning session held at the Caltech-Capra ranch in Fallbrook at the opening of the academic year. Attending were the Y student cabinet, members of the board of directors, executive director Wes Hershey, and the new associate director, Walt Meader.

Hershey, who has been closely associated with students for 26 years, was struck by one thing in particular in this year's conference. During the entire weekend, politics, the Vietnam war, international understanding, and ecology were mentioned seldom if ever.

A look at college-oriented publications around the country points up the fact that the Y planning session reflected the transitional attitudes of this year's college students, who are far less activist than they were two or three years ago. At Caltech they tend to be getting back to their preoccupation with science.

Although students are spending more time with science, Hershey says the ones he sees "show a certain pensiveness for alternative life styles as well as alternative careers. The house system doesn't seem to provide the social programs or exact the strong loyalties that it used to."

According to Hershey, many students this year express an underlying uneasiness about their personal identities and career choices. So, this year's Y program will include informal group discussions on alternative life styles, and personal encounter groups.

The encounter groups do not have the



Richard Feynman (center), Richard Chace Tolman Professor of Theoretical Physics, talks with group of students during session held in Y Lounge last month.

broad, sometimes dizzying, emotional impact that they had at the start of their popularity around five years ago. But they are still desired by, and seem to work well for, enough students so that the Institute psychologists Nancy Beakel and Ian Hunter will continue to have groups going under Y sponsorship.

At the planning session 60 areas of student interest were suggested, from which 12 were chosen for programs. One series will be on "Life Beyond Science," in which other interpretations of life, besides the purely scientific one, will be explored by students and invited speakers.

Possible workable life styles at Caltech also will be investigated as these students

seek the kinds of new living environments that will work best for them.

There will be a major conference on Programming for Human Behavior, with the probability of an appearance by psychologist B. F. Skinner.

During the era of national campus unrest, part of its manifestation at Caltech was a disinterest in the once highly popular Leaders of America series as students involved themselves more in their own social concerns. Now, it looks as if students would like the series reactivated.

Last year the Y started bringing informal live music to the campus on Fridays. This was so popular that it will be continued this year. Most concerts will be folk rock with much of the talent coming from Pasadena's famous Ice House.

Two other major programs that the students have requested continued are the visiting lecturers program and the tours of the Jet Propulsion Laboratory that give students the opportunity to talk with project heads.

Two grants received for Saturday School

Caltech's Saturday School for junior high and high school students talented in science or mathematics will be supported this year by grants of \$8,500 from the John A. McCarthy Foundation of Los Angeles; and \$3,000 from the Xerox Corporation through the interest of a Pasadena subsidiary, Electro-Optical Systems.

Guided by Lee F. Browne, director of secondary school relations, the students attend lectures, conduct laboratory experiments, and discuss science with Caltech graduate and undergraduate students and faculty members who act as instructors.

Calendar

- Tuesday, Dec. 12, and Wednesday, Dec. 13, 8 p.m. Beckman
BIG BAND CAVALCADE featuring Frankie Carle, Bob Crosby, Freddy Martin, and singer Margaret Whiting. \$6.75-5.75-4.50-3.50.
- Sunday, Jan. 7, 8 p.m. Dabney Lounge
CHAMBER MUSIC CONCERT featuring Michael Sanders at the piano. Free.
- Saturday, Jan. 13, 8 p.m. Beckman
HORACIO GUTIERREZ, pianist, winner of the prestigious Tschaikovsky competition. \$5.50-4.50-3.50-2.50.
- Sunday, Jan. 14, 3:30 p.m. Beckman
COLEMAN CHAMBER MUSIC CONCERT: The Lasalle Quartet. \$5-4-3-2.50; students, \$1 reduction.
- Monday, Jan. 15, 8 p.m. Beckman
EARNEST C. WATSON CALTECH LECTURE SERIES: "Infrared Astronomy," Gerry Neugebauer, Caltech professor of physics, and staff member, Hale Observatories. Free.
- Friday, Jan. 19, 8 p.m. Beckman
ARMCHAIR ADVENTURE SERIES: "The Klondike," narrated by Don Cooper. \$3-2.50.
- Sunday, Jan. 21, 8 p.m. Beckman
ARMCHAIR ADVENTURES MINISERIES: One of a special series of three travel documentary films; "Alaska (Inside Passage and the Aleutian Islands)," narrated by Don Cooper. Series, \$6.75-5.25; single admissions, \$3-2.50.
- Tuesday, Jan. 23, 8 p.m. Beckman
TUESDAY NIGHT AT THE SILENT MOVIES: Comedy Night, with Buster Keaton's "Sherlock, Jr." and shorts by Keaton and Charlie Chaplin. \$2.50; students, \$2.
- Wednesday, Jan. 24, 8 p.m. Ramo
YOUNG CONCERT ARTISTS: Rolf Schulte, violinist, in a program of Mozart, Brahms, and Bartok. Series, \$6; students, \$4.50; single admissions, \$3; students, \$2.
- Saturday, Jan. 27, 10 a.m. to 4 p.m.; Sunday, Jan. 28, noon to 5:30 p.m. Baxter
CIRCUS WORLD MUSEUM — THE JOSEPH SCHLITZ COLLECTION OF CIRCUS LITHOGRAPHS. Free. MODEL CIRCUS DISPLAYS. Free.
- Saturday, Jan. 27, 11 a.m. and 2 p.m.; Sunday, Jan. 28, 1 p.m. and 3:30 p.m. Beckman.
CALTECH CHILDREN'S CIRCUS (first of five shows in the Children's Series). Single admission: children \$1.50, adults \$2; series admissions: children \$6.25, adults \$8.75.
- Saturday, Jan. 27, 12:30 p.m. to 8 p.m.; Sunday, Jan. 28, 2:30 to 9 p.m. Ramo
GREATEST SHOW ON EARTH. Continuous run—admission by ticket or ticket stub to any performance of Children's Circus, or 25¢ for children, 50¢ for adults.
- Monday, Jan. 29, 8 p.m. Beckman
EARNEST C. WATSON CALTECH LECTURE SERIES: "Space Navigation: Yesterday, Today, and Tomorrow," William G. Melbourne, section manager, tracking and orbit determination, JPL. Free.
- Saturday, Feb. 3, 8 p.m. Beckman
TOEDORA MORCA, FLAMENCO IN CONCERT with Maria Del Rocio and guitar accompanist. \$5-4-3-2.
- Sunday, Feb. 4, 8 p.m. Dabney Lounge
DABNEY LOUNGE CHAMBER MUSIC CONCERT featuring Joel Krosnick (cello), Jill Shires (flute), Leonard Stein (harpichord), and Alan Vogel (oboe), performing music by Couperin, Elliott Carter, Bach, and Telemann. Free.
- Wed. through Sat., Feb. 7-10, 8 p.m. Ramo
SPECTRUM PRODUCTION 3 — *Ivanov*, by Chekov.
- Saturday, Feb. 10, 8 p.m. Beckman
THE VIENNA BOYS CHOIR in a program of classical, folk and sacred songs with scenes from operettas. \$6.75-5.75-4.50-3.50.

Goodbye, Louise



At retirement party for Louise McGee Eder (third from left), secretary in athletic office for 33 years, are (from left) Karen and Tom Gutman, Warren and Joan Emery, and Burt Kanner.

CALTECH NEWS

Vol. 6, No. 9 December 1972

Issued nine times a year (Oct., Nov., Dec., Feb., Mar., Apr., May, June and July) and published by the California Institute of Technology and the Alumni Association, 1201 East California Blvd., Pasadena, California 91109.

Second class postage paid at Pasadena, California.

EDITORIAL STAFF

Executive editor: William K. Cassell
Associate editors: Joy Hays, Winifred Kennedy, Janet Lansburgh, Kathleen Marcum, and Kay Walker.
Photographer: Don Ivers.

PERSONALS

1932
CHARLES W. JONES, engineer, now of Caltech, along with Rochlin & Baran & Associates, a Los Angeles architectural firm, recently received the U.S. Corps of Engineers 1971 Design Award for the \$4.3 million Sacramento Peak Observatory. Located at Sunspot, N.M., the facility houses the world's largest solar telescope.

1939
ROBERT T. CARTER, BS '40, formerly deputy general manager in the refining department-international, Texaco, was recently appointed general manager of the department. He will continue to be located in New York in his new assignment.

1946
ALI B. CAMBEL, MS, has been elected vice-president and deputy director of the systems group of General Research Corporation. His headquarters will be in the Washington area offices in Arlington, Va. He was formerly executive vice-president for academic affairs and a professor of engineering at Wayne State University in Detroit, Mich.

DONALD B. HICKS has been appointed an assistant manager of the market development department, Kaiser Steel Corporation, Oakland. He has specialized in sales of Kaiser Steel's mill products since he joined the company in 1953. His new work includes the introduction of innovative designs and applications for the company's mill products output in particular.

1947
BLAINE R. PARKIN, MS '48, PhD '52, formerly an advanced aircraft program manager for the Convair Aerospace Division of General Dynamics Corporation, San Diego, has recently accepted an appointment with Pennsylvania State University as professor of aerospace engineering and director of the Garfield Thomas Water Tunnel of the Ordnance Research Laboratory.

1950
DONALD J. OSWALD, MS '51, was named president of Ocean Industries in June 1971. He was previously director of corporate planning with Dillingham Corporation in Honolulu. Ocean Industries is a Dillingham subsidiary.

1955
WILLIAM A. RANK, MS, was recently presented with the Legion of Merit with an Oak Leaf Cluster for his service to the U.S. Army War College at Carlisle Barracks, Penn. He has been chief of the planning branch and director of instruction.

1956
EASTMAN HATCH, PhD, has recently been named chairman of the physics department at Utah State University, replacing W. FARRELL EDWARDS, MS'57, PhD'60.

ALBERT L. ROMANESKI, MS, was appointed

engineering and construction director for the Panama Canal Company, effective last August.

1957
HARRISON H. "JACK" SCHMITT is currently en route from Cape Kennedy, Fla., to the moon on government business. The geologist is the first scientist invited to visit earth's neighbor.



Hicks '46



Parkin '47

1961
ELI I. CHERNOW has been appointed an associate professor for the University of Southern California Law Center. A graduate of the Harvard Law School, Chernow has been a member of the law firm of Tuttle and Taylor, Los Angeles.

JOHN B. TRENHOLME, MS '62, PhD '70, is now in charge of computational analysis for the laser fusion division of the Lawrence Laboratory of the Atomic Energy Commission in Livermore, Calif. He was formerly a physicist for Naval Research Laboratories, Falls Church, Va. JOHN L. EMMETT, BS '61, is head of the laser fusion division of the Lawrence Laboratory.

1962
FREDERICK W. WEINGARTEN is now a program director in the office of computing activities, the National Science Foundation. He was director of the Institute for Educational Computing of the Claremont Colleges.

1963
HARVIE ANDRE, MS, was recently elected Member of Parliament for Calgary Centre in the Canadian national election in October. He was formerly an associate professor of chemical engineering at the University of Calgary, Alberta. This news was provided by CHARLES W. HUNT, BS '45, also of Calgary.

PAUL J. NAHIN, MS, received his PhD in electrical engineering from UC Irvine in June 1972 and is now an assistant professor of engineering at Harvey Mudd College in Claremont. He is also a part-time consultant to General Dynamics in Pomona. Formerly, he was associated with Hughes Aircraft and Beckman Instruments, both in Fullerton.

1965
WILLIAM R. ZAME is currently an assistant professor in the department of mathematics

of the State University of New York at Buffalo. He was formerly an instructor at Rice University, Houston.

1966
JOHN D. DITMARS, MS, PhD'71, is a newly appointed assistant professor at the University of Delaware with a joint appointment in the Colleges of Engineering and Marine Studies. He has spent two years as an assistant professor at MIT.

PHILIP L. LAIPIS, formerly a graduate student at Stanford, is now a visiting fellow at Princeton.

JOHN V. LEVY, MS, is now a senior engineer at Digital Equipment Corporation, Maynard, Mass. He was formerly a research assistant at the Stanford Linear Accelerator Center.

EDWARD T. OLSEN, MS, is a resident research associate at Caltech's Jet Propulsion Laboratory.

JEAN C. SHELTON is currently working at the Astronomical Institute, Sonneborgh Observatory, at the University of Utrecht in the Netherlands.

LARRY D. WITTIE, former graduate student at the University of Wisconsin, is now an assistant professor in the computer science department, Purdue.

1967
GARETH W. EDWARDS recently received a PhD in physics from the University of Colorado.

JAMES E. FISHBEIN, a former graduate student in the School of Business at Stanford University, is currently involved in manufacturing management for the General Electric Company in Trenton, N.J.

MICHAEL G. HAUSER, PhD, former instructor of physics at Princeton, is now a senior research fellow in physics at Caltech.

1968
GREGORY J. BREWER and his family are now living in the Boston area. He received his PhD in biology from UC San Diego, and is now at MIT with Dr. Salvador Luria under a Damon Runyon Memorial Cancer Fund Postdoctoral Fellowship.

BRAD LEE HOLIAN has received his PhD from UC Berkeley in theoretical chemical physics and has accepted a position as a postdoctoral research fellow at the Los Alamos Scientific Laboratory.

1969
HARRY J. JEFFREY received his MS in computer science from the University of Colorado in 1972.

GREGG WRIGHT has earned a master's degree in education at the University of Massachusetts. He and his wife Christine will now begin their third year in medical school at Case Western Reserve University in Cleveland. Wright said, "For both of us this year has been a chance to get another view on schools, child development, and education as they relate to our interests in pediatrics."

1970
LEONARD DOBERNE has received an MS in environmental health sciences and is now attending UCLA Medical School.

ROBERT A. FROHWERK, former test systems design engineer, Intel Corporation, Santa Clara, is now test supervising engineer, Scully/Metrotech, divisions of Dictaphone Corporation, Mountain View, Calif.

1971
WARD A. LUTZ, MS, was recently assigned as an instructor with the U.S. Military Academy, West Point.

AHMET OZKUL, graduate student at George Washington University, Washington, D.C., has been assigned to research work there at NASA's Langley Research Center, structural dynamics section.

DUNCAN PAUL TAYLOR has finished his first year of Peace Corps service in Antigua, West Indies, as a high-school instructor in chemistry and biology. He was married in April in the West Indies to Jeanne Dam-

gaard, a Peace Corps volunteer from New York.

1972
LORING G. CRAYMER III is serving at K.I. Sawyer AFB, Mich., on his initial active duty assignment. He is now a member of the Strategic Air Command.

HARRY A. QUANDT, MS, is currently employed at McDonnell Douglas Corporation, Huntington Beach.

ALUMNI ASSOCIATION
OFFICERS AND DIRECTORS

PRESIDENT Arthur O. Spaulding '49	SECRETARY H. M. O'Haver '29
VICE PRESIDENT Stuart M. Butler '48	TREASURER Raymond L. Heacock '52
DIRECTORS	
Charles E. Auerbach '47	Richard Karp '54
William J. Carroll '48	Wayne T. McMurray '45
Spicer V. Conant '64	Reuben B. Moulton '57
James L. Higgins '56	Richard C. Nielsen '66
William C. House '40	Cornelius J. Pings '51
Douglas Josephson '65	Fred A. Wheeler '29
	Stanley T. Wolfberg '38
Secretary Emeritus: Donald S. Clark '29	Treasurer Emeritus John R. Fee '51

EXECUTIVE DIRECTOR
James B. Black

ALUMNI CHAPTER OFFICERS

BOSTON CHAPTER	
President	Duane Marshall '53 9 Hadley Road, Lexington, Mass. 02173
CHICAGO CHAPTER	
President	Howard E. Jessen '46 225 Ridge Ave., Winnetka, Ill. 60093
NEW YORK CHAPTER	
President	Kaytaro G. Sugahara '61 111 Cobb Lane, Tarrytown, New York 10591
Vice President	Delbert C. McCune '56 Boyce Thompson Institute, 1086 North Broadway, Yonkers, New York 10701
Secretary-Treasurer	Harry J. Moore, Jr. '48 IBM Corp., Route 22, Armonk, New York 10504
SACRAMENTO CHAPTER	
President	William D. Pyle '49 3920 Dunster Way, Sacramento, Calif. 95825
Vice President	Dudley E. Bennett '47 4124 Zephyr Way, Sacramento, Calif. 95821
Secretary-Treasurer	Harris K. Mauzy '30 2551 Carson Way, Sacramento, Calif. 95821
Meetings: University Club, 917 "H" St. Luncheon second Friday of each month at noon. Visiting alumni cordially invited—no reservations.	
SAN DIEGO CHAPTER	
President	David B. Wilford '48 6581 Avenida Wilfredo, La Jolla, Calif. 92037
SAN FRANCISCO CHAPTER	
President	Charles E. Auerbach '47 82 Lagoon Rd., Belvedere, Calif. 94920
Vice President	Thomas M. Menzies '65 801 Cotton, Menlo Park, Calif. 94025
Secretary-Treasurer	Robert T. Jenkins '65 1191 Yorkshire Ct., Cupertino, Calif. 95014
Meetings: Engineers' Club, 16th floor, Hong Kong Bank Bldg., San Francisco. Informal luncheons every Thursday at 11:45 A.M. Contact Mr. Sigworth, 894-2918, on Thursday morning for reservations.	
SAN JOAQUIN-MOJAVE CHAPTER	
President	Bruce Robinson, Jr. '50 3219 Christmas Tree Lane, Bakersfield, Calif. 93306
Secretary-Treasurer	William F. Edmondson '52 1831 Truxton, Bakersfield, Calif. 93306
WASHINGTON, D.C., CHAPTER	
President	Bernard B. Watson '35 Research Analysis Corp., McLean, Va. 22101
Vice President	John T. Cookson, Jr. '66 1225 Noyes Dr., Silver Springs, Md. 20910
Secretary-Treasurer	Edwin C. James '71 6111 Temple St., Bethesda, Md. 20034

Placement Assistance
To Caltech Alumni

The Caltech Placement Service may be of assistance to you in one of the following ways:
(1) Help you when you become unemployed or need to change employment.
(2) Inform you of possible opportunities from time to time.
This service is provided to alumni by the Institute. A fee or charge is not involved. If you wish to avail yourself of this service, fill in and mail the following form to:
Caltech Placement Service
California Institute of Technology
Pasadena, California 91109
Please send me: (Check one)
☐ An application for placement assistance
☐ A form indicating a desire to keep watch for opportunities although I am not contemplating a change.

Name

Degree(s) Year(s)

Address

.....



W. Morton Jacobs, BS '28 (left), president of the Caltech Associates, who retired this month as chairman of the board and chief executive officer of the Southern California Gas Company, receives Los Angeles County scroll of appreciation from Supervisor Kenneth Hahn.