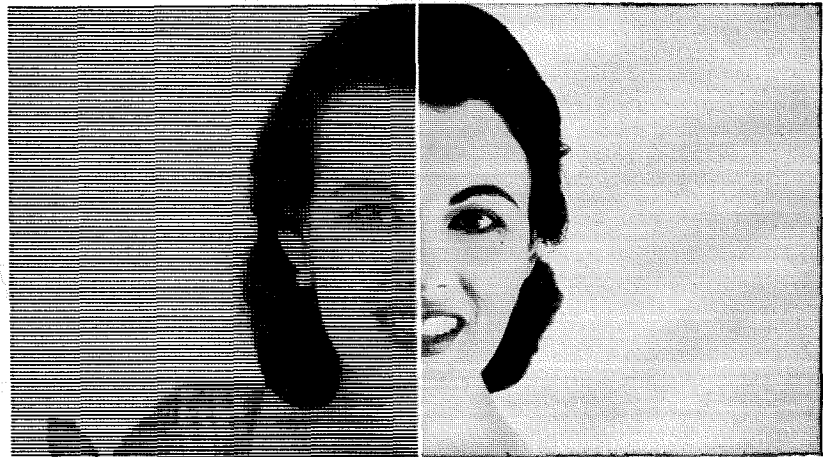


Lost Alumni

The Institute has no record of the present addresses of these alumni. If you know the current address of any of these men, please contact the Alumni Office, Caltech.

- | | |
|--|---|
| <p>1906
Norton, Frank E.</p> <p>1911
Lewis, Stanley M.</p> <p>1921
Fletcher, Harold O.</p> <p>1922
Cox, Edwin P.</p> <p>1923
Hickey, George I.
Skinner, Richmond H.</p> <p>1924
McKaig, Archibald
Mercereau, James T.
Tracy, Willard H.</p> <p>1925
Bailey, Emerson</p> <p>1926
Chang, Hung-Yuan
McCarte, Kenneth C.
Yang, Kai Jin</p> <p>1927
Evjen, Haakon M.
Langer, R. Meyer</p> <p>1928
Chou, P'ei-Yuan
Hicks, Hervey C.
Martin, Francis C.
Smith, Hampton</p> <p>1929
Briggs, Thomas H., Jr.
Burns, Martin C.
Gilmore, Albert M.
Nagashi, Masahiro H.
Nelson, Julius
Robinson, True W.
Sandberg, Edward C.
Wolfe, Karl M.</p> <p>1930
Chao, Chung-Yao
Douglass, Paul W.
Janssen, Philip
Moyers, Frank N.
Shields, John C.
White, Dudley</p> <p>1931
Hall, Marvin W.
Ho, Tseng-Loh
Voak, Alfred S.
West, William T.
Woo, Sho-Chow
Yoshoka, Carl K.</p> <p>1932
Patterson, J. W.
Schroder, L. D.
Watson, George G.
Wright, Lowell J.</p> <p>1933
Applegate, Lindsay M.
Ashton, W. Andrew
Ayers, John K.
Downie, Arthur J.
Hsu, Chuen Chang
Koch, A. Arthur
Larsen, William A.
Lockhart, E. Ray
Michal, Edwin B.</p> | <p>Murdock, Keith A.
Rice, Winston H.
Shappell, Maple D.
Smith, Warren H.
Solomon, Hyman</p> <p>1934
Harshberger, John D.
Liu, Yun Pu
Lutes, David W.
Radford, James C.
Read, John</p> <p>1935
Becker, Leon
Ehrenberg, Gustave, Jr.
Huang, Fun-Chang
Kitusda, Kaname
McNeal, Don
Obatake, Tanemi</p> <p>1936
Chu, Djen-Yuen
Creal, Albert
Dunn, Clarence L.
Isham, Arthur E. III
Kelch, Maxwell
Kurihara, Hisayuki
Ohashi, George Y.
Onaka, Takeji</p> <p>1937
Axelrod, Joseph
Bell, Willard N.
Burnight, Thomas R.
Chen, Ju-Yung
Easton, Anthony
Jones, Paul F.
Lotzkar, Harry
Maginnis, Jack
Moore, Charles K.
Munier, Alfred E.
Nojima, Noble
Penn, William L., Jr.
Rechif, Frank A.
Servet, Abdurahim
Shaw, Thomas N.</p> <p>1938
Gershohn, Morris
Goodman, Hyman D.
Hayward, Russell E.
Kanemitsu, Sunao
Lowe, Frank C.
Ofsthun, Sidney A.
Okun, Daniel A.
Tilker, Paul O.
Tsao, Chi-Cheng
Velazquez, Jose L.
Wang, Tsun-Kuei
Watson, James W.</p> <p>1939
Asakawa, George
Brown, William L.
Easton, R. Loyal
Fan, Hsu Tsi
Goodin, Harry A., Jr.
Hopper, Richard H.
Liang, Carr Chia-Chang
Neal, Wilson H.
Robertson, Francis A.
Tatom, John F.
Tsien, Hsue-shen</p> <p>1940
Batu, Buhtar
Green, William J.
Hsu, Chang-Pen
Menis, Luigi</p> |
|--|---|

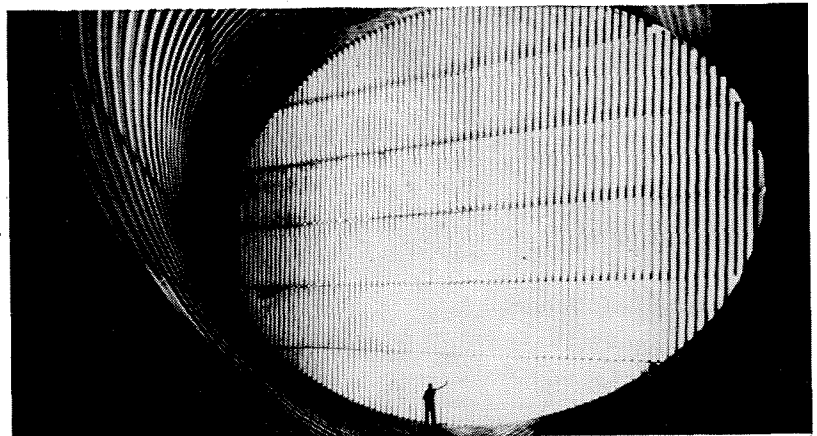
Project \$728-6



WESTINGHOUSE RESEARCH WILL LEAD TO LARGER, CLEARER TV SCREENS
Big TV screens magnify distracting black and white horizontal lines. Westinghouse engineers have developed a new technique to reduce the black lines and clarify white lines which give picture information. When available, the new process will make possible bigger TV screens, more and clearer picture detail.

YOU CAN BE SURE ... IF IT'S Westinghouse

Project \$112-2



WESTINGHOUSE DESIGNED MOTORS AND COMPRESSORS FOR WORLD'S MOST POWERFUL WIND TUNNEL

This propulsion wind tunnel will test jet engines, aircraft and guided missiles in winds up to 38 times hurricane force. Largest of its type ever built, it is located at the U.S. Air Force Arnold Engineering Development Center,* Tullahoma, Tennessee. The synchronous motors and compressors that produce this gigantic air flow are the largest in the world ... designed and built by Westinghouse.

*U.S.A.F. Air Research & Development Command

YOU CAN BE SURE ... IF IT'S Westinghouse

Lost Alumni . . . continued

Paul, Ralph G.
Payne, Charles M.
Tao, Shih Chen
Tajima, Yuji A.
Ustel, Sabih A.
Wang, Tsung-Su

1941

Arnold, John K.
Blake, Charles L.
Clark, Morris R.
Dieter, Darrell W.
Easley, Samuel J.
Feeley, John M.
Frank-Jones, Glyn
Geitz, Robert C.
Green, Jerome
Harvey, Donald L.
Hubbard, Jack M.
Kuo, I. Cheng
Robinson, Frederick G.
Standridge, Clyde T.
Stephenson, William B.
Taylor, D. Francis
Tiemann, Cordes F.
Waigand, LeRoy G.
White, John R.
Whitfield, Hervey H.
Yui, En-Ying

1942

Bebe, Mehmet F.
Callaway, William F.
Chastain, Alexander
Go, Chong-Hu
Hughes, Vernon W.
Levin, Daniel
MacKenzie, Robert E.
Martinez, Victor H.
Sternberg, Joseph

1943

Angel, Edgar P.
Belmont, Arthur D.
Bethel, Horace L.
Bridgland, Edgar P.
Bryant, Eschol A.
Burlington, William J.
Carlson, Arthur V.
Colvin, James H.
Daniels, Glenn E.
Hamilton, William M.
Hewson, Lawrence
Hillyard, Roy L.
Hilsenrod, Arthur
Johnsen, Edwin G.
King, Edward G.
Koch, Robert H.
Kong, Robert W.
LaForge, Gene R.
Lee, Edwin S., Jr.
Leeds, William L.
Ling, Shih-Sang
Lobban, William A.
Lundquist, Roland E.
Mampell, Klaus
McNeil, Raymond F.
Mixsell, Joseph W.
Neuschwander, Leo Z.
Nesley, William L.
Mowery, Irl H., Jr.
Newton, Everett C.
O'Brien, Robert E.
Patterson, Charles M.
Pearson, John E.
Rambo, Lewis
Roberts, Fred B.
Rivers, Naim E.
Rupert, James W., Jr.
Scholz, Dan R.
Shannon, Leslie A.
Smitherman, Thomas B.
Stewart, John T. D.
Tindle, Albert W., Jr.
Vicente, Ernesto
Washburn, Courtland L.

Walsh, Joseph R.
Wood, Stanley G.

1944

Alpah, Rasit H.
Baranowski, John J.
Barriga, Francisco D.
Bell, William E.
Benjamin, Donald G.
Berkant, Mehmet N.
Birluk, Ertugrul
Burch, Joseph E.
Burke, William G.
De Medeiros, Carlos A.
Feblowicz, Ernst A.
Fu, Ch'eng Yi
Gray, J. Doyle
Harrison, Charles P.
Hu, Ning
Johnson, William M.
Kern, Jack C., Jr.
Labanauskas, Paul J.
Leenerts, Lester O.
Marshall, John W.
Nicholson, James C.
Pi, Te-Hsien
Sakamoto, Arthur
Shults, Mayo G.
Taylor, Garland S.
Sullivan, Richard B.
Sunalp, Halit
Stanford, Harry W.
Stein, Roberto L.
Trimble, William M.
Unayral, Nustafa
Wadsworth, Jos. F., Jr.
Williams, Robert S.
Wolf, Paul L.
Wood, George M.
Writt, John J.
Yik, George

1945

Ari, Victor A.
Bunze, Harry F.
Gibson, Charles E.
Jenkins, Robert P.
Kuo, Yung-Huai
Romney, Carl F.
Tseu, Payson S.

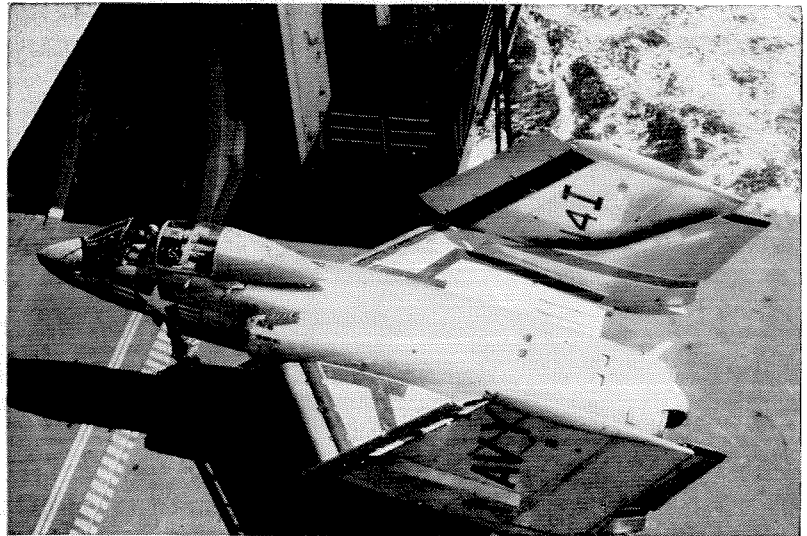
1946

Allison, Charles W., Jr.
Barber, John H.
Burger, Glenn W.
Conrad, Robert H.
Davis, Donovan C.
Dethier, Bernard
Dyson, Jerome P.
Esner, David R.
Foster, R. Bruce
Hayne, Benjamin S., III
Hege, Douglas W.
Hoffman, Charles C.
Kempton, Calvin E.
KeYuan, Chen
Lang, Serge
Lewis, Frederick W.
Lowery, Robert H.
MacDonald, Norman J.
Maxwell, Frederick W.
Prasad, K. V. Krishna
Simmons, George F.
Sledge, Edward C.
Smith, Harvey F.
Tung, Yu-Sin
Uberoi, Mahinder S.
Weldon, Thomas F.
Weitzenfeld, Daniel K.

1947

Atencio, Adolfo J.
Clements, Robert E.
Clock, Raymond M.
Dagnall, Brian D.
Darling, Donald A.

Project W428-3



WESTINGHOUSE BUILT WORLD'S LARGEST ELEVATORS

The U.S.S. *Forrestal's* four deck-edge elevators can deliver four 70,000-lb. jet bombers from hangar deck to flight deck in seconds . . . smoothly without even a jar. Deck-edge elevators were pioneered by Westinghouse.

YOU CAN BE SURE . . . IF IT'S Westinghouse

Project B517-8



WESTINGHOUSE BUILDS BOMBER DEFENSE SYSTEM THAT CAN SELECT MOST DANGEROUS ATTACKER, AIM AND FIRE AUTOMATICALLY

Two tail guns controlled by a Westinghouse developed electronic system make up the defensive armament of the Navy's A3D. A radar scanner spots the most dangerous attacking aircraft. A computer determines its speed and angle of approach . . . then aims the guns and signals the gunner to fire or it fires automatically. The guns then instantly swing to the next target.

YOU CAN BE SURE . . . IF IT'S Westinghouse

Lost Alumni . . . continued

Hsu, Chi-Nan
Hsueh, Chi-Hsun
Huang, Ea-Qua
Leo, Fiorello R.
MacAlister, Robert S.
Manning, Ordway T.
McClellan, Thomas R.
Miller, Curtis E.
Molloy, Michael K.
Monoukian, John
Moorehead, Basil E. A.
Nelson, Conrad N.
Nevis, Arnold H.
Orr, John L.
Sappington, Merrill H.
Terminal, Ramon S.
Vanden Heuvel, Geo. R.
Van Dyke, Milton D.
Wan, Pao Kang
Wellman, Alonzo H., Jr.
Ying, Lai-Chao

1948

Agnew, Haddon W.
Bingham, Andrew T.
Blue, Douglas K.
Browne, Charles I., Jr.
Bunce, James A.
Collins, Burgess F.
Crawford, William D.
Garber, Max
Hager, James W.
Hlavka, George E.
Holm, John D.
Hsiao, Chien
Hsieh, Chia Lin
Latson, Harvey H., Jr.
Leavenworth, C. D.
Mason, Herman A.
McCollam, Albert E.
Morehouse, Gilbert C.
Oliver, Edward D.
Rhynard, Wayne E.
Robinson, Martin S.
Swain, John Sabin
Swank, Robert K.
Walters, James W., Jr.
Winniford, Robert S.
Woods, Marion C.
Yanak, Joseph D.

1949

Barker, Edwin F., Jr.
Bauman, John L., Jr.
Baumann, Laurence I.
Clancy, Albert H., Jr.
Clendening, Herbert C.
Cooper, Harold D.
Dannan, John H.
Foster, Francis C.
Galstan, Robert H.
Heiman, Jarvin R.
Krasin, Fred E.
Laberge, Jerome G.
Lowrey, Richard O.
MacKinnon, Neil A.
McElligott, Richard H.
Merrell, Richard L.
Orne, Eric C.
Petty, Charles C.
Ringness, William M.
Rudin, Marvin B.
Stappler, Robert F.
Weiss, Mitchell
Yi, Sien-Chiue

1950

Bryan, William C.
Hendrickson, James B.
Knoepfler, Peter T.
Li, Chung Hsien
McDaniel, Edward F.
McMillan, Robert
Nelson, Robert C.
Pao, Wen Kwe
Paulson, Robert W.

Petzold, Robert F.
Roberts, Morton S.
Roddick, James A.
Scherer, Lee R., Jr.
Schneider, William P.
Vivian, James A.

1951

Arosemena, Ricardo M.
Brewer, Richard G.
Chong, Kwok-Ying
Davison, Walter F.
Denton, James O.
Goerke, Rudolph J., III
Hawk, Riddell L.
Lafdjian, Jacob P.
Li, Cheng-Wu
Padgett, Joseph E., Jr.
Palmer, John M., Jr.
Pfeiffer, Walter F.
Summers, Allen J.
Taylor, Richard B.

1952

Abbott, John R.
Arcoulis, Elias G.
Baugher, John D.
Cook, Samuel P.
Edelson, Leon
Gerington, Thomas E.
Guess, Arnold W.
Jepson, James O.
Loftus, Joseph F.
Long, Ralph F.
Lunday, Adrian C.
O'Brien, Joseph
Price, Edgar P.
Primbs, Charles L.
Robieux, Jean
Schaufele, Roger D.
Shelly, Thomas L.
Weber, Ernesto J.
Wiberg, Edgar
Woods, Joseph F.
Zacha, Richard B.

1953

Appleman, Daniel E.
Clark, David J.
Fink, George B.
Helmkamp, George K.
Lennox, Stuart G.
Mishaan, Alberto
Morishita, Naoji
Twining, David S.
Vidal, Jean L.

1954

Jimenez, Herberto
Kerr, William E.
Mertz, Charles, III
Quiel, Norwald R.
Sargent, Howard L., Jr.

1955

Crowe, Thomas H.
Hamzawi, Hashim H.
Moore, William T.
Muraru, Vasile

1956

Bradford, Robert E.
Herzog, Robert T.
Hsu, Nan-Teh
Nomicos, George N.
Spence, William N.

1957

Breitbart, Gary Y.
Stiffler, Jack J.
Tennant, Terrance H.
Yount, David E.

1958

Grell, Ellsworth H.
Schenter, Robert E.
Zeilenga, Jack H.

WESTINGHOUSE IS THE BEST PLACE FOR TALENTED ENGINEERS

There's a wide variety of engineering and scientific work for the able engineer at Westinghouse. The brief stories told in the preceding advertisements only scratch the surface. A hundred or more other activities, each as interesting, also demand the services of really talented engineers. This *diversity of opportunity* is one of the biggest reasons for choosing Westinghouse.

There's still another factor to be considered. At Westinghouse, you'll find the *right kind of climate for solid professional growth*. The only limits to how much a man can add to his knowledge and stature are his own ability, ambition, and determination. The creative individual can benefit substantially from one of industry's most liberal invention award programs, and the man who seeks more knowledge will find the opportunity to do so. Since 1927, Westinghouse has recognized the positive value of encouraging self-development.

Incoming college graduates are enrolled in the Student Training Course, a well-integrated program providing assignments in many operating divisions; each man finds the type of work best suited for him. Thereafter, the opportunities for further study are dependent upon the kind of career you want.

For those desiring a TECHNICAL career:

GRADUATE STUDY PROGRAM—For graduates of engineering or the physical sciences, Westinghouse offers a Graduate Study program leading to M.S. or Ph. D. degrees. This plan offers the qualified individual an opportunity to pursue further graduate work in conjunction with his regular job.

ADVANCED DESIGN COURSE—This full-time four-month Westinghouse program, held at the University of Pittsburgh, is offered to selected engineering and physical science graduates who demonstrate unusual aptitude in research, design, or development work.

ADVANCED MECHANICS PROGRAM—For selected mechanical engineers, Westinghouse, each year, offers a full-time fifteen-month graduate program in advanced mechanics at the Research Laboratory in Pittsburgh. Classroom work is held at the University of Pittsburgh, and all of it is creditable toward an M.S. degree.

HONORS GRADUATE PROGRAM—For a limited number of selected men, Westinghouse has a released-time graduate study program aimed at the fulfillment of requirements for Ph. D. degrees.

B. G. LAMME FELLOWSHIPS—Based upon a yearly competition among outstanding men who are under 35 but who have been with the Corporation at least five years, Westinghouse awards B. G. Lamme Fellowships for one year's full-time graduate work on stipend and salary allowance with all tuition and transportation expenses paid.

For those desiring a MANAGEMENT career:

BUSINESS & MANAGEMENT PROGRAMS—These are programs of business courses at nine different universities for mature men in business, particularly graduates in engineering and the sciences, who have not majored in business administration.

MANAGEMENT DEVELOPMENT PROGRAM—This program provides position rotation for more breadth of experience, participation in advanced management schools for more senior professional employees, and in-company specialized courses for the development of executive talents.

If you're interested in more information about these programs at Westinghouse, write to Mr. L. H. Noggle, Westinghouse Educational Department, Ardmore and Brinton Roads, Pittsburgh 21, Pa.

YOU CAN BE SURE... IF IT'S

Westinghouse

WATCH "WESTINGHOUSE LUCILLE BALL-DESI ARNAZ SHOWS"
CBS TV MONDAYS