

# When is an Engineer a Portrait Painter



The answer is ALWAYS. His whole professional life is involved with sketching, drawing, drafting and rendering pictures of his ideas.

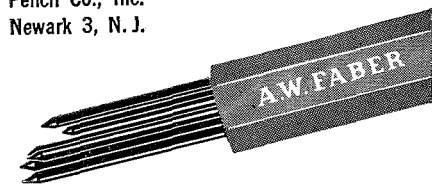
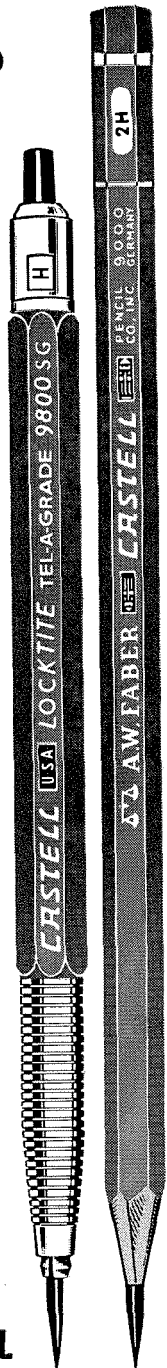
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# Lost Alumni

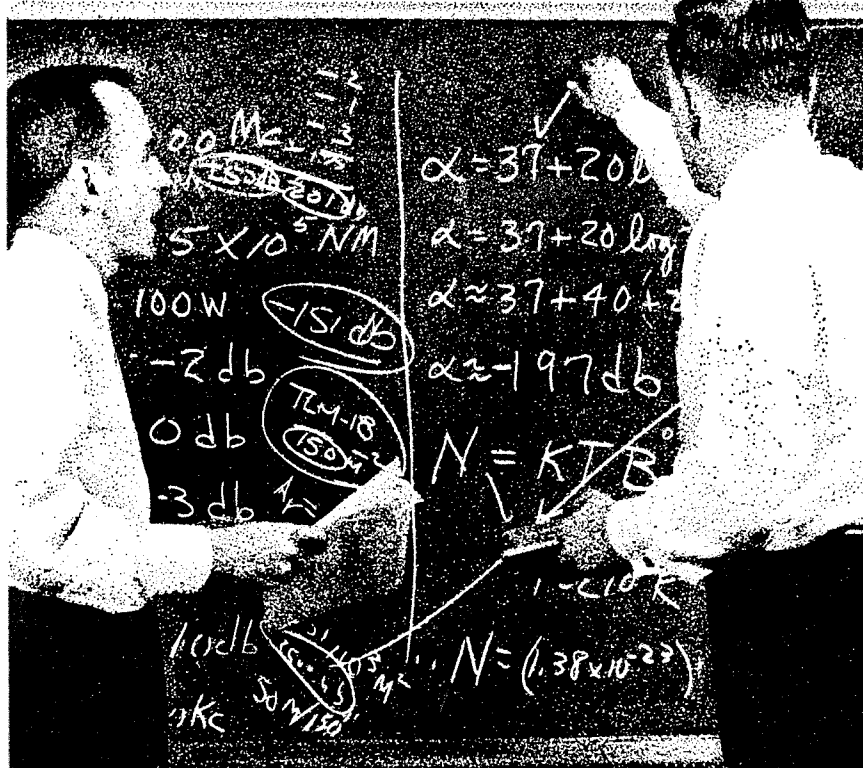
The Institute has no record of the present addresses of these alumni. If you know the current address of any of these men, please contact the Alumni Office, Caltech.

- |  |  |   |   |
|--|--|---|---|
| 1906<br>Norton, Frank E.   | Lockhart, E. Ray<br>Michal, Edwin B.<br>Murdock, Keith A.<br>Shappell, Maple D.<br>Smith, Warren H.  | 1942<br>Bebe, Mehmet F.<br>Callaway, William F.<br>Devault, Robert T.<br>Emre, Orhan M.<br>Go, Chong-Hu<br>Hughes, Vernon W.<br>Johnston, William C.<br>Levin, Daniel<br>MacKenzie, Robert E.<br>Martinez, Victor H.<br>Proctor, Warren G.  | Budney, George S.<br>Bunze, Harry F.<br>Clementson, Gerhardt C.<br>Dixon, Thomas F.<br>Fanz, Martin C.<br>Fox, Harrison W.<br>Gibson, Charles E.<br>Grossling, Bernardo F.<br>Jenkins, Robert P.<br>Knapp, Norman E.<br>Kuo, Yung-Huai<br>Levy, Charles N.<br>Tseu, Payson S.<br>Yank, Frank A.   |
| 1907<br>Miller, James C., Jr.  | 1934<br>Harshberger, John D.<br>Liu, Yun Pu  | 1943<br>Angel, Edgar Penfield<br>Anspach, Kenneth E.<br>Bridgland, Edgar P.<br>Brown, James M.<br>Bryant, Eschol Alonzo<br>Burlington, William J.<br>Burnight, Thomas R.<br>Carlson, Arthur V.<br>Colvin, James Henry<br>Eaton, Warren V., Jr.<br>Gaffney, Thomas Alfred<br>Gould, Jack E.<br>Hamilton, William M.<br>Johnsen, Edwin G.<br>King, Edward Gerard<br>Koch, Robert Hal<br>Kong, Robert Wah<br>LaForge, Gene R.<br>Lee, Edwin S., Jr.<br>Leeds, William Lodowick<br>Ling, Shih-Sang<br>Lobban, William A.<br>Lundquist, Roland Edwin<br>McNeil, Raymond F.<br>Mixwell, Joseph W.<br>Mowery, Irl Holden, Jr.<br>Nesley, William Lewis<br>O'Brien, Robert Edward<br>Patterson, Charles Meade<br>Pearson, John Edwin<br>Rambo, Lewis<br>Scholz, Dan R.<br>Shannon, Leslie Arthur<br>Smitherman, Thomas B.<br>Tindle, Albert Wiley, Jr.<br>Vicente, Ernesto<br>Walsh, Joseph Russell<br>Washburn, Courtland L.<br>Wood, Stanley G. | 1946<br>Allison, Charles W.<br>Austin, Benjamin<br>Barber, John H.<br>Behroon, Khosrow<br>Bowen, Mark E.<br>Burger, Glenn W.<br>Dethier, Bernard<br>Dyson, Jerome Packard<br>Esner, David R.<br>Foster, R. Bruce<br>Gould, Edwin S.<br>Halvorson, George G.<br>Hoffman, Charles C.<br>Huestis, Gerald S.<br>Ingram, John S.<br>Ingram, Wilbur A.<br>KeYuan, Chen<br>Lewis, Frederick J.<br>Lowery, Robert H.<br>Maxwell, Frederick W.<br>Miller, Jack N.<br>Olson, Leslie R.<br>Parker, James F.<br>Prasad, K. V. Krishna<br>Rice, Jerry H.<br>Salbach, Carl K.<br>Shepard, Elmer R.<br>Simmons, George F.<br>Sledge, Edward C.<br>Smith, Harvey F.<br>Stephenson, Robert E.<br>Webb, Milton G.<br>Winson, Jonathan   |
| 1911<br>Lewis, Stanley M.  | 1935<br>Huang, Fun-Chang<br>McCoy, Howard M.<br>McNeal, Don  | 1944<br>Alpan, Rasit H.<br>Baranowski, John J.<br>Barriga, Francisco D.<br>Bell, William E.<br>Benjamin, Donald G.<br>Berkant, Mehmet A.<br>Bertram, Edward A.<br>Birlik, Ertugrul<br>Burch, Joseph E.<br>Burke, William G.<br>Cebeci, Ahmed<br>Cooke, Charles M.<br>De Medeiros, Carlos A.<br>Fu, Ch'eng Yi<br>Harrison, Charles P.<br>Hu, Ning<br>Johnson, William M.<br>Labanuskas, Paul Julius<br>Leenerts, Lester O.<br>Lin, Chia-Chiao<br>Marshall, John W.<br>Mattinson, Carl O.<br>Onstad, Merrill E.<br>Pi, Te-Tsien<br>Pischel, Eugene F.<br>Rutland, David F.<br>Shults, Mayo G.<br>Stanford, Harry W.<br>Stein, Roberto L.<br>Sullivan, Richard B.<br>Trimble, William M.<br>Unayral, Mustafa A.<br>Wadsworth, Joseph F., Jr.<br>Wight, D. Roger<br>Williams, Robert S.<br>Wolf, Paul L.<br>Writt, John J.<br>Yik, George   | 1947<br>Asher, Roland S.<br>Atencio, Adolfo J.<br>Clarke, Fredric B.<br>Clements, Robert E.<br>Collins, Hugh H.<br>Dagnall, Brian D.<br>Darling, Donald A.<br>Darling Rodney O.<br>Froelich, Jack E.<br>Flanders, Edward A.<br>Hammerle, William G.<br>Heppe, Ralph R.<br>Huang, Ea-Qua<br>Lane, James F.<br>Leo, Fiorello R.<br>Lim, Vicente H., Jr.<br>Lyon, George W.<br>MacAlister, Robert S.<br>Manoukian, John<br>McClellan, Thomas R.<br>Molloy, Michael K.<br>Moorehead, Basil<br>Olson, Raymond L.<br>Orr, John L.<br>Ramaswamy, Guruvayur S.<br>Rust, Clayton A.<br>Sanders, Lewis B.<br>Sappington, Merrill H.<br>Schroeder, Henry W.<br>Thompson, Russell A., Jr.<br>Torgerson, Warren S.<br>Wan, Pao Kang<br>Wellman, Alonzo H., Jr.<br>Wimberly, Clifford M.<br>Winters, Edward B., Jr.<br>Ying, Lai-Chao |
| 1915<br>Soyster, Charles J.  | 1918<br>Lavagnino, John F.   | 1936<br>Chu, Djen-Yuen<br>Kelch, Maxwell<br>Nelson, Loyal E.<br>Van Riper, Dale H.  | 1948<br>Agnew, Haddon W.<br>Bunce, James A.<br>Clark, Albert R.<br>Collins, Burgess F.<br>Cotton, Mitchell L.<br>Crawford, William D.   |
| 1921<br>Arnold, Jesse  | 1922<br>Cox, Edwin P.<br>Cronin, John A.<br>Rose, Edwin L.   | 1937<br>Becker, Robert A.<br>Cheng, Ju-Yung<br>Easton, Anthony<br>Fan, Hsu Tsi<br>Jones, Paul F.<br>Lotzkar, Harry<br>Maginnis, Jack<br>Munier, Alfred E.<br>Odell, Raymond H.<br>Penn, William Lee, Jr.<br>Servet, Abdurrahim<br>Shaw, Thomas N.<br>Wylie, Jean  |   |
| 1923<br>Hickey, George I.<br>Neil, W. Harvey<br>Skinner, Richmond H.   | 1924<br>Henderson, William G.<br>Stearns, Charles F.<br>Tracy, Willard H.<br>Young, David R.   | 1938<br>Ackerman, John B.<br>Gershohn, Morris<br>Goodman, Hyman D.<br>Gross, Arthur G.<br>Kanemitsu, Sunao<br>Lentz, John Jacob<br>Lowe, Frank Clare<br>Rhett, William<br>Tilker, Paul Owen<br>Wang, Tsun-Kuei<br>Watson, James W.<br>Woodbury, William W.  |   |
| 1925<br>Schlierbach, Louis T.  | 1926<br>Chang, Hung-Yuan<br>Kingsbury, William S., Jr.<br>McCarter, Kenneth C.<br>Yang, Kai Jin  | 1939<br>Aime, Edgar A.<br>Brown, William Lowe<br>Gombotz, Joseph I.<br>Hsueh, Chao-Wang<br>Jackson, Andrew M., Jr.<br>Oakley, Spencer W.<br>Townes, Charles H.<br>Tsiens, Hsue-shen<br>Weinstein, Joseph<br>Wilson, Harry D.  |   |
| 1927<br>Evjen, Haakon M.<br>Riggs, Eugene H.   | 1928<br>Chou, P'ei-Yuan<br>Martin, Francis Crawford<br>Morgan, Stanley C.<br>Wingfield, Baker  | 1940<br>Abraham, Lewis<br>Batu, Buhtar<br>Compton, Arthur M.<br>Gentner, William E.<br>Gibson, Arville C.<br>Green, William Jeffrey<br>Hsu, Chang-Pen<br>Karubian, Ruhollah<br>Lovoff, Adolph<br>Menis, Luigi<br>Paul, Ralph G.<br>Tao, Shih Chen<br>Torrey, Preston C.<br>Wang, Tsung-Su   |   |
| 1929<br>Briggs, Thomas H., Jr.<br>Burns, Martin C.<br>Lynn, Laurence E.<br>Nelson, Julius<br>Robinson, True W.<br>Wolfe, Karl M. | 1930<br>Allison, Donald K.<br>Chao, Chung-Yao<br>Douglass, Paul W., Sr.<br>Forney, Morgan T.<br>Janssen, Philip<br>Mason, Harry S., Jr.<br>Moyers, Frank N.<br>Shields, John C.<br>White, Dudley | 1941<br>Clark, Morris R.<br>Dieter, Darrell W.<br>Easley, Samuel J.<br>Geitz, Robert C.<br>Gould, Martin<br>Hardenbergh, George A.<br>Harvey, Donald L.<br>Hubbard, Jack M.<br>Noland, Robert L.<br>Robinson, Frederick G.<br>Standridge, Clyde T.<br>Taylor, D. Francis<br>Tiemann, Cordes F.<br>Vaughan, Richard<br>Wolfe, Samuel<br>Yui, En-Ying   |   |
| 1931<br>Hall, Marvin W.<br>Ho, Tseng-Loh<br>Oaks, Robert M.<br>Voak, Alfred S.<br>West, William T.<br>Yoshicka, Carl K.          | 1932<br>Brass, P. D.<br>Patterson, J. W.<br>Schroeder, L. D.<br>Schultz, William F.<br>Wright, Lowell J.   | 1941<br>Clark, Morris R.<br>Dieter, Darrell W.<br>Easley, Samuel J.<br>Geitz, Robert C.<br>Gould, Martin<br>Hardenbergh, George A.<br>Harvey, Donald L.<br>Hubbard, Jack M.<br>Noland, Robert L.<br>Robinson, Frederick G.<br>Standridge, Clyde T.<br>Taylor, D. Francis<br>Tiemann, Cordes F.<br>Vaughan, Richard<br>Wolfe, Samuel<br>Yui, En-Ying   |   |
| 1933<br>Andes, Ammon S.<br>Applegate, Lindsay M.<br>Downie, Arthur J.<br>Koch, A. Arthur<br>Larsen, William A.                   |  | 1945<br>Ari, Victor A.<br>Bryner, Dean L.   |   |

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- Herold, Henry L.  
Holm, John D.  
Hsieh, Chia Lin  
Hsiao, Chien  
Lambert, Peter C.  
Latson, Harvey H., Jr.  
Lawton, G.  
Leavenworth, Cameron D.  
Mason, Herman A.  
Mooney, Harold M.  
Oliver, Edward D.  
Rhyndar, Wayne E.  
Stein, Paul G.  
Swain, John Sabin  
Voelker, William H.  
Wenick, Robert L.  
Winniford, Robert S.  
Woods, Marion C.  
Wray, Robert M.  
Yanak, Joseph D.
- 1949  
Abramovitz, Marvin  
Barker, Edwin F., Jr.  
Bauman, John L., Jr.  
Baumann, Laurence I.  
Bottenberg, William R.  
Brown, John R.  
Bryan, Whaton W.  
Burkholder, Joseph F.  
Clancy, Albert H., Jr.  
Clendening, Herbert C.  
Cooper, Harold D.  
Felt, Gaelen L.  
Foster, Francis C.  
Galstan, Robert H.  
Gilkeson, Fillmore B.  
Hardy, Donald J.  
Heiman, Jarvin R.  
Hylton, Frank G.  
Krasin, Fred E.  
Leroux, Pierre J.  
Lowrey, Richard O.  
MacKinnon, Neil A.  
McElligott, Richard L.  
Merrell, Richard L.  
Parker, Dan M.  
Rinehard, Marion C.  
Ringness, William M.  
Saari, Albert E.  
Sinker, Robert A.  
Stappler, Robert F.  
Weiss, Mitchell  
Wilkening, John W.  
Yu, Sien-Chiue
- 1950  
Bryan, William C.  
Edelstein, Leonard  
Gimpel, Donald J.  
Honda, Shigeru Irwin  
Li, Chung Hsien  
McDaniel, Edward Foy  
McMillan, Robert  
Montemezzi, Marco A.  
Paulson, Robert W.  
Petzold, Robert F.  
Scherer, Lee R., Jr.  
Soldate, Albert M.  
Whitehill, Norris D.  
Wong, Calvin
- 1951  
Arosemena, Ricardo M.  
Chong, Kwok-Ying  
Davison, Walter F.  
Denton, James O.  
Goodell, Howard C.  
Hawk, Riddell L.  
Laidjian, Jacob Parseh  
Li, Cheng-Wu  
Merkel, George  
Padgett, Joseph E., Jr.  
Palmer, John M., Jr.  
Pfeiffer, Walter F.  
Sjodin, Raymond A.  
Summers, Allan J.
- 1952  
Abbott, John R.  
Arcoulis, Elias G.  
Bucy, Smith V.  
Harrison, Marvin E.  
Helmuth, James G.  
Krause, Dale C.  
Loftus, Joseph F.  
Long, Ralph F.  
Lunday, Adrian C.  
Meyer, Robert F.  
Primbs, Charles L.  
Robieux, Jean  
Robison, William C.  
Schaufele, Roger D.  
Shelly, Thomas L.  
Sutton, Donald E.  
Wiberg, Edgar  
Van Hise, Albert Eugene  
Wilson, Howard E.  
Zacha, Richard B.
- 1953  
Asakawa, Takeo  
Daw, Edward H.  
Elliott, David D.  
Lennox, Stuart G.  
Pilant, Walter L.  
Ritter, Darrell L.  
Robbin, Morris A.  
Schroeder, Norman M.  
Vidal, Jean L.  
Wilburn, Norman P.
- 1954  
Billings, John T.  
Coughlin, John T., II  
Feuchtwang, Thomas E.  
Graves, Jack C.  
Guebert, Wesley R.  
Heiser, David A.  
Mertz, Charles, III  
Rogert, Berdine H.  
Seele, Gordon D.  
Sergeyevsky, Andrew  
Von Gerichten, Robert L.
- 1955  
Barmon, Mervyn, L.  
Bryan, George E.  
Campbell, Douglas E.  
Crowe, Thomas H.  
Gutierrez, Reinaldo V.  
Lim, Macrobio  
Negrette, Marco R.  
Roman, Basil P.  
Wolfe, John H.
- 1956  
Ames, Lionel E., Jr.  
Edwards, Robert W.  
Garnault, Andre F.  
Goldenberg, H. Mark  
McAllister, Don F.  
Morales, Daniel R.  
Spence, William N.  
Tang, Chung-Liang  
Truong, Tran N.  
Swindt, Joseph K.
- 1957  
Bloomberg, Howard W.  
Brust, David  
Howie, Archibald  
Kaulmann, Richard L.  
Landrieau, Marcel  
Leader, Elliot  
Poggi, Jean Charles  
Schwartz, Lowell M.  
Stark, Richard D.  
Stuteville, Joseph E.  
Wong, Chi-hsiang
- 1958  
Ackley, David A.  
Chang, Berken  
Donoho, Paul L.  
Dundzila, Antanas V.  
Jones, Laurence G.  
Kern, William M.  
Knight, Harold G.  
Lange, Gordon D.  
S-ffourri, Mohammad H.  
Wille, Milton G.
- 1959  
Bodine, Alan G.  
Bailey, John S.  
Byun, Chai B.  
Cribbs, Walter J.  
Guillemet, Michel P.  
Gustafson, Harold R.  
Idrias, Izzat, M.  
Monroe, Louis L.  
Weber, Walter V., Jr.
- 1960  
Baicher, Vladimir V.  
Farha, Norman S.  
Lindquist, David M.  
Mauger, Richard L.  
Meier, Karl L.  
Nearing, James C.  
Sawyer, Stanley  
Sorrell, Furman Yates  
Steinberg, Charles M.  
Williams, Allen D.
- 1961  
Schultz, Martin H.  
Siegel, Charles  
Richter, Rolf
- 1962  
Gretsky, Neil E.  
Lovell, Bruce A.  
Moeck, Edward O.