

715754

Questions for Oral Histories
Edward Alpen

PhD in pharmaceutical chemistry and pharmacology at UCSF, 1950
Assistant Professor of Pharmacology, George Washington U, 1950-51;
conducted research in metabolic fate of drugs and on the activity of
chemotherapeutic agents

- What was the nature of your research in the metabolic fate of drugs?
- What drugs were you using?
- Who did you do your research with?

Active duty as Lieutenant, Medical Service Corps, US Navy, assigned to
Naval Radiological Defense Lab as Scientific Investigator; carried out
research on the effects of thermal and ionizing radiations on living systems;
later did same as civilian employee (1951-1954)

- Who was involved in this research, and what was the chain of command?
- What studies were done, and for what purpose?
- What was the nature of the interactions between scientists who provided the isotopes for the studies and the researchers for the project, and who were they?

did include human subjects?
Any chelate work in exp.?
Coordination between exp. - still going on

Director of the Biophysics Branch of the U.S. Naval Radiological Defense Laboratory in San Francisco; research was devoted to effects of radiation on functional organ systems and was particularly concerned with the effects of neutron irradiation and other high ionization density radiations (1954-1958). Director of Biological and Medical Sciences Division; research related to radiation effects, including stress biology, aging, neurophysiology, psychology, biophysics, immunology, etc. Own research related to cell kinetics and kinetics of DNA replication.

Did work with stress / health
TJW is
lysis - should committee?

Research sponsored by Navy, Army, Air Force; Office of Civil Defense; NASA; AEC; ONR; Defense Atomic Support Agency; etc. (1958-1969)

- What were your responsibilities as director?
- What activities or projects were your staff engaged in?
- What institutes, labs, etc. did you particularly have contact with during this time?
- What involvement did your staff have with the distribution of isotopes?
- What collaborations did you have with other medical institutions?

How did you get involved with AEC

In 1969, Director of Pacific Northwest Division of Battelle Memorial Institute (medical facility for P.N., which has contract for Hanford), responsible for scientific research and development at research complex at Richland, Washington, the Marine Research Lab at Sequim Bay on the Olympic Peninsula, the Battelle Seattle Research Center, and the Human Affairs Research Centers in Seattle

Director of Donner Lab, 1975-?

- What were the major projects you oversaw as director of Donner Lab?
- What was the nature of your interaction with other institutions, DOE, etc?

3007068

Alpen p.2

Chairman, Biological Effects Advisory Panel, Bureau of Radiological Health, 1968-?

- What issues were discussed?
- What were the concerns of the advisory panel?
- Who else was on the panel?
- What decisions were made?

3087069

Alper

Rome, 1957. Tchr. Spanish Vassar Coll., 1957-59. Dir. documentary films for ICAIC, Cuba, 1959-61; films photographed include La Collectionneur, 1966. The Wild Child, 1969 (Best Photography award U.S. Assn. Film Critics), Claire's Kiss, 1970. The Story of Adele H. 1975. The Marquise of O. 1975. Madame Rosa, 1977. The Last Metro, 1980 (Best Photography award French Acad. Motion Picture Arts and Techniques), Days of Heaven, 1979 (Best Photography award Am. Acad. Motion Picture Arts and Scis., U.S. Assn. Film Critics), Kramer vs. Kramer, 1980. The Blue Lagoon, 1980. The Last Metro, 1981, Sophie's Choice, 1982 (Best Photography award N.Y. Film Critics), Pauline at the Beach, 1983. Confidentially Yours, 1984. Places in the Heart, 1984. Heartburn, 1986. co-producer, co-dir. documentary film Nobody Listened, 1988; author: A Man with a Camera, 1980; co-dir., co-writer: Improper Conduct, 1984. Decorated chevalier Order Arts and Letters, France, 1976. Mem. Am. Soc. Cinematographers.

ALMERS, WOLFHARD, physiology and biophysics educator; b. Helmstedt, W.Ger., May 29, 1943; came to U.S., 1966; s. Eberhard and Ute (Pfeiffer) A.; Hilary M. Taranbull, May 17, 1967; children: Mattias, Lucy, Student, Free U. Berlin, 1963-66; Duke U., 1966-69; Ph.D., U. Rochester, 1971. Tutor Churchill Coll., Cambridge U., Eng., 1972-73; research scientist Cambridge U., 1971-74; asst. prof. physiology biophysics U. Wash., Seattle, 1974-78, assoc. prof., 1978-82, prof., 1982-. Contr. articles to sci. journals; mem. editorial bd.; Jour. Physiology, 1981-. Am. Jour. Physiology, 1981-. NIH grantee, 1974-; Muscular Dystrophy Assn. grantee, 1981-84; Alexander von Humboldt award for U.S. scientists, 1984; Guggenheim fellow, 1984; recipient Merit award NIH, 1986. Mem. Soc. for Neurosci. Biophys. Soc., Physiol. Soc. Gt. Brit. Home: 825 35th Ave Seattle WA 98122 Office: Dept Physiology and Biophysics SJ-40 Seattle WA 98195

ALMGREN, FREDERICK JUSTIN, JR., mathematician; b. Birmingham, Ala., July 3, 1933; s. Frederick Justin and Sarah Cone (Wright) A.; m. Jean Elba Taylor, Oct. 6, 1973; children—Robert Frederick, Ann Stewart, Karen Taylor, B.S. in Engring, Princeton U., 1955; Ph.D. in Math, Brown U., 1962. Instr. math, Princeton U., N.J., 1962-63, asst. prof., 1965-68, assoc. prof., 1968-72, prof., 1972-; scholar Inst. Advanced Study, Princeton, 1963-65, 69, 74-75, 78, 81-82, 85; exchange visitor Steklov Math. Inst., Leningrad, USSR, 1970; vis. scholar Stanford U., 1989. Author: Plateau's Problem, 1964, other numerous articles to math. journals. Served with USN, 1955-58. Alfred P. Sloan fellow, 1968-70; Guggenheim Meml. fellow, 1974-75; NSF grantee, 1962-70. Mem. Am. Math. Soc., Math. Assn. Am., Soc. Indust. and Appl. Math., A.A.S. Home: 83 Riverside Dr Princeton NJ 08540 Office: Princeton U Dept Math Fine Hall Princeton NJ 08544

ALMGREN, HERBERT PHILIP, banker; b. Fairfield, Ala., Oct. 22, 1916; s. O. Philip and Lillie (Becker) A.; m. Jean R. Cleveland, June 10, 1939; children—Caroline C. (Mrs. Douglas N. Ellis Jr.), Nancy B. (Mrs. Robert A. Kilham), B.S. magna cum laude, Springfield Coll., 1938; postgrad., Columbia. Tchr. Ratory Sch., Pomfret, Conn., 1938-40; with Monarch Life Ins. Co. (and predecessor), 1940-63, v.p., 1958-63; with Shawmut First Bank & Trust Co. Hampden County, 1963-, s. v.p., 1964-65, pres., 1965-68, pres., chief exec. officer, 1968-79, chmn., chief exec. officer, 1979-81, ret., 1981, asst. dir.; bd. dirs. Am. Pad & Paper Co., Holyoke, Mass., Am. Pad Press, DuPont O'Connell's, Fast chmn. bd. Baystate Meml. Center corporator Springfield Boys Club, Springfield, Mass., Achievement Served to It. (G.) USNR, 1943-46. Mem. Nat. Bankers Assn. (former pres.), Greater Springfield C. of C. (dir., past pres.). Club: The Yacht and Country Inc. Office: 127 State St Springfield MA 01103

ALMON, RENEAU PEARSON, state supreme court justice; b. Moulton, Ala., July 6, 1937; s. Nathaniel Lee and Mary (Johnson) A.; m. Deborah Pearson Prewer, June 27, 1974; children by previous marriage: Jonathan, James, Nathaniel; 1 stepson: Tommy Prewer, B.S., U. Ala., 1959; LL.B., Cumberland Sch. Law Samford U., 1964. Bar: Ala., 1964. Practice analyst NASA; law clk. to presiding justice Ala. Supreme Ct.; sole practice Moulton; judge 36th Jud. Circuit Ala., 1965-69. Ala. Ct. Criminal Appeals, 1969-75; justice Ala. Supreme Ct., Montgomery, 1975-. Served with U.S. Army. Named one of Outstanding Young Men in Am., 1971. Mem. ABA, Ala. Bar Assn., Lawrence County Bar Assn., Montgomery County Bar Assn., Kappa Alpha, Phi Alpha Delta, Omicron Delta Kappa. Methodist. Office: Ala Supreme Ct 445 Dexter Ave Montgomery AL 36130 other: PO Box 218 Montgomery AL 36101

ALMOND, CARL HERMAN, physician, educator; b. Latour, Mo., Apr. 1, 1936; s. Hugh Herman and Sylvia (Morrison) A.; m. Nancy Ginn, June 18, 1964; children: Carrie, Callie, Carl, Christopher, B.S., Washington U., St. Louis, 1949, M.D., 1953. Diplomate: Am. Bd. Surgery, Am. Bd. Thoracic Surgery, Rotating Interns Los Angeles County Gen. Hosp., 1953-54; resident surgery U. Mich., Ann Arbor, 1954-56, jr. clin. instr. surgery, 1956-57, sr. clin. instr., 1957-58; fellow surg. pathology Barnes Hosp., Washington U., St. Louis, 1956; sr. surg. resident in urology Baylor U. Affiliated Hosps., 1958-59; resident thoracic surgery U. So. Cal., Los Angeles, 1959; fellow thoracic surgery, 1962-63; staff surgeon Univ. Hosp., Columbia, Mo., 1959-78, dir. thoracic and cardiovascular surgery, 1968-77; dir. thoracic and cardiovascular surgery VA Hosp., Columbia; fellow Brynthon Hosp., London, Eng., 1961; asst. prof. surgery U. Mo. Sch. Medicine, Columbia, 1959-64, asst. prof., 1964-69, prof., chief thoracic and cardiovascular surgery, from 1969; prof. and clin. dept. surgery Sch. Medicine, U. S.C. Columbia, 1978-85, dir. gen. surgery residency program, 1979-85, assoc. dean clin. research and devel., 1984-. vis. prof. U. Geneva, Switzerland, 1972-73; Mem. med. adv. panel FAA, 1970-75; mem. U.S. Comm. on UNESCO, 1983. Contr. articles to prof. journals. Served with USNR, 1944-52. Fellow A.C.S.; mem. AMA, Boone County Med. Soc., Columbia Med. Soc., S.C. Med. Assn., S.C. Thoracic Soc., Am. Assn. Med. Colls., Frederick H. Collier Surg. Soc., St. Louis Surg. Soc., Am. Coll. Cardiology, Am. S.C. heart assess. Am. Soc. Artificial Internal Organs, Soc. Med. Cons. to Armed Forces, Am. Coll. Chest Physicians, So. Thoracic Surg. Assn., Cent. Surg. Soc., Am. Thoracic Surgery, So. Surg. Assn., S.C. Surg. Soc., Chest Club, Soc. Surg. Chairmen, Marion S. DeWese Surg. Soc., Southeastern Surg. Soc., So. Surg. Soc., Internat. Cardiovascular Soc., Thoracic Surgeons, Sigma Xi, Nu Sigma Nu, Sigma Chi. Home: 10 Suntuir Circle/Columbia SC 29223 Office: USC Sch Medicine Dept Surgery Two Medical Park/Ste 300 Columbia SC 29203

ALMOND, GABRIEL ABRAHAM, political science educator; b. Rock Island, Ill., Jan. 12, 1911; s. David Moses and Lisa (Eilon) A.; m. Maria

1976; 1 son, Matthew James. Student, McGill U., Montreal, 1948-49; B.A., Balliol Coll., Oxford, 1952; M.A., 1954. TV producer-dir. CBC, Toronto, also in Los Angeles, N.Y.C., London, 1954-67; pres. Quest Films, Montreal, 1967-; Writer, producer, dir., feature films: Isabell, 1968, Act of the Heart, 1970 (Etrug-Best Can. Dir.), Journey, 1972, Ups and Downs, 1982, Captive Hearts, 1987; Subject of book: (Janet Edsforth) Paul Almond, The Flame Within, 1973. Recipient Spl. diploma of merit Prague, 1963; Genie as best Can. TV drama dir., 1980; ETRUG best Can. feature dir., 1970. Mem. Dirs. Guild Am. (hon. life), Dirs. Guild Can. Anglican. Address: 54 Malibu Colony Malibu CA 90265

ALMONY, ROBERT ALLEN, JR., librarian, businessman; b. Charleston, W.Va., Oct. 14, 1945; s. Robert Allen and Margaret Elizabeth (Morrison) A.; m. Carol A. Krzeminski, May 6, 1972; children—Robby, Michael, Chandra, Rachel, A.A., Grossmont Coll., 1965; B.A., San Diego State U., 1968, M.L.S., U. Calif.-Berkeley, 1977. Sr. div. clk. San Diego State U. Library, 1965-68; asst. Calif. Tchr. Fin. Services, Orange County, 1968-70, v.p. gen. mgr., 1971-76; research asst. library sch. U. Calif.-Berkeley, 1976-77; reference librarian Oberlin Coll. Library, Ohio, 1977-79; asst. dir. libraries U. Mo. Columbia, 1980-; owner Almony & Assoc. Tax and Fin. Planning, Columbia, 1980-; distr. USA Today, Columbia, 1984-88; guest lectr. library budgeting; cons. library copy services. Contr. articles to prof. journals. Treas. Bahai's of Columbia, 1982-86, sec. 1987-89, chmn., 1989-; coach Columbia Youth Soccer League, 1981-; cubmaster Boy Scouts Am., Columbia, 1983-85, asst. scoutmaster, 1985-; hon. warrior, Mic-O-Say, 1986-. Mem. ALA, Mo. Library Assn., Assn. Coll. and Research Libraries (exec. com. 1983-86), Library Administrators and Mgmt. Assn., Mo. Assn. Coll. and Research Libraries (vice chmn., chmn. 1982-84), B & F Officers Group (chmn. 1987-); Avocations: camping; reading; gardening. Home: 301 Rothwell Dr Columbia MO 65203 Office: U Mo 104 Ellis Library Columbia MO 65201-5149

ALMQUIST, DON, illustrator, artist; b. Hartford, Conn., July 21, 1929; s. Nils Herbert and Jeannette Theresa (Perrow) A.; m. Kerstin Rignor Jonsson, May 21, 1955; children—Kristina, Jan Christian, B.F.A., R.I. Sch. of Design, 1951. Staff artist Eweden, Inc., N.Y.C., 1951; creative dir. Ahlen & Akerlund, Stockholm, Sweden, 1963-66, asst. v.p. Paier Coll. of Art, Hamden, Conn., 1979-84; graphic advisor U.S. Dept. of Fish and Wildlife, Washington, 1981-83. Illustrator: Christmas with Ed Sullivan, 1960, Doomed Road of Empire, 1962, What Did I See?, 1961, Loadmouse, 1962, Spring is Like the Morning, 1964, Summer is a Very Busy Day, 1967, Dolls From Cheyenne, 1968, Loadmouse (new illustrations), 1967, Some Animals Are Very Small, 1968, When Grandmother Was Young, 1969, When Mother Was Young, 1970, When Great Grandmother Was Young, 1971, Getting to Know New York State, 1971, Den Fortrottelad Ladan, 1967, It Never Is Dark, 1967, Catch Uncover a Secret, 1969, Not Very Much of a House, 1967, Ginnie and the Mystery Light, 1973, Lilyb Shadows a Lady, 1974, Loadmouse (new edit./illustrations), 1982. Served as Sgt. U.S. Army, 1951-53, Korea. Recipient numerous awards of merit Soc. of Illustrators, N.Y.C., 1953-84, Silver Medal, Phila. Art Dir., 1953, Gold Medal, Milw. Art Dir., 1963, numerous awards of merit N.Y. Art Dir., N.Y.C. Mem. Am. Inst. Graphic Arts, Episcopal, Avocation: horticulture. Home and Office: 100 The Strand New Castle DE 19720

ALMQUIST, DONALD JOHN, electronics company executive; b. Elwood, Ind., Aug. 19, 1933; s. Elliott John and Madysa Rose (Jones) A.; m. Charlene Gail Mull, Dec. 17, 1955; children: Gregory John, Tracy Gail, B in Indust. Engring., Gen. Motors Inst., 1955, Supr. Delco Remy div. Gen. Motors Co., Anderson, Ind., 1956-64, plant mgr., 1964-69, plant mgr., 1969-72, asst. dir. personnel, 1972-74, mgr. mfg., 1974-76, gen. mgr. mfg., 1978-82, gen. mgr., 1982-84; gen. mgr. Delco Electronics div. Gen. Motors Corp., Kokomo, Ind., 1984-86; v.p. gen. mgr. Delco Electronics Corp., Kokomo, 1986-89, chmn., pres., chief exec. officer, 1989-. exec. v.p. GM Hughes Electronics, 1989-. mem. Ind. Telecommunications Network Comm., Indpls., 1985-89; bd. dirs. Ind. Corp. for Sci. Tech., Indpls. Bd. agrs. Rose Hulman Inst. Tech., Terre Haute, Ind., 1984-; bd. dir. St. Johns Mod. Ctr., Anderson, 1982-84, Ind. Vocat. Tech. Coll., Kokomo, 1984-85, St. Joe Hosp., Kokomo, 1984-86. Mem. Ind. C. of C. (bd. dir., 1984-); Methodist, Lodge: Elks. Home: 5605 Four Mile Dr Kokomo IN 46901 Office: Gen Motors Corp Delco Electronics Corp 1 Corporate Cir Kokomo IN 46904

ALMY, THOMAS PATTISON, physician, educator; b. N.Y.C., Jan. 10, 1915; s. Don Robinson and Marie (Pattison) A.; m. Katherine Whittia Swift, Nov. 12, 1943; children: Susan, Anne, Christine, A.B., Cornell U., 1935, M.D., 1939; M.A. (hon.), Dartmouth Coll., 1970. Intern N.Y. Hosp., 1939-40; resident medicine 1940-43; from asst. prof. to prof. medicine Cornell U. Med. Coll., 1946-68; Nathan Smith prof. medicine, chmn. dept. Dartmouth Med. Sch., 1968-73. Third Century prof., 1973-85, prof. medicine and community medicine emeritus, 1985-; disting. physician VA, 1982-85; cons. NIH, NRC, Am. Cancer Soc. Author articles in clin. physiology gastrointestinal diseases. Recipient award of distinction Cornell U. Mod. Coll., 1982-84, Ind. Vocat. Tech. Coll., Kokomo, 1984-85, St. Joe Hosp., Kokomo, 1984-86. Mem. Ind. C. of C. (bd. dir., 1984-); Methodist, Lodge: Elks. Home: 5605 Four Mile Dr Kokomo IN 46901 Office: Gen Motors Corp Delco Electronics Corp 1 Corporate Cir Kokomo IN 46904

ALNES, ELLIS STEPHEN, journalist, researcher; b. Thiel River Falls, Minn., Dec. 1, 1926; s. Lloyd T. and Shirley (Anderson) A.; m. Margaret Elizabeth Griolds, Dec. 17, 1948; children: Susan, Karen, Judith, Lee, B.A. U. Minn., 1949. U.P.I. reporter Bismarck, N.D., 1949-54; reporter, bus. editor, Sunday editor Pioneer Press & Dispatch, St. Paul, 1954-67; editorial writer Mpls. Star, 1967-71, assoc. editorial page editor, 1971-75, editorial page editor, 1975-79; exec. dir. Upper Midwest Council, 1979-82; editor Minn. Jour., 1983-. Served with USNR, 1944-46.

ALOFF, MINDY, writer; b. Phila., Dec. 20, 1947; d. Jacob and Selma (Albura) A.; m. Martin Steven Cohen, June 16, 1968; 1 child, Ariel Nikiya. AB in English, Vassar Coll., 1969, MA in English, SUNY, Buffalo, 1972. Asst. prof. English U. Portland, Oreg., 1973-75; editor Encore Mag. of the Arts, Portland, 1977-80; Vassar Quar., Poughkeepsie, N.Y., 1980-85; freelance writer Bklyn., 1988-; coord. Portland Poetry Festival, 1974-75. Author: (poems) Night Lights, 1979; author over 100 essays and revs. theatrical dancing for New Yorker mag., Nation mag., Threepenny Rev., Dance mag., N.Y. Times Book Rev., ann. Eng. Britannica, others. Mem. urgent action com. Amnesty Internat. Recipient Whiting Writers award Mrs. Giles Whiting Found. N.Y.C. 1987.

Ga., 1965-67; asst. to v.p. fin. AMAX Inc., Greenwich, Conn., 1967-68, mg. fin. planning, 1968-69, asst. controller, 1969, controller, 1970, v.p. and controller, 1973-78, sr. v.p. controls and adminstr., 1978-80, sr. v.p. pres. ind. minerals div., 1981-82, exec. v.p. aply. and light metals ops., 1982-8, exec. v.p. chief fin. officer, 1983-87; pres. MVA Fin. Corp., 1987-; bd. dir. MTB Banking Corp., Alumnac Inc., San Mateo, Calif., bd. dirs. Greenwich Health Assn.; mem. Greenwich Bd. Health; chmn. internat. steering com. Global Econ. Action Inst. Mem. Nat. Assa. Accountants (chmn. mgr. acctg. practices com. 1976-79), Conf. Bd. Council Fin. Exces., Fin. Adv. Council (exec. com. 1984-87), Extractive Industries Luncheon Group (chmn. 1978-79), Am. Mining Congress (chmn. acctg. com. 1980-82, mem. pension com. 1978-82), Internat. Magnesium Assn. (bd. dir. 1983-84), Am. Inst. CPA's Fin. Exces. Inst., AIME, Phosphate Rock Export Assn. (dir. 1982-83), Mining Club N.Y.C. (dir.), Econ. Club of N.Y., Westchester Country Club, Beta Alpha Psi, Beta Gamma Sigma, Am. Assn. Sovereigns Mil. Order of Malta, Republican. Office: 551 Fifth Ave Ste 1601 New York NY 10017

ALOST, ROBERT ALLEN, university executive; b. New Orleans, Jan. 13, 1935; m. Alma Rabb; children: Michael, Stan, Wes, BS, Northwestern State Coll., 1957, MS, 1958; EDD, La. State U., 1963. Tchr. maths, Alexandria (La.) Jr. High Sch., 1959-60, Cen. High Sch., Baton Rouge, 1960-61; tchr. maths., football, basketball and track coach Istrouma Jr. High Sch., Baton Rouge, 1961-63; mem. faculty health and phys. edn., coordinator student teaching program in phys. edn., Northwestern State U., Natchitoches, La., 1963-64; dept. head health and phys. edn., 1964-75; dean Coll. of Edn., Northwestern State U., Natchitoches, La., 1975-82; dir. La. Sch. for Math. Sci. and the Arts, Natchitoches, 1982-84; pres. Northwestern State U., 1986-; mem. Northwestern State U. curriculum rev. council, 1975-82, Admissions Bd. credits and graduation council, 1975-82, area rep. from colls. and univs. to La. Conf. on Civ. and Criminal Justice, 1974; mem. Title IV Adv. Bd., La., Bull. 996 Revision Council of La. State Dept. Edn., house concurrent resolution com. 201 of Nat. Tchr.'s Examination Bd., So. Assn. Elem. Commn.; Gov.'s Adv. Com. on Edn. of Handicapped Children. Contr. articles to prof. journals; mem. editorial bd. La. Jour. Ednl. Administration, La. Ednl. Research Assn. Jour., Dean's Desk Ednl. Columns, Active Natchitoches Recreation Assn. Bd., La. Outdoor Drama Assn., Natchitoches/Northwestern Symposium Soc., Boy Scouts Am., Sunday sch. tchr., bd. deacons First Bapt. Ch., Natchitoches; bd. dirs. Natchitoches Parish Tourist Commn., Served to army, capt. U.S. Army, 1958-59; Mem. Am. Assn. for Colls. of Tchr. Edn. (state del.), Am. Assn. for Health, Phys. Edn. and Recreation, Assn. for Supervision and Curriculum Devel., Assn. for Tchr. Educators, La. Assn. for Colls. of Tchr. Edn. (bd. dir., 1976-82, pres.), La. Assn. for Deans of Edn., La. Council Deans of Edn. (pres.), La. Tchr. Assn. (pres. northwestern sect. 1972, univ. del. 1973), Nat. Coll. Phys. Edn. Assn. for Men., So. Assn. of Schs. and Colls. (univ. rep. state elem. com.), Nat. Assn. Inter-Collegiate Athletics (exec. com. dist. 30 1973-75), La. Assn. for Health, Phys. Edn. and Recreation (pres.), Northwestern Athletic Council (chmn. 1974-77), La. Angus Assn. (sec.), Natchitoches Parish Cattlemen's Assn. (past v.p. pres.), Natchitoches C. of C. (pres. 1978, v.p. fin.), Blue Key Club, Phi Kappa Phi, Phi Delta Kappa, Phi Epsilon Kappa (pres.), Club N Club of Northwestern State U. (v.p.), Lodge: Lions (pres. 1966), Rotary. Home: Northwestern State U. President's Home Natchitoches LA 71457 Office: Northwestern State U. La. Office of Pres Natchitoches LA 71497

ALPEN, EDWARD LEWIS, biophysicist, educator; b. San Francisco, May 14, 1922; s. Edward Lawrence and Margaret Lily (Shipley) A.; m. Wynella June Dosh, Jan. 6, 1945; children: Angela Marie, Jeannette Elise, B.S., U. Calif., Berkeley, 1946, Ph.D., 1950. Br. chief, then dir. biol. and med. sci. Naval Radiol. Dev. Lab., San Francisco, 1952-64; mgr. environ. and life sci. Battelle Meml. Inst., Richland, Wash., 1964-69, assoc. dir., then dir. Pacific N.W. div., 1969-75; dir. Donner Lab., U. Calif., Berkeley, also assoc. dir. Lawrence Berkeley Lab., 1975-87; prof. biophysics U. Calif., Berkeley, 1975-; prof. radiology U. Calif., San Francisco, 1976-; dir. U. Calif. Study Ctr., London, 1988-; councillor, dir. Nat. Council Radiol. Protection, 1969-; mem. Gov. Wash. Council Econ. Devel., 1973-75; bd. dir. Wash. Bd. Trade, 1973-76. Author papers, abstracts in field. Served to capt. USNR, 1942-46, 50-51, Recipient Navy Sci. medal, 1962, Distating Service medal Dept. Def., 1963, Sustaining Members medal Assn. Mil. Surgeons, 1971; fellow Guggenheim Found., 1960-61; r. fellow NSF, 1958-59, Fellow Calif. Acad. Sci.; mem. Biocircumnetics Soc. (pres. 1979-80), Am. Physiol. Soc., Radiation Research Soc., Soc. Exptl. Biology and Medicine, Biophys. Soc. Am. Philatelic Soc., Sigma Xi, Episcopalian, Home: 1182 Miller Ave Berkeley CA 94708 Office: Univ Calif 466 Donner Berkeley CA 94720

ALPER, ALBERT, consulting civil engineer; b. St. Louis, Oct. 12, 1912; s. Nathan W. and Anna (Schoenfeld) A.; m. Sylvia Laszy, Nov. 26, 1937; children—Cynthia Marie Cole, Patricia Ann Gold, Marc Howard, B.S.C.E., Mo. Sch. Mines and Metallurgy, 1936. Various enging. positions 1936-46; structural engr. J. Gordon Turbull Inc. (Engrs.-Architects), St. Louis, 1946-49; design engr. Metz & Eason (Structural Engrs.), St. Louis, 1949-51; cons. structural engr. Creve Coeur, Mo., 1951-70; chmn. bd. Alper Assoc., Inc., 1970-89, cons., 1989, ret. Structural enging. projects include St. Louis Planetarium. Fellow ASCE; mem. Am. Concrete Inst., ASTM, Am. Cons. Engrs. Council (dir. 1982-83), Cons. Engrs. Council Mo. (dir. 1967-69, pres. 1981-82), Internat. Assn. Bridge and Structural Engrs. Home: 578 Sarah Ln Creve Coeur MO 63141

ALPER, ANNE ELIZABETH, professional association executive; b. Montreal, Que., Can., Nov. 7, 1942; d. John S. and Emma (Flynn) Fairhurst; m. Howard Alper, June 4, 1966; children: Ruth and Lara (twins), BS in Chemistry with honors, Marianopolis Coll., Montreal, 1962; PhD in Organic Chemistry, McGill U., Montreal, 1966. Resch. assoc. Textile Resch. Inst., Princeton, N.J., 1968-69; mgr. publs. Chem. Inst. Can., Ottawa, Ont., 1981-86, exec. dir., 1986-. Office: Chem Inst Can. 130 Slater St Ste 550, Ottawa, ON Canada K1P 6E2

ALPER, HOWARD, chemistry educator; b. Montreal, Que., Can., Oct. 17, 1941; s. Max and Frema (Weinstein) A.; m. Anne Elizabeth Fairhurst, June 4, 1966; children: Lara, Ruth, BS, Sir George Williams U., Montreal, 1963; Ph.D., McGill U., 1967. Asst. prof. SUNY, Binghamton, 1968-71; assoc. prof. SUNY, 1971-74; assoc. prof. U. Ottawa, 1975-77, prof., 1977-; chmn. dept. chemistry, 1982-85, 88-91. Editor two books in the field of organometallic chemistry and catalysis; coauth. over 200 articles in chemistry journals.