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<u>SOURCE &amp; NAME</u>	<u>RECOMMENDED SELECTION</u>	<u>PAHL APPROVAL</u>
H. <u>AMERICAN ACADEMY OF ORTHOPEDIC SURGEONS</u>		
DONALDSON, WILLIAM F.	MEMBER	
HOAGLUND, FRANKLIN T.		
LARSON, CARROLL B.	MEMBER	
MANKIN, HENRY J.		
MURRAY, DAVID G.		
MURRAY, WILLIAM R.		
SLEDGE, CLEMENT B.		
WILSON, PHILIP D.		

Radcliffe Col. 59-61, Ph.D. (biol. 62, Fel. Univ. Alta. echnol. 66-68; ASST. PROF. MICROBIOL. 58-61, MED. 68- AAAS: Am. Soc. Microbiol. Address: Dept. of Linda University, Loma Linda, CA 92354.

Salmon, Viet Nam. PHYSICS. B.S. Syracuse Univ. 61; chnol. 63, Ph.D. (physics). 65. Res. asst. PHYSICS. 63-65; Nat. Res. Coun. Can. fel. & res. assoc. McGill prof. LAVAL UNIV. 66-69. ASSOC. PROF. 69- Am. Physicists. Structure of the atomic nucleus and nu- y. Address: Dept. of Physics, Laval University, Que.

DAMON, b. Swarthmore, Pa. July 24, 13; m. 18; c. 4. Y. BIOLOGY. B.S. Delaware, 37; M.S. Maryland, 38. 3), 42. Asst. agronomist & plant breeder, exp. sta. st. div. plant pathologist & geneticist, Campbell Soup Co, mgr. agr. res. 57-63, Joseph Campbell Co. 63-70. MONTCLAIR STATE COL. 71- U.S.M.C.R. 42-45, 1st agriculture; ecology. Address: Dept. of Ecology, Mont- Upper Montclair, NJ 07043.

WARNER, b. Roxbury, Mass. Dec. 25, 34; m. 59; c. 1. ENGINEERING. A.B. Harvard, 57. S.B. M.S. Wis- ct, civil eng. 67. Sanit. engr. U.S. Pub. Health serv., water qual. sect. 61-62, in charge data utilization (ic biologist, Nat. Water Qual. Lab. U.S. Dept. Interior. F. ENVIRON. SCI. & ENG. SCH. CIVIL ENG. & SCH. CHNOL. 68- Fel. environ. sci. & eng. Harvard, 68-67. t. Comdr. AAAS: Am. Soc. Limnol. & Oceanog. N.Y. Microbiol; Water Pollution Control Fedn. Int. Ass. mol. Aquatic microbiology; microbial ecology; bacte- olution on the biology of natural surface waters; eclo- ent; behavior of pathogenic bacteria and viruses in nat- . Address: 1442 N. Decatur Rd. N.E. Atlanta, GA 30306.

BRUCE, b. Winchester, Mass. June 2, 39; m. 51; c. 3. TATISTICS. B.S. N.C. State Univ. 62; M.A. Univ. Calif. (statist), 66. Asst. prof. STATIST. Univ. Calif. Berke- ch. staff, BELL LABS, 66-70. SUPV. OPER. ANAL. ist; Am. Statist. Assn; Inst. Mgt. Sci. Bayesian statis- ol systems. Address: Room 2D-423, Bell Labs, Holm-

B (URNHAM), b. Swarthmore, Pa. June 24, 09, m. 34; ENGINEERING. B.Sc. Swarthmore Col. 30; M.Sc. , D.Sc. 37. Asst. ELEC. ENG. Mass. Inst. Tech. 30-31, rol, Polytech. Inst. Brookline, 40-45, assoc. prof. 45-43; UNIV. 43- HEAD DEPT. 54- Civilian War Eff. Sci. Am. Soc. Eng. Educ; fel. Inst. Elec. & Electronics ns Instrumentation & Measurement. Electronic mea- surements and control devices. Address: Dept. of ing, North Carolina State University, Raleigh, NC 27607.

) BRUCE, b. Waterbury, Conn. July 24, 33; m. 57; c. 2. TECHNOLOGY. B.S. Connecticut, 55; M.F. Yale, 57. wr. & res. technician wood tech. Yale, 57-62. Asst. prof. , UNIV. MASS. AMHERST, 62-71. ASSOC. PROF. 71- oc; Soc. Wood Sci. & Technol; Soc. Am. Foresters. near cutting; fundamental properties of wood. Address: ce & Technology, University of Massachusetts, Amherst.

LEN), b. Ann Arbor, Mich. Jan. 23, 21; m. 45; c. 2. Brown, 42; Ph.D. (astron), Harvard, 51. Physicist, U.S. 44; ASTRONOMER, U.S. Naval Observ., 50-59; WITT V, 65- U.S.N., 44-46. AAAS: Am. Astron. Soc. Int. Royal Astron. Soc. Photoelectric and photographic pro- ; astronomical sites and instruments. Address: Kitt vatory, P.O. Box 4130, Tucson, AZ 85717.

WARD), b. Waverly, N.Y. Nov. 15, 04; m. 30; c. 4. em, Cornell, 27, Heckscher fel. 28, Ph.D. (organi chem), m. Can Co, Maywood, 30-33, group supvr. 31-42, sect. dir, 52-55, Barrington, 55-59, sr. res. assoc. 59-70. m. Soc; Am. Ceramic Soc; Am. Soc. Brewing Chem.; petroleum waxes; determination of germanium in sil- tration of iron from gallium; fluorescence test for ana- c identification of fluorine; manufacture and use of the r fracture of paraffin wax. Address: P.O. Box 411, High-

ORGE), b. Roosevelt, N.Y. Nov. 8, 19; m. 45; c. 6. VET- E. D.V.M. Cornell, 44; M.P.H. Harvard, 57. Asst. vet. , 44-46; vet. practitioner, N.Y., 45-48; field vet. Cornell, path, Va. Polytech, 53-56; staff scientist, Jackson Lab. 5-63, asst. dir. & sr. staff scientist, 63-67. PROF. ANIMAL RESOURCES, MICH. STATE UNIV. 67- H.S.R. 55-, Vet. AAAS; Am. Soc. Exp. Path. Am. Soc. Med. Asn; Am. Pub. Health Asn; Am. Assn. Lab. Animal kers Animal Diseases; N.Y. Acad. Sci. fel. Royal Soc. gy; immunology; diseases of laboratory animals; com- Address: Center for Laboratory Animal Resources, ersity, East Lansing, MI 48824.

(UDOLPH), b. Fairfield, Iowa, Aug. 12, 34; m. 57; c. 1. NETICS. B.S. Parsons Col. 57; M.S. Iowa State, 59. tes. entomologist, bee mgt. invests. U.S. Dept. Agr. 54- Parsons Col. 65-68; ASSOC. PROF. BIOL. SAM HOUS- 68- Med.C. U.S.A., 57-59. Entom. Soc. Am; Am. Cel- Soc. Am. Genetics of disease resistance in Drosophila; d tissue culture; ultrastructure; gonad. spermatozoa. Address: Dept. of Biology, Sam Houston State University, o.

EOAGLAND, ALAN D. b. Winnetka, Ill, Mar. 25, 11; m. 39; c. 3. GEOLOGY. F.Sc. Northwest Univ. 33, M.A. 35. Chief geologist, N.J. ZINC CO, 41-70, MGR. EAST EXPLOR. 70- Geol. Soc. Am; Soc. Econ. Geol. Metal and industrial mineral exploration. Address: 2602 Loyd St, Murfreesboro, TN 37130.

EOAGLAND, A(LBERT) (SMILEY), b. Berkeley, Calif, Sept. 13, 26; m. 50; c. 3. ELECTRICAL ENGINEERING. B.S. California, 47, M.S. 48, Ph.D. elec. eng. 54. Res. engr, elec. eng. California, 47-49, asst. 50-52, instr, 52-54, asst. prof. 54-55; mgr. magnetic record tech. res. lab, Int. Bus. Mach. Corp. Calif, 56-58, adv. memory develop. 58-59, eng. sci, 59-61, systs. mgr, adv. systs. div. 61-62, sr. tech. consult, World Trade Corp, 62- 64, mgr. eng. sci, RES. CTR. YORKTOWN HEIGHTS, 64-68, DIR. TECH. PLANNING, IBM CORP, 69-, consult, 54-58. Consult, State of Calif, 56; chmn. joint computer conf. comt. Am. Fedn. Info. Processing Soc, 69- U.S.N.R, 44-46, Lt.(jg). Fel. Inst. Elec. & Electronics Eng. Digital com- puters, especially memory exploiting magnetic recording for storage; mag- netic recording theory; memory and storage for data processing systems; technology and design. Address: Research Center, IBM Corp, P.O. Box 218, Yorktown Heights, NY 10598.

EOAGLAND, HUDSON, b. Rockaway, N.J. Dec. 5, 09; m. 20; c. 4. PHYSIOL- OGY. A.B. Columbia Univ. 21; M.S. Mass. Inst. Technol. 24; Ph.D. (psy- chol), Harvard, 27; hon. Sc.D. Colby Col, 45, Wesleyan Univ, 59, Clark Univ, 52, Bates Col. 55, Boston Univ, 65 & Worcester Polytech. Inst. 66. Nat. Res. Coun. fel. physiol. Harvard, 27-28, instr. physiol. & tutor biol. 28-30; Parker traveling fel. from Harvard & lectr. Cambridge, 30-31; prof. physiol. & dir. physiol. labs, Clark Univ, 31-44; exec. dir. WORCESTER FOUND. FOR EXP. BIOL. 44-68, EMER. PRES. 68- Tutor, Harvard & res. assoc. med. sch. 40-41, Guggenheim fel, 44-45, lectr. 45-46; res. prof. med. col. Tufts Col. 46-50; affiliate res. prof. Boston Univ, 50-68; consult. Nat. Sci. Found. 58-61. Past trustee, Woods Hole Oceanog. Inst; trustee, Worcester Mem. Hosp; Carver Found. Tuskegee Inst; mem, Int. Brain Res. Orgn; World Acad. Art & Sci; vis. comt, biol. dept. Mass. Inst. Technol, 54-58; med. sch. & sch. dent. med, Harvard, 59-65, biol, psychol. & social relations depts. 65-70. Modern Med. Award for Distinguished Achievement, 55. U.S.A. 17-19. Fel. AAAS: Am. Physiol. Soc; Am. Acad. Neurol; Asn. Res. Nervous & Ment. Diseases; Soc. Biol. Psychiat. (pres, 67-68); fel. Am. Acad. Arts & Sci. (recording secy. 38-46, v-pres, 55-56, pres, 61-64). Stress in relation to the adrenal cortex; electrical activity of the brain in relation to brain chemistry; neuropharmacology. Address: Worcester Foundation for Experimental Biology, 222 Maple Ave, Shrewsbury, MA 01545.

EOAGLAND, LAWRENCE CLAY, b. Marion, Ohio, Nov. 15, 31; m. 51; c. 4. MECHANICAL ENGINEERING. B.Mech. Eng. Gen. Motors Inst, 54; Gen. Motors Corp. fel. Mass. Inst. Tech. 54-55, M.S. 55, Fluor fel. & M.E. 56. Sc.D.(mech. eng. 60. Jr. engr. small gas turbine dept, Gen. Motors Corp. 53-54; asst. appl. mech, Mass. Inst. Tech. 56-57, instr. 57-58, asst. prof. heat transfer & thermodyn. 58-60; v-pres. eng. res. DYNATECH CORP, 60- 68. V. PRES. & DIR. RES. STEAM ENGINE SYSTS. CORP, NEWTON, 68- 69. L.C. Hoagland Assoc. 68-70. Am. Soc. Mech. Eng. Soc. Automotive Eng; Am. Soc. Heat, Refrig. & Air-Conditioning Eng. Development of heat engines, heat exchanger applications and heat transfer and flow processes of interest in heat exchange equipment; heat transfer and flow in non circular ducts. Address: 3 Martha's Point Rd, Concord, MA 01742.

EOAGLAND, MARLON B (USID), b. Boston, Mass, Oct. 5, 21; m. 43, 61; c. 4. BIOCHEMISTRY. M.D. Harvard Med. Sch, 48. Res. fel. med, Huntington Lab, Mass. Gen. Hosp, 48-51; fel. Am. Cancer Soc, Carlsberg Lab, Copen- hagen, 51-52; biochem. res. lab, Mass. Gen. Hosp, 52-53, from asst. to asst. prof, Huntington Lab, Harvard Med. Sch, 53-60, assoc. prof. bact. & immunol, 60-67, tutor, 53-60, exec. secy, comt. res, Hosp, 54-57; prof. biochem. & chmn. dept, Dartmouth Med. Sch, 67-70; DIR, WORCESTER FOUND. EXP. BIOL. 70- Scholar cancer res, Am. Cancer Soc, 53-58. Mem. med. res. coun. unit molecular biol, Cavendish Lab, Cambridge Univ, 57-58; biochem. study sect, Nat. Insts. Health, 61-64; trustee, Mem. Hosp, Worcester, Mass; mem. bd. sci. counsrs. Nat. Heart & Lung Inst. Am. Soc. Biol. Chem; Am. Acad. Arts & Sci. Carcinogenic and biological effects of beryllium; biosynthesis of co-enzyme A; biosynthesis of protein. Ad- dress: Worcester Foundation for Experimental Biology, Shrewsbury, MA 01545.

EOAGLAND, PETER DAYTON, b. Somerville, N.J. Nov. 21, 34; m. 58; c. 3. BIOCHEMISTRY. B.A. DePauw Univ, 56; M.S. Fla. State Univ, 58, Ph.D. (biochem), 64. RES. CHEMIST, EAST. MKT. & NUTRIT. RES. DIV, AGR. RES. SERV, 64- AAAS; Am. Dairy Sci. Asn. Milk proteins; protein modifi- cation; amino acid derivatives; prebiological chemistry; marine science. Address: 224 Oreland Mill Rd, Oreland, PA 19075.

EOAGLAND, VINCENT DeFOREST, JR, b. Waltham, Mass, June 10, 40; m. 70. BIOCHEMISTRY. B.A. Wesleyan Univ, 62; Ph.D. (chem), Fla. State Univ, 67. Nat. Insts. Health res. fel. biochem, Univ. Wash, 67-69; ASST. PROF. CHEM. SONOMA STATE COL. 69- AAAS. Enzymology; quaternary structure of enzymes; enzyme kinetics. Address: Dept. of Chemistry, Sonoma State College, Rohnert Park, CA 94928.

EOAGLIN, RAYMOND (ISAAC), b. Crawfordsville, Ind, Feb. 8, 13; m. 41; c. 2. ORGANIC CHEMISTRY. A.B. Wabash Col, 35; M.S. Purdue, 38, Ph.D. (chem), 42. Asst. chem, Wabash Col, 35-36; Purdue, 36-41; res. chemist, Carbide & Carbon Chem. Co, 41-48, group leader, 48-53, tech. supvr. process develop. lab, 53-55, asst. dir. develop. dept, Union Carbide Chem. Co. Div. UNION CARBIDE CORP, 55-57, assoc. dir, 57-61, res. & develop. dept, chem. div, 61-64, dir. tech. prog, 64-67, DIR. RES. & DEVELOP. DEPT, CHEM. & PLASTICS DIV, 67- Synthesis; product and process development; chemicals; polymers. Address: Research & Development Dept, Chemicals & Plastics Division, Union Carbide Corp, Technical Center, South Charles- ton, WV 25313.

EOAGLIN, FRANKLIN THEODORE, b. San Francisco, Calif, May 17, 30; m. 59; c. 3. ORTHOPEDIC SURGERY. B.A. California, Berkeley, 53; M.D. Hopkins, 58. Nat. Insts. Health engr. fel. Royal Nat. Orthopa. Hosp, London, England, 60-63; instr. ORTHOP. SURG, sch. med. & dent. Rochester, 64-

- 55-56; asst. prof. 66-67; vis. lectr. faculty med. Hong Kong. 67-68; assoc. prof. & chmn. dept. COL. MED. UNIV. VT. 68-69. PROF. & CHMN. DEPT. 69-70. Hon. consult. div. child health serv. handicapped children's sect. Vt. State Dept. Health. 68-69. Med. C. U.S.A.F. 58-60. Gen. Surg. Am. Acad. Orthop. Surg.; Orthop. Res. Soc. Assn. Bone & Joint Surg. Investigation of the biochemistry of articular cartilage growth and destruction in experimental arthritis; clinical investigation of osteoarthritis. Address: Dept. of Orthopedic Surgery, University of Vermont Medical Alumni Bldg, Burlington, VT 05401.
- HOAK, JOHN C. b. Harrisburg, Pa. Dec. 12. 28; m. 52; c. 3. INTERNAL MEDICINE. B.S. Lebanon Valley Col. 51; M.D. Hahnemann Med. Col. 55. Instr. med. col. med. Iowa, 61-62; vis. researcher, Sir William Dunn Sch. Path, Oxford, 62-63, asst. prof. med. COL. MED. UNIV. IOWA. 63-67, assoc. prof. 67-70. PROF. MED. & DIR. SECT. HEMAT. 70- Am. Heart Assn. res. fel. 61-63, adv. res. fel. 63-65; mem. med. adv. bd. coun. on circulation, Am. Heart Assn. U.S. Pub. Health Serv. career develop. award & fel. coun. on arteriosclerosis. Dipl. Am. Bd. Internal Med. U.S.N. 56-58. Lt. Am. Med. Assn. Am. Fedn. Clin. Res.; Am. Col. Physicians; Int. Soc. Thrombosis & Haemostasis; Int. Soc. Hemat.; Am. Soc. Hemat. Blood coagulation. Address: Dept. of Internal Medicine, University of Iowa Hospitals, Iowa City, IA 52240.
- HOAR, DONALD WAYNE. b. Hot Springs, S.Dak. Feb. 4. 42; m. 66; c. 1. NUTRITION, BIOCHEMISTRY. B.S. S.Dak. State Univ. 65. M.S. 67. Ph.D. (animal sci). 69. NUTRITIONIST, OSCAR MAYER & CO. 69- Am. Soc. Animal Sci; Inst. Food Technol. General nutrition. Address: Research Lab, Oscar Mayer & Co, Madison, WI 53590.
- HOAR, RICHARD M(ORGAN), b. Boston, Mass, Nov. 22, 27; m. 49; c. 1. ANATOMY, EMBRYOLOGY. A.B. Dartmouth, 50, fel. 50-52; Ph.D.(anat), Kansas, 56. Instr. anat. col. med. Cincinnati, 56-58. asst. prof. 58-64, assoc. prof. 64-69; HEAD TERATOLOGY, RES. DIV. HOFFMANN-LA-ROCHE INC. 69- Consult. Nat. Inst. Environ. Health Sci, Nat. Inst. Health, 70- U.S.A. 46-47. AAAS; Am. Assn. Anat; Teratology Soc; Soc. Study Reproduction; Am. Assn. Lab. Animal Sci; Europ. Teratology Soc; Am. Soc. Exp. Path. Endocrinology of reproduction teratology and biochemistry of development in guinea pigs. Address: Dept. of Environmental Pathology & Toxicology, Research Division, Hoffmann-LaRoche Inc, Nutley, NJ 07110.
- HOAR, WILLIAM STEWART, b. Moncton, N.B. Aug. 31. 13; m. 41; c. 4. ZOOLOGY. B.A. New Brunswick, 34; M.A. Western Ontario, 36; Ph.D.(med. sci), Boston, 39; hon. D.Sc. New Brunswick, 65. Demonstr. zool. Western Ontario, 34-36; asst. histol. & embryol. med. sch, Boston, 36-39; asst. prof. biol. New Brunswick, 39-42, prof. zool. 42-45; zool. & fisheries, UNIV. B.C. 45-64, PROF. ZOOLOG. 64-, head dept. 64-71. Guggenheim fel. Oxford, 58-59. Fel. Royal Soc. Can.(Flavelle Medal, 65). Physiology; aspects of histology, embryology behavior and physiology of salmon. Address: Dept. of Zoology, University of British Columbia, Vancouver 8, B.C. Can.
- HOARD, DONALD E(ILLSWORTH), b. Seattle, Wash, Apr. 14, 28; m. 54; c. 4. BIOCHEMISTRY. B.S. Washington (Seattle), 52; Ph.D.(biochem), California, 57. Res. fel. biochem, Calif. Inst. Tech, 57-60; res. chemist, Pabst Labs, Pabst Brewing Co, 60-63; MEM. STAFF, BIOMED RES. GROUP, LOS ALAMOS SCI. LAB, UNIV. CALIF. 63- Sig.C. U.S.A. 46-48, Chem.C. Res, 52-63. AAAS; Am. Chem. Soc; Am. Inst. Chem. Organic chemistry of nucleotides; oligonucleotides and nucleic acids. Address: Biomedical Research Group, Los Alamos Scientific Lab, University of California, P.O. Box 1663, Los Alamos, NM 87544.
- HOARD, G(EOURGE) L(ISLE), b. Cuba, Kans, Oct. 5, 95; m. 27; c. 2. ELECTRICAL ENGINEERING. B.S. Washington (Seattle), 17, M.S. 26. Operator in charge rwy. substn, City Lighting Dept, Seattle, 17; asst. elec. eng. Washington (Seattle), 19-20, instr. 21-26, asst. prof. 27-33, assoc. prof. 34-41, prof. 41-70; RETIRED. Operator, steam elec. generating sta, City Lighting Dept, Seattle, 19-20. U.S.A. 17-19. Inst. Elec. & Electronics Eng. Transit engineering; industrial control; factors that determine the choice of vehicle in modernization of a transit system. Address: 260 N.E. 43rd St, Seattle, WA 98105.
- HOARD, JAMES L(YNN), b. Elk City, Okla, Dec. 28, 05; m. 35; c. 3. PHYSICAL CHEMISTRY. B.S. Washington (Seattle), 27; M.S. 29; Ph.D.(chem), Calif. Inst. Tech, 32. Anal. chemist, Falkenberg & Co, Wash, 27-28; asst. chem. Calif. Inst. Tech, 29-32; instr. Stanford, 32-35; Ohio State, 35-36; CORNELL UNIV, 36-38, asst. prof. 38-42, assoc. prof. 42-46, prof. 46-71, EMER. PROF. 71- Guggenheim fel, 46, 60 & 66. Civilian with Manhattan proj. subcontract, Cornell, 43-44; Off. Sci. Res. & Develop, 42-45. AAAS; Am. Chem. Soc; Am. Phys. Soc; Am. Crystalllog. Assn. Structure and properties of complex inorganic substances and of tetrapyrrole systems, especially the metalloporphyrins. Address: Dept. of Chemistry, Cornell University, Ithaca, NY 14850.
- HOARE, JAMES PATRICK, b. Denver, Colo, Jan. 9, 21; m. 53; c. 3. ELECTROCHEMISTRY. B.S. Regis Col, 43; Mullen fel, Catholic Univ, 43-44, M.S. 48, Ph.D.(phys. chem), 49. Asst. chem, Catholic Univ, 46-49; instr. Trinity Col.(D.C.), 49-51, asst. prof. physics & chem, 51-54; phys. chemist, Naval Res. Lab, Wash. D.C. 54-57; prin. res. engr, sci. lab, Ford Motor Co, 57-60; SR. RES. CHEMIST, RES. LABS. DIV. GEN. MOTORS CORP, 60-Grant, Res. Corp. 50-51. U.S.N.R. 44-46. Am. Chem. Soc; Electrochem. Soc; Int. Electrochem. Soc; N.Y. Acad. Sci. Chemical kinetics; electrochemistry; mechanisms of electrode reactions; catalysts; surface and solid state chemistry; fuel cells. Address: General Motors Research Lab, 12 Mile and Mound Rds, Warren, MI 48092.
- HOARE, RICHARD DAVID, b. Rosiclare, Ill, May 14, 27; m. 47; c. 2. INVERTEBRATE PALEONTOLOGY. A.B. Argusiana Col, 51; M.A. Missouri, 53, Ph.D. ST. INSR. GEOL. Missouri, 53-57; BOWLING GREEN STATE UNIV. 57-, CHMN. DEPT. 71-, 67-70. Summers. Field asst. Alachua br. U.S. Geol. Surv, 49-52; geologist, Carbor Mining Co. Can. 56; asst. prof. Missouri, 57-58. U.S.A. 45-47. Paleont. Soc; Nat. Assn. Geol. Teachers; Geol. Soc. Am; Brit. Palaeontograph. Soc; Brit. Palaeont. Assn. Upper Paleozoic invertebrate paleontology. Address: Dept. of Geology, Bowling Green State University, Bowling Green, OH 43402.
- HOARE, ROBERT. b. Calgary, Alta, Aug. 30, 23; m. 51; c. 2. BIOCHEMISTRY. B.Sc. Alberta, 48. M.Sc. 50; Ph.D.(biochem), Manitoba, 56. Asst. chemist, Alberta, 50; chemist, Food & Drug Directorate, 50-53. res. assoc. biochemist, Winnipeg Clin, 57; PROVINCIAL BIOCHEMIST, DEPT. HEALTH, PROVINCE MAN. 58- Hon. prof. Brandon Univ, 59-. Asst. biochemist, St. Boniface Hosp. & Winnipeg Municipal Hosp., R.C.A.F., 40-45. Sr. mem. Chem. Inst. Can; Can. Soc. Clin. Chem. Pathology in clinical chemistry; biochemistry of mental diseases. Address: 71 Whitehead Crescent, Brandon, Man. R7B 0W5, Can.
- HOATS, DAVID LEE, Exp. Psychol, see Suppl. I to 11th ed, Soc. & Behav. Vols.
- HOBACK, J(OHN) HOLLAND, b. Huntington, W.Va, Sept. 6, 20; m. 45; c. 2. PHYSICAL CHEMISTRY. A.B. Marshall Col, 41, M.S. 42; Ph.D. (chem), West Virginia, 47. Instr. CHEM, MARSHALL UNIV, 45-47, asst. prof. 47-53, assoc. prof. 53-64, PROF. 64- Consult. Vet. Admin. 64-65, v-pres. res. & develop. Continental Tobacco Co. 59-62, consult. 62-63, Am. Inst. Chem; Am. Chem. Soc. Relationships between physical properties and molecular structure; cellulose and salt solutions; paper electrophoresis and pulmonary function. Address: Dept. of Chemistry, Marshall University, Huntington, WV 25701.
- HOBACK, KARL F(HANKLIN), b. Huntington, W.Va, Jan. 5, 29. ORGANIC CHEMISTRY. B.S. Marshall Col, 50, M.S. 51; fel. West Virginia, 51-54, Ph.D.(chem), 56. Instr. chem, West Virginia, 54-56; asst. prof. VA. MIL. INST, 56-58; PATENT AGENT, PATENT DEPT. JONES & LOCKWOOD, Summers, res. chemist, Elec. Storage Battery Co, 57-58. AAAS, Am. Chem. Soc; fel. Am. Inst. Chem. Reaction of simple aliphatic amines with nitrous acid; oxidative degradation of polymers. Address: Jones & Lockwood, P.O. Box 2206, Eads Station, Arlington, VA 22202.
- HOBART, EVERETT W. b. Cincinnati, Ohio, Dec. 15, 31; m. 56; c. 5. ANALYTICAL CHEMISTRY. B.S. Mass. Inst. Technol. 53. Jr. chemist Am. Cyanamid Co, Conn, 53-55, chemist, 55-56; sr. chemist, Pratt & Whitney Aircraft Div, United Aircraft Corp, Conn, 56-60, supvr. anal. chem., 60-65. ASST. RES. DIR, LEIDOUX & CO. 65- Am. Chem. Soc. Chemical and instrumental analysis; alkali metals. Address: Reidoux & Co, 359 Alfred Ave, Teaneck, NJ 07666.
- HOBART, OSCAR F, JR. b. Centerville, Iowa, Dec. 26, 22; m. 46; c. 3. BOTANY, PLANT PATHOLOGY. B.S. Iowa State, 50, M.S. 51, Ph.D.(plant path), 54. Sugar res. specialist, United Fruit Sugar Co, Cuba, 53-58, asst. mng. sugar cane, 58-60; mem. staff tech. serv. to sales, NIAGARA CHEMICAL, FMC CORP, Fla, 60-65, N.Y. 65-67, prod. mng. fungicides, 67-69. DEVELOP. MGR. EUROPE, MIDDLE E. & AFRICA, FMC CHEM. S.A. SWITZ. 69- Am. Phytopath. Soc. Detection and spread of stone fruit viruses; sugar cane breeding and variety tests. Address: Niagara Chemical Division, FMC Corp, 100 Niagara St, Middleport, NY 14105.
- HOBBS, JOHN EYRES, b. Buffalo, N.Y, June 5, 35; m. 59; c. 3. LIMNOLOGY, ECOLOGY. B.A. Dartmouth Col, 57; M.A. California, Berkeley, 59; Ph.D.(zool), Indiana, 62. Res. assoc. zool. California, Davis, 62-63; Nat. Insts. Health fel, Inst. Limnol. Uppsala, 63-65; asst. prof. ZOOLOG. N.C. STATE UNIV, 65-67, assoc. prof. 67-71. PROF. 71- Nat. Sci. Found. res. grant, 66-71, sr. fel. Norweg. Inst. Water Res. Oslo, 71-72; Water Resources res. grant, 66-; dir. Tundra Biome Aquatic Prog, U.S. Int. Biol. Prog, 71- Ecol. Soc. Am; Am. Soc. Limnol. & Oceanog; Am. Inst. Fish. Sci. Int. Assn. Theoret. & Appl. Limnol. Arctic and antarctic limnology; heterotrophic bacteria in aquatic ecosystems; effects of eutrophication on estuaries. Address: Dept. of Zoology, North Carolina State University, Box 5577, Raleigh, NC 27607.
- HOBBS, RUSSELL K(LYVER), b. Albany, N.Y, Nov. 3, 34; m. 57; c. 4. PHYSICS. B.S. Mass. Inst. Technol. 56; A.M., Harvard, 57, Ph.D.(physics), 60. Res. assoc. PHYSICS, UNIV. MINN, MINNEAPOLIS, 60-62, asst. prof. 62-65, ASSOC. PROF. 65- Am. Phys. Soc; Am. Assn. Physics Teachers. Computer medical diagnosis; computer-generated films; nuclear physics. Address: School of Physics, University of Minnesota, Minneapolis, MN 55455.
- HOBBS, ANSON P(ARKER), b. Greensburg, Ind, Mar. 4, 15; m. c. 3. PHYSICAL CHEMISTRY. A.B. Indiana, 36. Chemist, Dow Chem. Co, 37-44, prof. leader anal. chem, 44, asst. dir. spec. serv. lab, 44-69; RES. CHEMIST, helium res. ctr, U.S. BUR. MINES, Tex, 69-70, PITTSBURGH ENERGY RES. CTR, 70- Rep, Natural Gas Processors Assn, 55-; mem, Gas Assn. AAAS; fel. Am. Inst. Chem; Am. Chem. Soc. Gas analysis; catalyst research; physical properties and other reactions of gaseous materials. Address: Pittsburgh Energy Research Center, U.S. Bureau of Mines, 4800 Forbes Ave, Pittsburgh, PA 15213.
- HOBBS, BILLY F(RANKEL), b. Hiltons, Va, Mar. 5, 31; m. 53; c. 2. MATHEMATICS. B.S. Ball State Univ, 54, M.A., 55, summer, Ind. Univ, 57; Ph.D. Purdue Univ, 67. Teacher, pub. sch, Ind, 54-57; asst. prof. MATH. UNIV. Nazarene Col, 57-66, chmn. dept. 60-66; asst. prof. Purdue Univ, 67-69, prof. Olivet Nazarene Col, 67-70, PROF. & CHMN. DEPT. PASADENA CALIF. 70- Nat. Sci. Found. sci. faculty fel, 62-63, grad. fel, 64-65, grad. instr. 65-66. Am. Math. Soc; Math. Assn. Am. Topological and commutative algebra; general topology. Address: Dept. of Mathematics, Pasadena College, 1539 E. Howard St, Pasadena, CA 91104.
- HOBBS, C(HARLES) C(LIFTON), JR. b. Wewoka, Okla, Mar. 23, 27; m. 57; c. 3. ORGANIC CHEMISTRY. B.S. Oklahoma, 49, M.S. 51, Ph.D.(chem), 53. Res. chemist, Celanese Corp, Am, 52-56, sr. res. chemist, 56-58, res. assoc. explor. res. dept. 58-63, group leader, basic process res. dept. 63-67, SR. RES. ASSOC. CHEM. RES. DEPT. CELANESE CORP, Am, 67- U.S.A.F. 45-49, Res, 46-52. Am. Chem. Soc. Chromatography; oxidation of saturated hydrocarbons; derivatives of petroleum chemistry; organic electrochemistry; peroxygen chemicals; free radical reactions. Address: 1437 Casa Verde Dr, Corpus Christi, TX 78411.
- HOBBS, CHARLES H(ENRY), b. Longmont, Colo, Oct. 4, 42; m. 63; c. 2. VETERINARY MEDICINE. D.V.M. Colo. State Univ, 66. ASSOC. SCHEM.



- Dakota, 56-59, assoc. prof. 59-61; LA. STATE UNIV. BATON ROUGE, 61-63, PROF. MICROBIOL. 63- U.S.A.A.F. 42-45. Am. Soc. Microbiol.; N.Y. Acad. Sci. Physiology and biochemistry of microorganisms; enzymology. Address: Dept. of Microbiology, Louisiana State University, Baton Rouge, LA 70803.
- LARSON, ANDREW HESSLER, b. Peru, Ill. Sept. 14, 31; m. 55; c. 3. METALLURGY. B.S. Mo. Sch. Mines, 53, M.S. 54; Kroll fel. Missouri, 56-57, Union Carbide Corp. fel. 57-59, Ph.D.(metall.) 59. Asst. prof. metall. eng. Mo. Sch. Mines, 59-60, assoc. prof. 60-63; Colo. Sch. Mines, 63-67, prof. 67-68; sr. res. metallurgist, BUNKER HILL CO. 68-69, MGR. RES. & DEVELOP. 69- Ford Found. Prog. prod. specialist, Tex. Div. Dow Chem. Co. 66-67. U.S.A. 54-56. Am. Soc. Metals; Am. Inst. Mining, Metall. & Petrol. Eng. High temperature thermodynamic and kinetic studies of metallurgical systems involving the extraction and refining of metals. Address: Research & Development Labs, Bunker Hill Co. P.O. Box 29, Kellogg, ID 83837.
- LARSON, BERT O. b. Council Bluffs, Iowa, Feb. 2, 14; m. 40; c. 5. ENGINEERING, ENGINEERING DESIGN. B.S. Illinois, Urbana, 38, M.S. 40, C.E., 50. Instr. concrete & surv. graphics, Illinois, Urbana, 38-42; asst. engr. State Water Surv. Urbana, Ill. 39-42; PROF. ENG. DESIGN, UNIV. ILL., URBANA, 46- Prof. scientist, State Water Surv. Urbana, Ill. summers, 47-55. Eng.C. U.S.A. 42-46, Res. Lt. Col. AAAS; fel. Am. Soc. Civil Eng.; Am. Soc. Eng. Educ.; Am. Water Works Assn. Hydrology; reservoir sedimentation; water use; surface and subsurface runoff; investigation into and feasibility of wood aggregate-portland cement concrete; computer aided design. Address: 511 W. Pennsylvania, Urbana, IL 61801.
- LARSON, BRUCE L(ANDER), b. Minneapolis, Minn. June 24, 27; m. 54; c. 3. BIOLOGICAL CHEMISTRY. B.S. Minnesota, 48, Ph.D.(biochem), 51. Asst. Minnesota, 48-51; instr. BIOL. CHEM. UNIV. ILL. URBANA, 51-53, asst. prof. 53-59, assoc. prof. 59-66, PROF. 66- Fulbright lectr. Argentina, 65. AAAS; Am. Chem. Soc.(award, 66); Am. Soc. Biol. Chem.; Am. Soc. Cell Biol.; Am. Dairy Sci. Assn. Metabolism of milk formation. Address: Biochemistry Division, Dept. of Dairy Science, University of Illinois, Urbana, IL 61801.
- LARSON, CARL L(EONARD), b. Butte, Mont. Jan. 28, 09; m. 28; c. 2. BACTERIOLOGY. B.S. Mont. State Col. 32; B.M. Minnesota, 38, M.D. 39; Nat. Res. Coun. fel. Rochester, 38-39; hon. D.Sc. Montana State, 54. Res. assoc. snowshoe hare pop. bur. biol. surv. U.S. Dept. Agr. 32-38; asst. prof. med. bact. George Washington, 39; med. dir. lab. infectious diseases, Nat. Insts. Health, 39-50, dir. Rocky Mt. Lab. U.S. Pub. Health Serv. 50-65; PROF. MICROBIOL. 2 DIR. STELLA DUNCAN MEM. INST. UNIV. MONT. 65- Soc. Exp. Biol. & Med.; Am. Assn. Immunol.; Am. Pub. Health Assn.; Am. Acad. Microbiol.; N.Y. Acad. Sci. Immunology; tuberculosis. Address: Stella Duncan Memorial Institute, University of Montana, Missoula, MT 59801.
- LARSON, CARL WILLIAM, b. Pasadena, Calif. Mar. 6, 41; m. 62; c. 2. PHYSICAL CHEMISTRY. CHEMICAL ENGINEERING. B.S. Univ. Calif. Los Angeles, 63; M.S. San Diego State Col. 65; Nat. Sci. Found. fel. & Ph.D. (chem), Univ. Wash, 69. ASST. PROF. CHEM. ENG. UNIV. WASH. 69- Res. Corp. grant, Univ. Wash. 70-72, Am. Chem. Soc. grant, 70-73. AAAS; Am. Chem. Soc.; Am. Inst. Chem. Eng. Fundamental chemical kinetics; primary processes in thermal and chemically activated alkyl radical systems: photochemistry; kinetics of sulfur dioxide oxidation. Address: Dept. of Chemical Engineering, University of Washington, Seattle, WA 98105.
- LARSON, CARROLL BERNARD, b. Council Bluffs, Iowa, Sept. 10, 09; m. 35; c. 4. ORTHOPEDIC SURGERY. B.S. Iowa, 31, M.D. 33. Instr. ORTHOP. SURG. Harvard Med. Sch. 39-50. PROF. & HEAD DEPT. COL. MED. UNIV. IOWA, 50-, DIR. REHAB. 55- Jr. asst. Mass. Gen. Hosp. 39-45, sr. asst. 45-50; traveling fel. Gt. Brit. 48. Orthop. Res. Soc. Am. Acad. Orthop. Surg.(pres, 66-). Bone metabolism; development of arthroplastics. Address: Rehabilitation Unit, University of Iowa College of Medicine, Iowa City, IA 52240.
- LARSON, CHARLES C(ONRAD), b. Pettibone, N.Dak. Nov. 17, 14; m. 58; c. 2. FORESTRY ADMINISTRATION. B.S. Minnesota, 40; M.S. Vermont, 43; cert. Inst. Pub. Admin. N.Y. 50; Ph.D.(forestry admin), State Univ. N.Y. Col. Forestry, Syracuse, 52. Summer res. asst. Lake States Forest Exp. Sta. 40-41; asst. forest superv. Crosser Lumber Co. Ark. 44; res. & state exten. forester, Univ. Vermont, 44-47; res. assoc. Inst. Pub. Admin. N.Y. 48-49; res. assoc. forestry, STATE UNIV. N.Y. COL. ENVIRON. SCI. & FORESTRY, SYRACUSE, 50-58, assoc. prof. 58-61, PROF. WORLD FORESTRY, 61-, DIR. INT. FORESTRY, 65-, DEAN SCH. ENVIRON. & RESOURCE MGT, 71- Ford Found. overseas res. fel. 55; vis. prof. & proj. leader, Agency Int. Develop-State Univ. N.Y. Res. Found. assistance contract, col. forestry, Univ. Philippines, 59-62; consult. Syracuse Res. Inst. 57-59; mem. bd. dirs. Orgn. Trop. Studies, 71-; chmn. educ. comm. Int. Union Soc. Foresters, 71- Soc. Am. Foresters. Silviculture; forestry administration and economics; tropical vegetation; world forestry development with emphasis on the tropics. Address: School of Environmental & Resource Management, State University of New York College of Environmental Science & Forestry, Syracuse, NY 13210.
- LARSON, C(LARENCE) E(DWARD), b. Cloquet, Minn. Sept. 20, 09; m. 34; c. 1; m. 57; c. 2. CHEMISTRY. B.S. Minnesota, 32; Ph.D.(chem), California, 36. Instr. chem. California, 32-36; res. assoc. Mt. Zion Res. Found. Calif. 36-37; assoc. prof. chem. Col. of the Pacific, 37-39, prof. & head dept. 39-40; chief anal. sect. radiation lab. California, 40-43; head tech. staff, electromagnetic plant, Carbide & Carbon Chem. Co. Div. Union Carbide Corp. 43-46, dir. res. & develop. 46-48, sept. 49-50, dir. Oak Ridge Nat. Lab. 50-53, v.pres. in charge Res. Div. Carbon Co. Div. 53-58, assoc. mgr. res. admin. 59-61, v.pres. Union Carbide Nuclear Co. Div. 61-64, pres. nuclear div. Tenn. 65-69; COMNR. U.S. ATOMIC ENERGY COMM. WASH. D.C. 69- Am. Nuclear Soc. fel. 62; mem. bd. dirs. Oak Ridge Inst. Nuclear Studies, 63-65; del. UN Conf. Peaceful Uses of Atomic Energy. Civilian with Off. Sci. Res. & Develop. 42. AAAS; Am. Chem. Soc.; Soc. Exp. Biol. & Med.; Am. Nuclear Soc. Inorganic chemistry of biological systems; separation methods for isotopes; radiochemistry; analytical methods; uranium chemistry; colloids; chemical separation methods.
- LARSON, CURTIS L(UVERNE), b. Cottonwood, Minn. Oct. 10, 20; m. 44; c. 3. AGRICULTURAL & CIVIL ENGINEERING. B.Agr.E. Minnesota, 43, fel. 46, 48, M.S. 49; Ph.D.(civil eng), Stanford, 65. From instr. to asst. prof. AGR. ENG. INST. AGR. UNIV. MINN. ST. PAUL, 48-50, assoc. prof. 59-65, PROF. 65- U.S.N.R. 43-46, Lt. Am. Soc. Agr. Eng.; Am. Geophys. Union; Am. Water Resources Assn; Soil Conserv. Soc. Am. Surface water hydrology; watershed modeling; erosion control; water resources. Address: Dept. of Agricultural engineering, University of Minnesota, St. Paul, MN 55113.
- LARSON, D(ANIEL) A, b. Jersey City, N.J. July 7, 23; m. 51; c. 3. PHYSICS. B.S. St. Peter's Col.(N.J.), 44; N.C. State Col. 44-45; M.S. Stevens Inst. Technol. 56. Trance physics, Schenectady Res. Lab. Gen. Elec. Co., 47-48, physicist, Nela Park Lamp Div. 48-52; assoc. res. engr. LAMP DIV. WESTINGHOUSE ELEC. CORP. 52-57, res. engr. 57, sr. res. engr. 57-65, ENGR. FEL. RES. 65- U.S.A. 44-46. AAAS; Illum. Eng. Soc.; Optical Soc. Am. Low pressure discharges in metal vapor; fluorescent lamp discharges; high pressure discharges in mercury metal and metal iodides in high pressure discharges; optical pumps for lasers. Address: Westinghouse Lamp Divisions, Dept. 82012.4, One Westinghouse Plaza, Bloomfield, NJ 07003.
- LARSON, DANIEL L(EWIS), b. Sioux City, Iowa, Nov. 28, 21; m. 55; c. 4. MEDICINE. M.D. Columbia, 46. Intern. Med. Columbia-Presb. Hosp. 46-47, res. 47-50; instr. PHYSICIANS & SURGEONS, COLUMBIA UNIV. 50-52, assoc. 52-53, 55-57, ASST. PROF. 57-, DIR. MED. ST. BARNABAS HOSP. CHRONIC DISEASE, 65-, CLIN. DIR. 69- Markle scholar, 50-53, 55-57, Dipl. Am. Bd. Internal Med. U.S.A.R. 42-46, 53-55, Med.C. 55-, Lt. Col. AAAS; Am. Soc. Clin. Invest.; Soc. Exp. Biol. & Med.; Am. Med. Assn.; Am. Assn. Immunol.; Am. Rheumatism Assn; Harvey Soc. Immunochimistry; cardiology; rheumatic fever, systemic lupus erythematosus; connective tissue disease. Address: St. Barnabas Hospital for Chronic Disease, 4422 Third Ave, Bronx, NY 10457.
- LARSON, DAVID L, b. Moline, Ill. June 16, 42; m. 66. VIROLOGY. BIO-CHEMISTRY. B.A. Univ. North. Colo. 64; Nat. Insts. Health fel. & Ph.D. (biochem), St. Louis Univ. 70. Nat. Insts. Health fel. viral immunol. Johns Clin. & Res. Found. Calif. 69-71; SR. RES. INVESTR. VIROL. JOHN L. SMITH MEM. CANCER RES. PFIZER, INC. 71- AAAS; Am. Soc. Microbiol. Viral immunology and biochemistry; breast cancer; leukemia; lymphoma viruses; mechanism of action of estrogens. Address: John L. Smith Memorial for Cancer Research, Pfizer, Inc, 199 Maywood Ave, Maywood, NJ 07607.
- LARSON, D(ENIS) WAYNE, b. Prince Albert, Sask. Dec. 2, 38; m. 62; c. 3. PHYSICAL CHEMISTRY. B.A. Saskatchewan, 61 Nickel Co. Can. scholar 61-62, M.A. 62; Nat. Res. Coun. Can. scholar, Toronto, 62-65, Ph.D.(inorg chem), 65. Mem. res. staff, Can. Forces Inst. Aviation Med. 65-68; asst. prof. CHEM. UNIV. SASK, 68-71, ASSOC. PROF. 71- R.C.A.F. 57-66, Chem. Inst. Can. Kinetics; thermodynamics; mixed solvents; glycols; conductivity; viscosity studies. Address: Dept. of Chemistry, University of Saskatchewan, Regina, Sask, Can.
- LARSON, DONALD A(LFRED), b. Chicago, Ill. Sept. 15, 30; m. 53; c. 3. BOTANY. B.S. Wheaton Col.(Ill.) 53, M.S. Univ. Ill. 55, Ph.D.(bot), 59. Assoc. prof. BOT. UNIV. TEX. AUSTIN, 59-69, PROF. & DIR. HEALTH PROFESSIONS, 69- Bot. Soc. Am.; Am. Soc. Cell Biol. Electron microscopy; cytology; palynology; taxonomic uses; paleobotany. Address: WMOI 205, University of Texas, Austin, TX 78712.
- LARSON, DONALD B, b. Salina, Utah, Aug. 20, 34; m. 56; c. 5. HIGH PRESSURE PHYSICS. B.S. Utah State Univ. 57, M.S. 59; Ph.D.(physics), 63. S. PHYSICIST, LAWRENCE LIVERMORE LAB. UNIV. CALIF. 63- U.S.A. 51 1st Lt. High pressure solid state physics; high pressure properties of materials under shock-wave loading. Address: 5285 Irene Way, Livermore CA 94550.
- LARSON, DONALD CLAYTON, b. Wadena, Minn. Jan. 29, 34; m. 60; c. 3. SOLID STATE PHYSICS. B.S. Washington (Seattle), 56; S.M. Harvard, 57 Ph.D.(appl. physics), 62; Calif. Inst. Technol. 57-58. Asst. prof. PHYSIC UNIV. VA, 62-67; ASSOC. PROF. DREXEL UNIV. 67- Am. Phys. Soc. Electrical properties of metallic, organic and amorphous semiconducting films. Address: Dept. of Physics, Drexel University, Philadelphia, PA 19104.
- LARSON, DUANE L, b. Stoughton, Wis. June 19, 28; m. 58; c. 3. PLASTIC SURGERY, SURGERY. B.S. Wisconsin, 51, M.D. 54. Intern. Med. Col. V 54-55; gen. surg. residency, Wisconsin, 55-57, 59-61; plastic surg. residency, UNIV. TEX. MED. BR. GALVESTON, 61-64; instr. PLASTIC SURG. summer 64, asst. prof. 64-68, ASSOC. PROF. 68-; CHIEF SURGEON, SHRINERS BURNS INST. 65- Dipl. Am. Bd. Surg. 62; Am. Bd. Plastic S. 65. U.S.A. 57-59, Res. 59-68, Maj. AAAS; Am. Col. Surg.; Am. Fedn. Ch. Res.; Am. Med. Assn.; Plastic Surg. Res. Coun. Am. Soc. Head & Neck Sur. Am. Cleft Palate Assn; Am. Soc. Plastic & Reconstruct. Surg. Lymphatic burns. Address: Shriners Burns Institute, Galveston, TX 77550.
- LARSON, EDGAR W(ILLIAM), b. Argusville, N.Dak. Feb. 3, 26; m. 49; c. MICROBIOLOGY. B.S. Iowa State, 49. Chief lab. sect. test chamber br. U.S. Army Biol. Labs. 49-54, test chamber br. tech. eval. div. 54-55, 57 60, asst. dir. tech. serv. 60-64, chief tech. eval. div. 64-71, chief aerob. & eval. div. 71-72, AEROBIOL. SCIENTIST, AEROBIOL. DIV. U.S. ARMY MED. RES. INST. INFECTIOUS DISEASES, 72- Chem.C. U.S.A. 55-57. AAAS; Am. Soc. Microbiol.; Biomet. Soc.; Sci. Res. Soc. Am. Microbiol. quantitative aerobiology; experimental design and analysis. Address: Biology Division, U.S. Army Medical Research Institute of Infectious Diseases, Ft. Detrick, Frederick, MD 21701.
- LARSON, E(DWARD) R(ICHARD), b. N.Y.C. May 24, 20; m. 43; c. 3. GEOLOGY. B.A. Columbia, 42, M.A. 47, Ph.D.(geol.), 51. Jr. geologist, U.S. Geol. Surv. 43-44; asst. prof. geol. Mo. Sch. Mines, 47-49; UNIV. NEV. RENO, 53, assoc. prof. geol. & geog. 53-59, PROF. GEOL. 59-, chmn. dept. 59- U.S.A. 44-46. Geol. Soc. Am. Ann. Assn. Petrol. Geol. Structure, stratigraphy. Address: Dept. of Geology & Geography, University of Nevada, Reno NV 89507.

Or Surg & Chief Scoliosis Ser fall at  
Or Fell (Eng France & Scandinavia)  
Assoc Or Surg (Lenox Hill Hosp) (Mt  
Grad Sch Med (NYU) Assoc Clin Prof  
Capt MC USA 52-54. AMA-ACSF (F).  
10021  
hby Cert Ors 64. b 30 Mpls. MD Wash  
55-56 Res Surg (St Vincent's)  
57-61 Asst Att 64-- (both at NY Or  
Cons 65-- (Harlem Hosp). Assoc Prof  
omdr MC USN 61-64. AMA-AAOS-  
Washington Ave New York NY 10032  
J Townsend Cert Ors 140 W 79th St New  
NY  
eph Cert Ors 40. b 04 New London  
Hosp Minerva 29 Intern 29-30 Res  
osp Joint Dis Assoc Or Surg (Columbus  
Hosp). Lt Col MC AUS. AAOS(F)-  
Asst. 700 Park Ave New York NY  
Cert Ors 71. b 32 Altus Okla. MD  
Res in Gen Surg 65-66 now Asst Att  
NYC Res in Or Surg NY Or Hosp  
anderbilt Clin (both at Colum-Presbyn  
in Children's Or (Newington Childrens  
urg Colum P&S). 1st Lt AUS 54-56.  
rk NY 10019  
b 10 NYC. MD NYU 35 MS in Or Surg  
Hosp Jamaica NY 35-37 Asst Morbid  
41 Att Or (all at Mt Sinai Hosp NYC)  
39 Fell Or Surg (Childrens Hosp Iowa  
Children's Or Inst) Cons OC AUS 41-46  
ond Gen Hosps) (Mt Ord Reg Hosp).  
searchS. 1111 Park Ave New York NY  
5 71. b 37 Lubbock Texas. MD Tex 64.  
Baylor 64-65 Res in Gen Surg (Hosp of  
66-69 Sr Annie C Kane Fell in Hip Surg  
in Med Center-NY Or Hosp). Maj MC  
St New York NY 10032  
Ors 49. b 09 NYC. MD NYU 34. Intern  
Or Surg 43-44 Att Or Surg & Dir Club  
Foot & Ankle Clin (all at Hosp Spl Surg  
of Columbus O) 44-46 Att Or Surg  
of Clin Surg (Or) (Cornell). AMA. Spl  
Madison Ave New York NY 10021  
rs 66. b 28 Cin. MD Colum (P&S) 53.  
Center) 53-54 Asst Res Gen Surg (Pres-  
62 Annie C Kane Fell Hand Surg 62-63  
& Reconstructive Surg (Roosevelt Hosp)  
e's Hosp NYC) (St Giles's Hosp Bklyn).  
YMed). Capt MC USA 56-58. AMA-  
er 1090 Amsterdam Ave New York NY  
Ors 68. 133 E 73d St New York NY  
Cert Ors 69. b 34 NYC. MD Chgo 59.  
0-61 Res Or Surg 61-64 (all at Hosp Joint  
Chief Scoliosis Ser (Einstein Coll Hosp)  
iosis Ser 68-- (both at Bronx Municipal  
(Einstein) 68-- (Ithaca Coll Bronx) 68--  
East Chester Rd and 1300 Morris Park  
Ors 66. 940 Park Ave New York NY  
rs 63. b 26 Seattle. MD Roch 55. Intern  
Att Surg (all at NY Hosp) Res Or  
Exec Asst Surg-In-Chief (Hosp Spl Surg)  
& Allied Dis) 60. Clin Assoc Prof (Cor-  
Or Research Soc-AAA-AMA-AAOS-  
York NY 10021  
rt Ors 68. b 30 Eng. MD Cambridge U  
e Hosp London) 57-58 Tng (Royal Infir-  
Eng) Res (Royal Victoria Hosp) 58-60  
d Children) 60-61 (both Montreal Co  
Att Surg (both at Hosp for Spl Surg) Asst  
NYC). Instr 65-70 Asst Prof 70-- (Cor-  
71st St New York NY 10021  
Ors 63. b 24 London Eng. MD U Coll  
Super-Mare Hosp) 49-50 Res Surg (Adel-  
66-69 now Assoc Att (both at Hosp for  
mor Ser (Meml Hosp NYC) 60-61 Assoc  
ct (VA Hosp Bronx NY). Assoc Prof Or  
SA 53-56. AMA-AAOS-ACSF (F). 535 E  
121  
Cert Ors 53. b 21 NYC. MD NYU 44.  
Or Path Research Fell 50-51 Att (all at  
Res (Goldwater Meml Hosp) 46-47 Chief  
s) Chief Foot Ser (Mt Sinai Hosp NYC).  
4t Sinai Med Sch). Lt MC USNR 45-46  
Inc-Eastern Or Assn Inc-AMA-ACSF(F)-  
York NY 10028  
stantine L Cert Ors 51. b 16 Greece.  
er-Fifth Ave Hosp NYC) 42 (Fordham  
VA Hosp NYC) 46-48 Fell Or Surg (NY  
NY State Rehab Hosp) Assoc Att Or Surg  
Surg (Manhattan VA Hosp NYC) Cons  
ome) Or Cons (Inst Phys Med & Rehabi-  
rad (NYU). Capt MC AUS 43-46 Or Sect  
-AAOS(F)-ACSF(F)-ICSF(F). 27 W 96th St  
Ors 37. b 97 Heidelberg Germany. MD  
Cons Or Surg (Manhattan State Hosp)  
philia Center (Lenox Hill Hosp). AAOS-  
New York NY 10021  
Ors 66. b 26 NYC. MD Colum (P&S) 52.  
s) 52-53 Asst Res Surg (St Vincent's Hosp)  
7r Annie C Kane Fell 57-58 (both at NY  
Att Or Surg (Presbyn Hosp) (Colum-Pres-  
Surg (Colum P&S). AMA-AAOS. 622 W  
0032  
Ors 60. b 14 Kiev Russia. MD Warsaw  
Or Surg 52-53 Asst Vis Surg Or Ser 59--  
NY) Res Surg (Greenpoint Hosp Bklyn)  
scent's Hosp SI NY) 53-54 Res Or Surg  
12-71 (both at House St Giles the Cripple

Intern (Nathan Littauer Hosp) 35-36 Grad Student Or Surg (St  
Res Or Surg (VA Hosp Ft Howard Md) 46-47 Res Or Surg 47-49 Att  
Or Surg (both at Mt Sinai Hosp NYC) Or Surg (Blythedale Childrens  
Hosp Valhalla NY). Prof Clin Or (Mt Sinai Sch Med). Lt Col MC  
AUS 41-46. AMA-AAOS(F)-ACSF (F). Mount Sinai Hosp New York  
NY 10029  
KEIM Hugo Adam Cert Ors 68. b 35 Chgo. MD Loyola 60. Intern  
(Wesley Meml Hosp Chgo) 60-61 Res (Northwest-Cook Co Or Res  
Tng Program) 61-66 Dir Scoliosis Clins (Colum-Presbyn Med Center  
NY) 67-- Instr Or Surg (Northwest) 65-66 Instr Or Surg 68-70 Asst  
Prof Or Surg 70-- (both at Colum P&S). Capt MC AUS 66-68 Chief  
Prof Or Surg 70-- (both at Colum P&S). Capt MC AUS 66-68 Chief  
Or Surg (Munson Army Hosp Ft Leavenworth Kan) 67-68. Eastern  
Or Soc-AMA-Scoliosis Research Soc-AAOS-ACSF (F). 161 Fort  
Washington Ave New York NY 10032  
KFTLER Otto Colman Cert Ors 50. b 06 Bruck Austria. MD  
Budapest U 30. Int (Budapest U Hosp) 29-30 Res 30-32 Chief Res  
32-35 (both at Hosp for Crippled Children Budapest) Assoc Att Oph.  
Surg (Hosp Joint Dis). AMA-AAOS(F). 140 E 54th New York NY  
10022  
KLEIGER Bernard Cert Ors 47. b 11 Bklyn. MD Mich 36. Intern  
37-38 Clin Tng 38-41 Adj Or Surg Assoc Att Or Surg 51 Chm Rehab  
Unit 54 Att Or Surg 57-- Chm Med Adv Bd 67-- Chm Utilization Com  
61-- (all at Hosp Joint Dis NYC) Att Or Surg (Blythedale Childrens  
Hosp Valhalla NY). Vis Lect (Einstein of Yeshiva U Bronx NYC) Clin  
Prof Or Surg (Mt Sinai Sch Med NYC). Maj AUS 42-46. AMA-  
AAOS-ACSF(F)-ISOST(F)-SICOT-Royal S Health. 1150 Fifth Ave  
New York NY 10028  
KRIDA Arthur Cert Ors 37. b 88 Lodz Poland. MD Albany 11.  
Intern (Bell) 12-13 Cons Or Surg (Beth Israel Hosp) (Hosp Spl Surg)  
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- MURRAY, WILLIAM J(AMES), b. Janesville, Wis. July 20, 33; m. 55; c. 3. ANESTHESIOLOGY, PHARMACOLOGY. B.S. Wisconsin, 55, Ph.D.(pharmacol, toxicol), 59; M.D. North Carolina. 62. Instr. pharmacol, North Carolina, 59-62, fel. anesthesiol. 62-64, instr. anesthesiol. 64-65, asst. prof. anesthesiol, 65-68, ASSOC. PROF., 68-69; PHARMACOL. & ANESTHESIOLOGY, UNIV. MICH, ANN ARBOR, 69- Asst. to dir. drug equivalency. Food & Drug Admin. 68-69. Clinical pharmacology. Address: Dept. of Pharmacology, University of Michigan, M6322 Medical Science Bldg, Ann Arbor, MI 48104.
- MURRAY, W(ILLIAM) M(ac)GREGOR, b. Montreal, Que. Apr. 24, 10; nat; m. 49; c. 2. MECHANICAL ENGINEERING. B.E. McGill, 32; S.M. Mass. Inst. Technol. 33, Sc.D. 36. Instr. MECH. ENG. MASS. INST. TECHNOL. 35-40, asst. prof. 40-45, assoc. prof. 45-54, PROF. 54- Am. Soc. Test. & Mat; Soc. Exp. Stress Anal.(pres, 43, secy-treas, 44-60). Photoelasticity; strain gages; experimental stress analysis; testing materials; properties of materials. Address: Room 35-104, Massachusetts Institutes of Technology, Cambridge, MA 02139.
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- MURRAY, WILLIAM S(INGLER), b. Chicago, Ill, Aug. 16, 17. CHEMISTRY. B.S. Notre Dame, 39, M.S. 40, Ph.D.(org. chem), chemist, Jackson Lab, E.I. DU PONT DE NEMOURS & CO, chief super. plant tech. sect. Chambers Works, N.J. 51-60, Jackson Lab, Del, 60-64, process dept, CHAMBERS WORKS, SUPT, PETCHEM DIV. 70- AAAS; Am. Chem. Soc. Fluorine bonds; organometallics. Address: Petchemical Division, Chamber E.I. du Pont de Nemours & Co, Inc, Deepwater, NJ 08023
- MURRAY, WILLIAM (SPARROW), b. Wilkes Barre, Pa, July 11, c. 2. ENTOMOLOGY. B.S. Juniata Col, 50; M.S. Maryland, 51, (tom), 63. Agent entomologist, U.S. Dept. Agr, 51; dist. entomologist, Army Corps Eng, 52-55; entomologist, Norfolk Dist. U.S. Army, 58, dist. entomologist, River Commands, D.C. 58-62, entomologist, Navy, 63-64; consult. nat. pesticide prob, House Rep. U.S. Cong, 65; asst. exec. secy. Fed. Comt. Pest Control, 65-69; exec. secy. group pesticides, Pres. Cabinet Comt. Environ, 69-71; STATE HAZARDOUS MATS. ADV. COMT, ENVIRON. PROTECTION, CONSULT, nat. plant & animal disease & quarantine probs, Hag. Relations Comt, U.S. Cong, 67. Outstanding performance award, Navy, 63-64. U.S.N. 44-46. AAAS; Am. Inst. Biol. Sci; Entomol. Medical entomology; insect and other animal population control, particularly by chemosterilants; national pesticide problem; toxicology with emphasis on cytological and genetic effects. Address: 12111 Shire Way, Potomac Woods, Rockville, MD 20854.
- MURRELL, JAMES THOMAS, JR, b. Dickson, Tenn, Mar. 17, 42. SYSTEMATIC BOTANY. B.S. Austin Peay State Col. 64; Nat. Sci. Act fel. & Ph.D.(syst. bot), Vanderbilt Univ. 69. Nat. Insts. Health Univ. Miami, 68-69; ASST. PROF. BIOL, GEORGE PEABODY COL, Chemotaxonomy; allelopathy; pollination biology. Address: Dept. of George Peabody College for Teachers, Nashville, TN 37203.
- MURRELL, KENNETH DARWIN, b. Burley, Idaho, Jan. 19, 40; m. PARASITOLOGY, IMMUNOLOGY. A.B. Chico State Col, 62; U.S. Public Health Serv. trainee & M.S.P.H. Univ. N.C. Chapel Hill, 63, Nat. Sci. Health fel. & Ph.D.(parasitol), 69. Nat. Insts. Health trainee, Univ. Chicago, 69-71; RES. ZOOLOGIST, NAVAL MED. RES. INST, Med.Serv.C. U.S.N. 66-69, Lt. Am. Soc. Trop. Med. & Hyg; Am. Parasitol; Am. Inst. Biol. Sci; Wildlife Disease Assn. Fundamental aspects of immunity to animal parasites, particularly their direct effects on sites at the cellular level. Address: Naval Medical Research Institute, Bethesda, MD 20014.
- MURRELL, LAWRENCE LEE, b. Leadville, Colo, July 30, 42; m. ORGANIC CHEMISTRY. B.S. Colo. Sch. Mines, 64; Ph.D.(chem), Univ. Wis. Fel. chem, Univ. Wyo, 68-69; RES. CHEMIST, ESSO RES. & ENG. Am. Chem. Soc; The Chem. Soc. Organometallic reaction mechanism; automobile exhaust reactions on heterogeneous catalysts. Address: Research & Engineering Co, P.O. Box 45, Linden, NJ 07036.
- MURRELL, LEONARD R(ICHARD), b. Stamford Centre, Ont, June 17, ANATOMY. B.Sc. McMaster, 57, M.Sc. 58; U.S. Pub. Health trainee, Minnesota, Minneapolis, 58-63, Ph.D.(anat), 64. Asst. biol. McMaster, 58; instr. ANAT, Minnesota, Minneapolis, 64-65, asst. prof. 66-67, TENN. MED. UNITS, 67-68, ASSOC. PROF., 68- Am. Diabetes Assn. Univ. Minn, Minneapolis, 64-66. AAAS; Am. An. Anat. Am. Dual. Tissue Cult. Assn; N.Y. Acad. Sci; Can. Assn. Anat. Human anatomical diabetes; functional cytodifferentiation; organ culture of epithelial tissues; quantitative analysis of biological materials. Address: Dept. Anatomy, University of Tennessee Medical Units, 800 Madison Ave., Memphis, TN 38103.
- MURRELL, THOMAS A(LLEN), b. Lebanon, Ky, Feb. 18, 14; m. 51. ELECTRICAL ENGINEERING. B.S. Louisville, 36; fel. & Ph.D.(physics), 41. Econ. & construct. engr, Louisville Gas & Elec. Co. Asst. eng, Wisconsin, 37-41; mem. staff, radiation lab, Mass. Inst. Technol. 44; expert consult. Off. U.S. Secy. War, D.C. 44-47; asst. prof. chem. UNIV. ILL, URBANA, 47-52, assoc. prof. 52-69, PROF. COMPUT. Sci. Consult. res. & develop. bd, Nat. Mil. Estab. 48-51. Am. Phys. Soc. Inst. Elec. & Electronics Eng. Joule-Thomson effect in gases; electrical properties of semiconductors; applications of computers to engineering problems. Address: Dept. of Computer Science, College of Engineering, University of Illinois at Urbana, Urbana, IL 61801.
- MURRILL, EVELYN, b. Sheffield, Ala, Apr. 14, 30. ORGANIC CHEMISTRY, BIOCHEMISTRY. B.S. Fontbonne Col, 50; U.S. Pub. Health trainee, Minnesota, 60-62, Nat. Sci. Found. fcls. 62-64, Ph.D.(org. chem), 65. Prof. supvr, St. Joseph Hosp, 55-60; asst. prof. chem, Avila Col, 64-68; Am. CHEMIST, MIDWEST RES. INST, 68- Nat. Sci. Found. faculty fellow, Am. Chem. Soc. Natural products; kinetics; spectroscopy; biosynthesis; organic mechanisms; study of organic mesocrystalline substances. Address: Res. org: Midwest Research Institute, 425 Volker Blvd, Kansas City, MO 64110.
- MURRILL, PAUL W(HITFIELD), b. St. Louis, Mo, July 10, 34; m. 52. CHEMICAL ENGINEERING. B.S. Mississippi, 56; M.S. La. State, 62. (chem. eng), 63. Engr, Pittsburgh Plate Glass Co, 59-60; Ethyl Corp. electr. process control, LA. STATE UNIV, BATON ROUGE, 62-63, asst. prof. CHEM. ENG, 63-65, assoc. prof. 65-67, PROF., 67-, V.CHAMBERLAIN ACAD. AFFAIRS, 69-, PROVOST, 70-, head dept. 67-69, dean 69-70. Consult. ed, Int. Textbook Co, Pa, 65- U.S.N. 56-59, Res. Lt. Comdr. Am. Inst. Chem. Eng. Instrument Soc. Am; Am. Soc. Chem. Educ. Process control and dynamics; formulation of mathematical models and simulation techniques; dynamic aspects of unit operations in process industries. Address: Louisiana State University, Baton Rouge, 70808.
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64 & 65 (both at Kings Co Hosp) Res (VA Hosp) 66 & 68 (all Bklyn) Med Dir Pd Or (Queens NY) 69-71 Or Surg (St John's Hosp twn Gen Hosp) 70-- Capt MC USA mond RW Bliss Hosp Ft Huachuca Ariz) Ave Smithtown NY 11787

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OrS 65, b 21 Ireland. MD Natl U Ireland (Dublin Ireland) 44-45 Res (LI Coll Hosp) 57 (both Bklyn) Or Surg (Good Samaritan Hosp NY) (Rockland State Hosp Orange Spring Valley NY 10977  
Cert OrS 64, b 29 Germany. MD U Zurich (Jamaica NY) 56-57 Res Gen Surg (NY (NYU-Bell) 58 & 61 Res Childrens Or (Haverstraw) 59-60 Active Staff Dept Or (Suffern NY) (Nyack Hosp NY) (Madison (Ramapo Gen Hosp Spring Valley NY) (Orangeburg NY) (Leitchworth Village Hosp (F)-ACSF) 263 N Main St Spring Valley

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OrS 70, b 16 Claypool Ariz. MD U Belgrade (sp) 41-43 Res in Gen Surg 48-51 Res in Or osp) Tng in Pd Or (Newark Crippled Child-ep Chief Surg (USPHS Hosp Norfolk Va) Hosp Chgo) 57-61 Chief Or (USPHS Hosp Prof Or (NYMed) 70-- Med Dir USPHS (F)-Am Fracture Assn-Eastern Or Assn-oc-Am-Jugoslav Med Soc. USPHS Hosp  
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**Stony Brook**  
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**Suffern**  
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Harold W Cert OrS b 11 NYC. MD Roch n Hosp NJ) 36-38 Asst Res Surg 38 Res Or g Meml Hosp Rochester NY) Or Surg (Good (Nyack Hosp NY) (Tuxedo Meml Hosp NY) State Hosp Orangeburg NY) (Summit Park (Leitchworth Village Hosp Thiells NY) 68-42. Capt AUS 42-45 Or Surg (33d Gen Hosp). AMA. 180 Orange Ave Suffern NY  
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**Syracuse**  
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