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ALPEN, Edward L. PRINCIPAL INVESTIGATOR/PROGRAM DIRECTOR: [redacted]

BIOGRAPHICAL SKETCH

Give the following information for key professional personnel listed on page 2, beginning with the Principal Investigator/Program Director. Photocopy this page for each person.

NAME	TITLE	BIRTHDATE (Mo., Day, Yr.)
Alpen, Edward L.	Professor of Medical Physics	[redacted]

EDUCATION (Begin with baccalaureate or other initial professional education and include postdoctoral training)

INSTITUTION AND LOCATION	DEGREE (circle highest degree)	YEAR CONFERRED	FIELD OF STUDY
University of California, Berkeley	B.S.	1946	Chemistry
University of California, San Francisco	Ph.D.	1950	Pharmacology, Pharmaceutical Chemistry

RESEARCH AND/OR PROFESSIONAL EXPERIENCE: Concluding with present position, list in chronological order previous employment, experience, and honors. Include present membership on any Federal Government Public Advisory Committee. List, in chronological order, the titles and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. DO NOT EXCEED TWO PAGES.

Professional Experience

1950 - 1951	Assistant Professor of Pharmacology, George Washington University School of Medicine
1951 - 1954	Investigator in Biophysics, U. S. Naval Radiological Defense Laboratory
1954 - 1958	Head, Biophysics Branch, U. S. Naval Radiological Defense Laboratory
1958 - 1969	Director, Biological and Medical Sciences, U. S. Naval Radiological Defense Laboratory
1969 - 1971	Manager, Environmental and Life Sciences, Pacific Northwest Laboratory
1971 - 1972	Associate Director, Pacific Northwest Laboratory (Battelle Northwest)
1972 - 1975	Director, Pacific Northwest Laboratory, ERDA (Battelle Northwest)
1975 - present	Director, Donner Laboratory and Professor of Medical Physics, University of Calfornia, Berkeley, Lawrence Berkeley Laboratory

Publications (selected list)

Castro, J. R., C. A. Tobias, J. M. Quivey, G.T.Y. Chen, J. T. Lyman, T. L. Phillips, E. L. Alpen, and R. P. Singh. Results of tumor treatments with alpha particles and heavy ions at Lawrence Berkeley Laboratory. Europ J. Cancer (Suppl. 1), 67-74 (1979).

Tobias, C. A., E. L. Alpen, E. A. Blakely, J. R. Castro, A. Chatterjee, G.T.Y. Chen, S. B. Curtis, J. Howard, J. T. Lyman, and F. Q. H. Ngo. Radiobiological basis for heavy-ion therapy. Prospects for Treatment of Radioresistant Cancers, (M. Abe, K. Sakamoto, and T. L. Phillips, eds.) pp. 159-183. Amsterdam: Elsevier/North Holland Biomedical Press (19[illegible]

Kennedy, W. L., E. L. Alpen, and J. F. Garcia. Regulation of red blood cell production by erythropoietin. Normal mouse marrow in vitro. Exp. Hematol. 8, 1114-1122 (1980).

Peng, C. T., D. L. Horrocks, and E. L. Alpen. Liquid Scintillation Counting Vol. I: Physical Aspects. Vol II: Sampling Preparation and Applications. New York: Academic Press (1980).

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PRINCIPAL INVESTIGATOR/PROGRAM DIRECTOR: [redacted]PEN, Edward L.

BIOGRAPHICAL SKETCH

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NAME	TITLE	BIRTHDATE (Mo., Day, Yr.)
BFABRIKANT, Jacob I.	Radiotherapist	[redacted]

EDUCATION (Begin with baccalaureate or other initial professional education and include postdoctoral training)

INSTITUTION AND LOCATION	DEGREE (circle highest degree)	YEAR CONFERRED	FIELD OF STUDY
McGill University, Montreal Canada	B.S.	1952	Chemistry
McGill University, Montreal Canada	M.D., C.M	1956	Medicine
University of London, England	Ph.D.	1964	Biophysics

RESEARCH AND/OR PROFESSIONAL EXPERIENCE: Concluding with present position, list in chronological order previous employment, experience, and honors. Include present membership on any Federal Government Public Advisory Committee. List, in chronological order, the titles and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. DO NOT EXCEED TWO PAGES.

Professional Experience

1952: B.Sc., Chemistry (magna cum laude), McGill University, Canada. 1956: M.D., C.M., Medicine, McGill University, Canada. 1964: Ph.D., Biophysics, University of London, England. 1978: F.A.C.R., Fellow, American College of Radiology. 1956-58: Intern and Fellow, Depts. of Surgery and Pathology, Duke University Hospital and School of Medicine. 1958-61: Resident and Fellow in Radiology, Dept. of Radiology, The Johns Hopkins University Hospital and School of Medicine. 1961-65: Advanced Fellow in Academic Radiology, The James Picker Foundatin, National Academy of Sciences-National Research Council (NAS-NRC), Dept. of Physics, Institute of Cancer Research, University of London; The Johns Hopkins University School of Medicine and School of Hygiene and Public Health. 1964-70: Assistant Professor to Associate Professor of Radiology and Radiological Science, The Johns Hopkins University Hospital School of Medicine and School of Hygiene and Public Health. 1967-74: Committee on Radiology, NAS-NRC. 1969-72: Advisory Committee on Biological Effects of Ionizing Radiation (BEIR I), NAS-NRC. 1970-75: Professor and Head, Dept. of Radiology, The University of Connecticut School of Medicine. 1972-76: Committee on Biological Effects of Ionizing Radiation (BEIR II), NAS-NRC. 1975-78: Professor and Chairman, Dept. of Diagnostic Radiology, Faculty of Medicine, McGill University; Diagnostic Radiologist-in-Chief, Dept. of Diagnostic Radiology, The Montreal General Hospital. 1976-80: Committee on Biological Effects of Ionizing Radiation (BEIR III), NAS-NRC. 1978-: Staff Senior Scientist, University of California, Lawrence Berkeley Laboratory, Berkeley. 1978-: Professor of Radiology, University of California School of Medicine, San Francisco. 1979: President's Commission on the Accident at Three Mile Island, Director, Public Health and Safety. 1980-: Professor, Graduate Biophysics, Dept. of Biophysics and Medical Physics, University of California, Berkeley. 1980-: International Commission on Radiological Protection, Committee 1. 1982-: Advisory Committee on Radiological Health Effects, Nuclear Regulatory Commission-Harvard University School of Public Health. 1982: Committee on Federal Research on the Biological and Health Effects of Ionizing Radiation, NAS-NRC. 1982-: Committee to Review Portsmouth Naval Shipyard Cytogenetics Protocol, NAS-NRC. 1983-: Oversight Committee on the Radioepidemiologic Tables, NAS-NRC. 1983-: Board on Research on Effects of Radiation, NAS-NRC.

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ALPEN, Edward L. [redacted]

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Fabrikant JI, Holley WR, McFarland EW, Tobias CA:Heavy-ion radiography and heavy-ion computed tomography. Lawrence Berkeley Laboratory Rpt. LBL-14001, 1982.
Fabrikant JI:Radiation carcinogenesis in man: Influence of dose-response models and risk projection models in the estimation of risk coefficients following exposure to low-level radiation. In Radiological Protection--Advances in Theory & Practice, Scot.I:39-47, 1982
Fabrikant JI, Holley WR, McFarland EW, Tobias CA: Heavy-ion radiography and heavy-ion computed tomography.In Radiological Protection--Advances in Theory & Practice, Scotland, I:175-180, 1982.
Fabrikant JI: Decision-making and radiological protection at Three Mile Island: Response of the Dept. of Health, Education and Welfare. In Radiological Protection--Advances in Theory & Practice, Scotland,II:756-763, 1982.
Fabrikant JI: The health effects in women exposed to low levels of ionizing radiation. Lawrence Berkeley Laboratory Rpt. LBL-14198, 1982.
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Fabrikant JI: Carcinogenesis and low-level ionizing radiation with special reference to lung cancer and exposure to radon daughters. Lawrence Berkeley Lab Rpt. LBL-14772, 1982.
Benton EV, Henke RP, Tobias CA, Holley WR, Fabrikant JI, Henshaw DL: Charged particle radiography and computed tomography. In Solid State Nuclear Track Detectors, Fowler PH, Clapham VM, eds., pp. 661-666, Pergamon Press, Oxford, 1982.
Holley WR, Fabrikant JI, Tobias CA, Benton EV: The physics of heavy-ion radiography and heavy-ion computed tomography. In International Workshop on Physics and Engineering in Medical Imaging, IEEE, Computer Society Press, Los Angeles, 1982.
Fabrikant JI: The effects of the accident at Three Mile Island on the mental health and behavioral responses of the general population and nuclear workers. Health Phys. Vol. 45, pp. 579-586, 1983.
Fabrikant JI: Is nuclear energy an unacceptable hazard to health? Health Phys. Vol. 45, pp. 575-578, 1983.
Tobias CA, Chu W, Chatterjee A, Benton EV, Fabrikant JI, Holley WR, Schmidt J, Blakely E, Hayes TL: Special topics in heavy-ion research. In Pion and Heavy-ion Radiotherapy: Pre-clinical and Clinical Studies. Skarsgaard L, ed., Elsevier, New York, 1983 (in press).
Fabrikant JI: Radiation and health. West. J. Med. 138, pp. 387-390, 1983.
Fabrikant JI: Nuclear energy, public health and public policy. Health Phys.1984 (in press)
Lyman JT, Kanstein L, Yeater F, Fabrikant JI and Hosobuchi Y: A helium-ion beam for stereotactic radiosurgery. Med. Phys. 1984 (in press).
Fabrikant JI, Lyman JT and Hosobuchi Y: Stereotactic heavy-ion Bragg peak radiosurgery for intracranial vascular disorders. In Neurosrugery. Wilkins RH, ed., 1984 (in press).
Fabrikant JI, Lyman JT, Hosobuchi Y: Stereotactic heavy-ion Bragg peak radiosurgery: Method for treatment of deep arteriovenous malformations. Br. J. Radiology, 1984 (in press).

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BIOGRAPHICAL SKETCH

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NAME	TITLE	BIRTHDATE (Mo., Day, Yr.)
Tobias, Cornelius A.	Professor of Biophysics, Medical Physics & Radiology	[redacted]

EDUCATION (Begin with baccalaureate or other initial professional education and include postdoctoral training)

INSTITUTION AND LOCATION	DEGREE (circle highest degree)	YEAR CONFERRED	FIELD OF STUDY
Hungarian University for Electrical and Technical Science		1939	
University of California, Berkeley	M.A.	1940	Physics
University of California, Berkeley	Ph.D.	1942	Nuclear Physics

RESEARCH AND/OR PROFESSIONAL EXPERIENCE: Concluding with present position, list in chronological order previous employment, experience, and honors. Include present membership on any Federal Government Public Advisory Committee. List, in chronological order, the titles and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. DO NOT EXCEED TWO PAGES.

Professional Experience

1942 - 1945	Physicist, Donner Laboratory/Lawrence Radiation Laboratory, University of California, Berkeley
1945 - 1947	Instructor of Medical Physics, University of California, Berkeley
1947 - 1949	Assistant Professor of Medical Physics, University of California, Berkeley
1949 - 1955	Associate Professor of Medical Physics, University of California, Berkeley
1961 - 1971	Chairman, Division of Medical Physics, University of California, Berkeley
1978 - 1980	Chairman, Graduate Group in Biophysics and Medical Physics, University of California, Berkeley
1951 - present	Professor of Biophysics and Medical Physics, University of California, Berkeley; Senior Staff Scientist, Lawrence Berkeley Laboratory
1978-present	Professor of Radiology, University of California, San Francisco

Awards and Honors

1956	Guggenheim Fellowship, Sabbatical year at the Karolinska Institute, Stockholm, Sweden
1963	E. O. Lawrence Memorial Award
1972	American Nuclear Society, Aerospace Division Annual Award
1982	Alexander von Humbolt Award (Sabbatical year, GSI, Darmstadt, Germany)
1983	Failla Memorial Lecture, Radiation Research Society

Publications (selected list)

Benton, E. A. and C. A. Tobias. Tunga joner avslojar tumorer. Forskning och Fransteg 5, 34-37 (1982).

Benton, E. A., R. P. Henke, C. A. Tobias, W. R. Holley, J. I. Fabrikant, and D. L. Henshaw. Charged particle radiography and computerized tomography. Solid State Nuclear Track Detectors (P. H. Fowler and V. M. Clapham, eds.), pp. 661-666. New York: Pergamon Press, 1982.

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Castro, J. R., W. M. Saunders, C. A. Tobias, G. T. Y. Chen, S. B. Curtis, J. T. Lyman, J. M. Collier, S. Pitluck, K. H. Woodruff, E. A. Blakely, T. S. Tenforde, D. Char, T. L. Phillips, and E. L. Alpen. Treatment of cancer with heavy charged particles. Int. J. Radiat. Biol. Oncol. Phys. 8, 2191-2198 (1982).

Chatterjee, A., W. R. Saunders, E. L. Alpen, J. Alonso, J. Scherer, and J. Llacer. Physical measurements with high energy radioactive beams. Radiat. Res. 92, 230-244 (1982).

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Chu, W. T., J. R. Alonso, and C. A. Tobias. Imaging with a multiplane multiwire proportional chamber using heavy-ion beams. Proceedings, International Workshop on Physics and Engineering in Medical Imaging, pp. 221-224. Los Angeles: IEEE Computer Society Press, 1982.

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Tobias, C. A. Heavy-ion radiography. Encyclopedia of Technology. New York: McGraw-Hill, 1982.

Tobias, C. A., E. A. Blakely, E. L. Alpen, J. R. Castro, E. J. Ainsworth, S. B. Curtis, F. Q. H. Ngo, A. Rodriguez, R. Roots, T. S. Tenforde, T. C. Yang. Molecular and cellular radiobiology of heavy ions. Int. J. Radiat. Oncol. Biol. Phys. 8, 2109-2120 (1982).

Yang, T. C. and C. A. Tobias. Studies on the survival frequencies of irradiated mammalian cells with and without cancer cell morphology. Proceedings, Conference on Statistics and Cancer, 6-7 July 1981 (J. Neyman and L. LeCam, eds.). Amsterdam: North Holland Publishing Co., 1982.

Castro, J. R., W. M. Saunders, C. A. Tobias, G. T. Y. Chen, J. M. Collier, S. Pitluck, J. T. Lyman, K. H. Woodruff, E. A. Blakely, T. L. Phillips, and E. L. Alpen. Clinical experience with heavy ion beams at Lawrence Berkely Laboratory. Pion and Heavy Ion Radiotherapy: Pre-Clinical and Clinical Studies (L. D. Skarsgard, ed.), pp. 385-394. New York/Amsterdam: Elsevier Biomedical, 1983.

Tobias, C. A., W. Chu, A. Chatterjee, E. V. Benton, J. Fabrikant, W. Holley, J. Schmidt, E. Blakely, and T. A. Hayes. Special topics in heavy ion research. Pion and Heavy Ion Radiotherapy: Pre-Clinical and Clinical Studies (L. D. Skarsgard, ed.), pp. 169-193. New York/Amsterdam: Elsevier Biomedical Press, 1983.

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