

BIOGRAPHICAL SKETCH

Give the following information for the key personnel and consultants listed on page 2. Begin with the Principal Investigator/Program Director. Photocopy this page for each person.

NAME	POSITION TITLE	BIRTHDATE (Mo., Day, Yr.)
Jerome J. Solomon	Research Associate Professor	4/23/45
EDUCATION (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)		
INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED
Brooklyn College, Brooklyn, NY	B.S.	1966
Cornell University, Ithaca, NY	Ph.D.	1972
		FIELD OF STUDY
		Chemistry
		Physical Chemistry

RESEARCH AND 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.

Experience:

1966-1968	Teaching Assistant, Undergraduate Physical Chemistry, Cornell University
1968-1972	Research Assistant Cornell University
1972-1975	Research Associate, Rockefeller University
1975-1977	Associate Research Scientist, Institute of Environmental Medicine, New York University Medical Center
1977-1983	Assistant Professor, Institute of Environmental Medicine, New York University Medical Center
1983-Present	Research Associate Professor, Institute of Environmental Medicine, New York University Medical Center

Representative Publications:

- Solomon, J.J. and R.F. Porter. Chemical Ionization Mass Spectrometry of Selected Boron Hydrides. *J. Amer. Chem. Soc.*, **94**:1443-1450, 1972.
- Solomon, J.J. and F.H. Field. Reversible Reactions of Gaseous Ions, VIII. The $t\text{-C}_4\text{H}_9^+$, $(1\text{-C}_5\text{H}_{12}, 1\text{-C}_4\text{H}_{10})t\text{-C}_5\text{H}_{11}^+$ System. *J. Amer. Chem. Soc.*, **95**:4483-4486, 1973.
- Solomon, J.J., M. Meot-Ner and F.H. Field. Kinetics, equilibrium and negative temperature dependence in the bimolecular reaction $t\text{-C}_4\text{H}_9^+(1\text{-C}_5\text{H}_{12}, 1\text{-C}_4\text{H}_{10})t\text{-C}_5\text{H}_{11}^+$ between 190 and 570°K. *J. Amer. Chem. Soc.*, **96**:3727-3732, 1974.
- Meot-Ner, M., J.J. Solomon, F.H. Field and H. Garshinowitz. On the negative temperature dependence of slow ion-molecule reactions. *J. Phys. Chem.*, **78**:1773-1774, 1974.
- Solomon, J.J. and F.H. Field. Reversible reactions of gaseous ions. IX. The stability of $\text{C}_4\text{-C}_7$ tertiary alkyl carbonium ions. *J. Amer. Chem. Soc.*, **97**:2625-2628, 1975.
- Meot-Ner, M., J.J. Solomon and F.H. Field. Stability of some C_7 tertiary alkyl carbonium ions. *J. Amer. Chem. Soc.*, **98**:1025-1026, 1976.
- Solomon, J.J. and F.H. Field. Reversible reactions of gaseous ions. X. The intrinsic stability of the norbornyl cation. *J. Amer. Chem. Soc.*, **98**:1567-1569, 1976.
- Tseng, S.S., B.L. Van Duuren and J.J. Solomon. Synthesis of 4 α -phorbol-9-myristate-9a-acetate and related esters. *J. Org. Chem.*, **42**:3645-3649, 1977.
- Mate, U., J.J. Solomon and A. Segal. In vitro binding of S-propiolactone to calf thymus DNA and mouse liver DNA to form 1-(2-carboxyethyl)adenine. *Chem.-Biol. Interactions*, **18**:327-336, 1977.
- Solomon, J.J., B.L. Van Duuren and S.S. Tseng. Chemical Ionization mass spectrometry of the tumor promoter-related 4 α -phorbol esters. *Biomed. Mass Spectrom.*, **5**:164-169, 1978.