

### BIOGRAPHICAL SKETCH

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

NAME	POSITION TITLE		BIRTHDATE (Mo., Day, Yr.)
Jerome J. Solomon	Research Associate Professor		4/23/45
<u>EDUCATION</u> (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training)			
INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED	FIELD OF STUDY
Brooklyn College, Brooklyn, NY Cornell University, Ithaca, NY	B.S. Ph.D.	1966 1972	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-C<sub>4</sub>H<sub>9</sub><sup>+</sup>, (i-C<sub>3</sub>H<sub>7</sub>, i-C<sub>4</sub>H<sub>10</sub>)t-C<sub>5</sub>H<sub>11</sub><sup>+</sup> 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 biomolecular reaction t-C<sub>4</sub>H<sub>9</sub><sup>+</sup>(i-C<sub>3</sub>H<sub>7</sub>, i-C<sub>4</sub>H<sub>10</sub>)t-C<sub>5</sub>H<sub>11</sub><sup>+</sup> 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 C<sub>7</sub>-C<sub>7</sub> 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<sub>7</sub> 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 4α-phorbol-9-myristate-9α-acetate and related esters. *J. Org. Chem.*, 42:3645-3649, 1977.
- Mata, U., J.J. Solomon and A. Segal. *In vitro* binding of 8-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 4α-phorbol esters. *Biomed. Mass Spectrom.*, 5:164-169, 1978.