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EDUCATION:

Ph. D., 1991, Institute of Chemistry, Chinese Academy of Sciences, Beijing, China.

PROFESSIONAL EXPERIENCES:

8/2000-, Research Scientist/Research Associate, MDS Sciex/York University, Canada.

1/1999-8/2000, Postdoctoral Research Associate: Department of Chemistry, York University, Toronto, Canada. (Prof. K. W. Michael Siu).

4/1997-12/1998, Postdoctoral Fellowship: Department of Chemistry, York University, Toronto, Canada. (Prof. Diethard K. Bohme).

10/1993 - 3/1997, Postdoctoral Fellowship: Department of Physical Chemistry, The Hebrew University of Jerusalem, Jerusalem, Israel. (Prof. Chava Lifshitz).

1991-1993, Assistant Professor: Department of Chemistry, Beijing Polytechnic University, Beijing, China.

SELECTED PUBLICATIONS:

1. **Ling, Y.**, Milburn, R. K., Hopkinson, A. C., Bohme, D., Experimental and Theoretical Studies of the Basicity and Proton Affinity of SiF₄ and the Structure of SiF₄H⁺. *J. Am. Soc. Mass Spectrom.*, **1999**, 10, 848-855.
2. **Ling, Y.**, Bohme, D. K. Selected-Ion Flow Tube Studies of Reactions of C₆₀ⁿ⁺ (n=1,2,3) with vinyl fluoride: polymerization initiated by C₆₀³⁺. *Eur. Mass Spectrom.*, **1999**, 5, 471-475.
3. **Ling, Y.**, Koyanagi, G. K., Caraiman, D., Hopkinson, A. C., Bohme, D., Selected-Ion Flow Tube Studies of Reactions of C₆₀ⁿ⁺ (n=1,2,3) with Chlorinated Ethylenes. *Int. J. Mass. Spectrom.*, **1999**, 192, 215-223.
4. **Ling, Y.**, Koyanagi, G. K., Caraiman, D., Baranov, V., Bohme, D., Chlorination of Charged Buckyballs: Reactions of C₆₀ⁿ⁺ (n=1,2,3) with Cl₂, CCl₄, CCl₃, CH₂Cl₂ and CH₃Cl. *Int. J. Mass. Spectrom.*, **1999**, 182/183, 349-356.
5. **Ling, Y.**, Lifshitz, C., Energetics of the Cyclo(Pro-Gly) Cation Fragmentation-A Mass-Spectrometric Study and Theoretical Calculations, *J. Mass Spectrom.*, **1998**, 33, 25-34.

6. **Ling, Y.**, Lifshitz, C., Time-Dependent Mass Spectra and Breakdown Graphs 21. $C_{14}H_{10}^+$ Isomers, *J. Phys. Chem. A*: **1998**, 102, 708-716.
7. **Ling, Y.**, Lifshitz, C., C-H Bond Energy of the Triphenylene Radical-Cation - A Photoionization Mass Spectrometry Study, *J. Mass Spectrom.*, **1997**, 32, 1219-1225.
8. **Ling, Y.**, Martin, J. M. L., Lifshitz, C., Time-Dependent Mass Spectra and Breakdown Graphs 20. Bromoanthracene. Heat of Formation of Anthracenyl Ion., *Int. J. Mass. Spectrom. Ion Processes*, **1997**, 160, 39-48.
9. **Ling, Y.**, Lifshitz, C., Plasmon Excitation in Polycyclic Aromatic Hydrocarbon, *Chem. Phys. Lett.* , **1996**, 257, 587-591.
10. **Ling, Y.**, Lifshitz, C., Time-Dependent Mass Spectra and Breakdown Graphs 19. Fluoranthene, *J. Phys. Chem.*, **1995**, 99, 11074-11080.
11. **Ling, Y.**, Gotkis, Y., Lifshitz, C., Time-Dependent Mass Spectra and Breakdown Graphs 18. Pyrene, *Eur. Mass Spectrom.* **1995**, 1, 41-49.

SELECTED PRESENTATIONS:

1. **Ling, Y.**, Javahery, G., Siu, K. W. M., Collision Cross Sections of Apometallothioneins and Metal-Containing Metallothioneins Probed by a Segmented Quadrupole Mass Spectrometer. The 48th ASMS Conference on Mass Spectrometry and Allied Topics, Long Beach, California, June 11 – 15, **2000**.
2. **Ling, Y.**, Cunje, A., Hopkinson, A. C., Bohme, D., Experimental and Theoretical Studies of Methyl Cation Transfer among Ar, Kr, Xe, HF, N_2 and CH_3F : Methyl-Cation Affinities. The 47th ASMS Conference on Mass Spectrometry and Allied Topics, Dallas, Texas, June 13 – 17, **1999**.

Yun Ling brought a diverse mass spectrometry background to his work at York University Combinatorial Facility. His Ph. D. research involved the development of time-of-flight (TOF) mass spectrometer and time-of-flight (TOF) photoelectron spectrometer for studying the ionization and dissociation of small molecules. His postdoctoral research with Prof. Lifshitz at Hebrew University focused on the energetics and kinetics of organic molecules with VUV photoionization –quadrupole mass spectrometer, time-of-flight mass spectrometer and double focusing mass spectrometer. His research with Prof Bohme at York University involved the ion/molecules reactions using selected-ion flow tube (SIFT) instrument and quadrupole MS. In Prof. Siu's lab at York University, he focused on development of a novel segmented RF collision cell on triple quadrupole mass spectrometer for structure determination of peptide and protein by collision cross section measurement. He was involved in several projects on instrumentation and application of triple quadrupole mass spectrometer.

At the York University Combinatorial Chemistry Analytical Facility, Yun will be working with other researchers to develop methods for analyzing combinatorial chemistry samples by LC-MS. He will also work with other researchers to develop MS-based method for high throughput drug screening.