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**DATE AND PLACE OF BIRTH:** 3 December 1941, Binghamton, New York, USA

**EDUCATION:** Ph.D., Chemistry, Syracuse University, 1968

 B.S., Chemistry, Carnegie Mellon University, 1964

**DISSERTATION:** A Study of the Electronic and Magnetic Properties of Some First Row

Transition Metal Complexes

**RESEARCH INTERESTS:**

1. The study of the electronic, magnetic, and Mössbauer spectral properties of magnetically

 coupled transition metal complexes at ambient and high pressure.

2. Mössbauer spectroscopy of iron, tin, antimony, and europium organometallic compounds.

3. Mössbauer-effect and x-ray absorption spectroscopic and neutron and x-ray diffraction

 studies of transition metal complexes, hard permanent magnetic materials, nano-structured

 materials, and thermoelectric materials.

**ACADEMIC EXPERIENCE**:

 Assistant Professor of Chemistry, University of Missouri-Rolla, September 1968.

 Associate Professor of Chemistry, University of Missouri-Rolla, September 1974.

 Professor of Chemistry, University of Missouri-Rolla, August 1982.

 Emeritus Professor of Chemistry, University of Missouri-Rolla, December 2019.

 National Institutes of Health Doctoral Research Fellow, Syracuse University, 1966-68.

 Visiting Research Associate, Nuclear Physics Division, Atomic Energy Research Establishment,

 Harwell, England, May-June 1976, May-June 1977, May-June 1978; June, August 1979;

 May-August 1980; May-June 1981.

 NATO Visiting Professor of Chemistry, Instituto di Chimica e Technologia dei

 Radioelementi del CNR, University of Padova, Padova, Italy, June-August 1983.

 Science and Engineering Research Council Research Fellow, Department of Physics,

 University of Liverpool, Liverpool, England, 1983-1984.

 Visiting Professor of Chemistry, Dipartimento di Chimica Inorganica, Metallorganica

 ed Analitica, Universita degli Studi di Padova, Padova, Italy, 1986-1988.

 Visiting Professor of Chemistry, Department of Inorganic, Analytical and Applied Chemistry,

 University of Geneva, Geneva, Switzerland, June-August 1988.

 J. William Fulbright Scholar, Université de Liège, Sart-Tilman, Belgium, September 1993-

 February 1994.

 Chaire Francqui Interuniversitaire au titre étranger, the International Francqui Chair,

 Université de Liège, Belgium, 2002-2003.

 Recipient of the 2018 IBAME Science Award from the International Board on the Applications of

 the Mössbauer Effect.

**PROFESSIONAL AFFILIATIONS**:

 American Chemical Society

 Fellow of the American Association for the Advancement of Science, 2025

 Fellow, The Royal Society of Chemistry

 Phi Lambda Upsilon

 Society of the Sigma Xi

**REFEREED PUBLISHED PAPERS**:

 1. W. A. Baker, Jr. and G. J. Long, “Infrared Spectra of Some Magnetically Anomalous Iron(II)

 Complexes,” *J. Chem. Soc., Chem. Commun.*, 368 (1965).

 2. W. M. Reiff, G. J. Long, and W. A. Baker, Jr., “On the Nature of the Spin States in Some

 Binuclear Iron(III) Complexes,” *J. Am. Chem. Soc.*, **90**, 6347 (1968).

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 “Preparation, Electronic Properties, and Structure of a Binuclear Iron(III) Complex Containing

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 for Fe(quinoline)2Cl2,” *J. Inorg. Nucl. Chem.*, **33**, 1196 (1971).

 6. G. J. Long, D. L. Whitney, and J. E. Kennedy, “A Study of the Electronic and Structural

 Properties of Bis(pyridine)dichloroiron(II),” *Inorg. Chem.*, **10**, 1406 (1971).

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 High-Spin Iron(II) Complexes,” *J. Chem. Soc.*, *A*, 2956 (1971).

 8. J. R. Teague, C. M. Yagnik, G. J. Long, R. Gerson, and L. D. Lafleur, “Mössbauer Effect and

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 9. G. J. Long, W. T. Robinson, W. P. Tappmeyer, and D. L. Bridges, “The Magnetic, Electronic,

 and Mössbauer Spectral Properties of Several Trinuclear Iron(III) Carboxylate Complexes,”

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10. G. J. Long and J. R. Ferraro, “A Study of the Pressure Induced Irreversible Conversion of

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11. G. J. Long, L. J. Basile, and J. R. Ferraro, “A Semimicro-Sampling Technique for Resonance

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12. R. C. Dickinson and G. J. Long, “Transition Metal Chemistry of Quinuclidinone-Containing

 Ligands. II. Spectral and Magnetic Properties of Some Transition Metal Complexes Containing

 2-(N-Morpholinylmethyl)-3-quinuclidinone and Related Ligands,” *Inorg. Chem.*, **13**, 262 (1974).

13. G. J. Long and D. L. Coffen, “Transition Metal Chemistry of Quinuclidinone-Containing

 Ligands. III. Electronic and Structural Properties of Several Transition Metal Complexes

 Containing trans-2-(2'-Quinolyl)methylene-3-quinuclidinone,” *Inorg. Chem.*, **13**, 270 (1974).

14. G. J. Long and E. O. Schlemper, “Transition Metal Chemistry of Quinuclidinone-Containing

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 nickel(II), a Five-Coordinate Binuclear Complex,” *Inorg. Chem.*, **13**, 279 (1974).

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 Containing Ligands. VII. Cobalt(II) and Nickel(II) Thiocyanate Complexes of 2-(N-Morpholinyl-

 methyl)-3-quinuclidinone,”*J. Inorg. Nucl. Chem.*, **36**, 1235 (1974).

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 ne]cobalt(II),” *J. Chem. Soc*., *Dalton Trans.*, 96 (1975).

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 Transition-Metal Chemistry of Quinuclidinone-Containing Ligands. Part VI. A Study of

 the Thermal Properties of Several Complexes with trans-2-(2'-Quinolyl)methylene-

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 Linear Chain Systems: Metamagnetism of Single Crystal Co(pyridine)2Cl2,” *J. Chem. Phys.*,

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 and Tetrakis(pyridine)iron(II) Complexes,” *Inorg. Chem*., **17**, 3401 (1978).

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 Iron(II) Halide Complexes Containing l-Sparteine,” *Inorg. Chim. Acta*, **30**, 221 (1978).

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 of Hexaaquadihydroxobis(1,1,1-trifluoro-2,4,6-heptanetrionato)trinickel(II), a Linear Trinuclear

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 Properties of Iron(III) Molybdate, by Susceptibility, Mössbauer, and Neutron Diffraction

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 *Solid State Phys.*, **15**, L919 (1982).

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 Single Crystal X-ray Structural Study of *trans*-Bis(4-acetylpyridine)diaquobis(isothiocyanato)-

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 Microscopy: Some Pitfalls and Solutions in the Analysis of a Complex Mixture,” *Inorg. Chem.*,

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 and (PPN)[Fe2Co(CO)9CCO],” *J. Am. Chem. Soc.*, **107**, 5297 (1985).

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 Organoiron-Copper Clusters,” *Hyperfine Inter.*, **28**, 793 (1986).

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 and Properties of HFe3(CO)9BH3R and the Conjugate Bases [HFe3(CO)9BH2R]¯ (R = H and

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