CURRICULUM VITAE

Ernest Sibert February, 1994

Education

Ph.D. in mathematics and computer science, Rice University, 1967. Thesis title: "A Machine-oriented Logic Incorporating the Equality Relation"

B.A. (*cum laude*) in mathematics, Rice University, 1963

Employment:

Professor, School of Computer and Information Science, Syracuse University, 1977 to date

Associate Director for Core Research, Northeast Parallel Architectures Center, Syracuse University, 1987-1990

Interim Dean, School of Computer and Information Science, Syracuse University, 1984-1987

Associate Professor of Systems and Information Science, Syracuse University, 1970-1976

Assistant Professor of Computer Science, Rice University, 1967-1970

Consultant on computers and digital equipment, Schlumberger Well Services, Houston, Texas, 1968-1974, 1989-1991

Consultant on computer technology to Schlumberger-Doll Research, Ridgefield, Connecticut, 1976-1981

Academic Specialization:

Logic programming: languages, implementation, and applications; computational logic; parallel algorithms and programming techniques

Member

American Association for the Advancement of Science

Association for Computing Machinery

IEEE Computer Society

New York Academy of Science

Society of the Sigma Xi

Various ACM special interest groups

Selected Publications and Technical Reports:

A Sublanguage Approach to Natural Language Processing for an Expert System. *Information Processing and Management*, volume 29, no. 5, 1993, (pp. 633-645).

Finite Field Arithmetic Using the Connection Machine. In *Computer Algebra and Prallelism*, R.E. Zippel, ed., Springer Verlag (Lecture Notes in Computer Science), Berlin, 1992. (with H.F. Mattson and P. Jackson)

Qualitative Analyse: Ein computerunterstützter zyklisher Proszess. In *Qualitative Analyse Computereinsatz in der Sozialforshung*, G.L. Huber, Eberhard-Karls-Universität, Tübingen, ed., R. Oldenbourg Verlag, München, 1992. (with A. Shelly, tr. G. Huber)

Computer Simulation in Teacher Education: Enhancing Teacher Decision Making. In *Teaching Knowledge and Intelligent Tutoring*, P. Goodyear, University of Lancaster (U.K.) ed., Ablex Publishing Corporation, Norwood, NJ, 1991. (with A. Shelly)

Processing Natural Language for an Expert System using a Sublanguage Approach. Proceedings of the 1991 Conference on Recherche d'Information assistée par Ordinateur, Barcelona, Spain, April 1991. (with E. Liddy, C. Jörgenson, and E.S. Yu)

Using Logic Programming to Facilitate Qualitative Data Analysis. *Qualitative Sociology*, volume 9, no. 2, 1986. (with A. Shelly)

The QUALOG User's Manual (DEC-10 Version). C.I.S. Technical Report CIS-85-2, Syracuse University, July, 1985. (with A. Shelly) Also versions for VM/CMS and VAX/VMS systems.

LOGLISP: Motivation, Design and Implementation. In *Logic Programming*, K.L. Clark and S.-A. Tärnlund, eds. Academic Press, NY, 1982 (pp.299-313). (with J.A. Robinson)

LOGLISP--an Alternative to PROLOG. In *Machine Intelligence 10*, eds. J. Hayes, Y-H. Pao & D. Michie, Ellis Horwood, Chichester and Halstead Press, New York, 1982 (pp. 399-419). (with J.A. Robinson)

Some Binary Derivation Systems. *Journal of the Association for Computing Machinery*, volume 21, no. 2, 1974, (pp. 175-190). (with D. Michie)

Superflourescence Limitations on the Inversion Process in Large-Aperture Laser Amplifiers. *Journal of Applied Physics*, volume 40, no. 11, 1969, (pp. 4434-4436). (with F. Tittel)

A Machine-oriented Logic Incorporating the Equality Relation. *Machine Intelligence 4*, D. Michie and B. Meltzer, eds., University of Edinburgh Press, 1969, (pp. 103-133).

Dipole Moment of Nitrogen Dioxide. *Journal of Physical Chemistry*, volume 67, 1963, (pp. 2833-2835). (with Jimmie A. Hodgson and R. F. Curl, Jr.)

Patent:

U.S. Patent No. 4,398,272, "Computerized Truck Instrumentation System", August, 1983. Assigned to Schlumberger Technology Corporation.