

## **Donald MacDavid Tolle (Dave Tolle)**

### **Publications**

“A Graphics Facility Useful for Performance Monitoring on an nCUBE,” *Proc. of the Third Conference on Hypercube Concurrent Computers and Applications*, p. 207, Pasadena, CA, (January, 1988).

“A Collection of nCUBE UNIX Utilities,” *Proc. of the Third Conference on Hypercube Concurrent Computers and Applications*, p. 280, Pasadena, CA, (January, 1988).

“On the Complexity of Vector Computations in Binary Tree Machines,” (with William E. Siddall), *Information Processing Letters*, Vol. 13, No. 3, pp. 120-124 (December 13, 1981).

“Implanting FFP Trees in Binary Trees: An Architectural Proposal,” *Proc. ACM Conf. on Functional Programming Languages and Computer Architecture*, Portsmouth, NH, (October, 1981).

“Coordination of Computation in a Binary Tree of Processors: An Architectural Proposal” (Ph.D. Dissertation, UNC-Chapel Hill, 1981)

Additionally, approximately 15 internal Shell publications on various computer science topics, 1981-1998.

### **Patents**

Seismic Migration on Multiprocessor Computer (with William D. Moorhead and Richard L. Gregg), March 30, 1993. Patent Number 5,198,979.

Syntactically Self-Structuring Cellular Computer, April 15, 1986. Patent Number 4,583,164.

### **Memberships and Honors**

Member of ACM, IEEE, MAA, Sigma Xi.

UNC Chapel Hill: Morehead Foundation Fellowship (1975-79).

USF: Phi Kappa Phi Honor Society, Pi Mu Epsilon (mathematics honor society),

Sigma Pi Sigma (physics honor society).