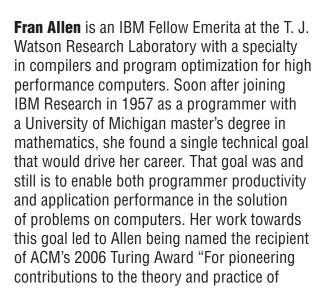
## LA CROSSE Distinguished Lecture Series in Computer Science

## Monday, March 3, 2008





optimizing compiler techniques that laid the foundation for modern optimizing compilers and automatic parallel execution."

She is a member of the American Philosophical Society and the National Academy of Engineers and is a Fellow of the American Academy of Arts and Sciences, ACM, IEEE and the Computer History Museum. She has served on numerous national technology boards including CISE at the National Science Foundation and CSTB for the National Research Council. Allen is also an active mentor, advocate for technical women in computing, environmentalist and explorer.

## Schedule of Events

10:30 a.m. Registration,

Cleary Alumni & Friends Center

11 a.m. Symposium

Parallel Computers Will Be Everywhere: How will we use them?

Multi-core computers are ushering in a new era of parallelism everywhere. As more cores (and parallelism) are added, the potential performance of the hardware will continue to increase. But how will users and applications take advantage of all the parallelism? Some people believe this question identifies one of the biggest challenges computer science has ever faced. I agree but I also believe that it offers a great opportunity. The talk will focus on the role programming languages and compilers must play to achieve both application performance and programmer productivity. The speaker's personal experiences with languages and compilers for high performance systems will provide the basis for her observations. The talk is intended to encourage the exploration of new approaches towards making parallel systems more efficient and much easier to use.

Noon

Reception for Frances Allen Cleary Alumni & Friends Center 4:30 p.m. Registration

Cleary Alumni & Friends Center

5 p.m. **Keynote** 

Languages, Compilers and High Performance Systems: A Personal Perspective

The talk will describe a related sequence of projects including some early, very bold projects that profoundly influenced the field even as some of them failed. Since the speaker was directly involved with several of these projects and very familiar with all of them, the talk will include a personal perspective of what worked and what didn't, the historical threads of some ideas, lessons learned and artifacts existing in systems today that we may want to reexamine. The talk will conclude by briefly describing the current challenge of universal parallel computing and suggesting some approaches for working on it.

6 p.m. Informal Questions/Social

**Cleary Alumni & Friends Center** 

For further information about the lecture contact:

Steve Senger, Ph.D., Computer Science Department University of Wisconsin-La Crosse 1725 State St., La Crosse, WI 54601 • 608.785.8387 E-mail: senger@cs.uwlax.edu

Co-sponsored by the

University of Wisconsin-La Crosse Foundation Inc.,
Department of Computer Science • College of Science and Health