

# UCI Department of Computer Science

# DISTINGUISHED LECTURE SERIES



## WILLIAM GROPP

*Thomas M. Siebel Chair in Computer Science and  
Director of the National Center for Supercomputing Applications  
University of Illinois, Urbana-Champaign*

### “Challenges in Programming Extreme Scale Systems”

**Friday, October 19, 2018 • 11 a.m.**

**Donald Bren Hall, Room 6011**

*No cost to attend • Open to the public • Seating is on a first-come, first-served basis*

### ABSTRACT

After over two decades of relative architectural stability for distributed memory parallel computers, the end of Dennard scaling and the looming end of Moore’s “law” is forcing major changes in computing systems. Can the community continue to use programming systems such as MPI for extreme scale systems? Does the growing complexity of compute nodes require new programming approaches? This talk will discuss some of the issues, with emphasis on internode and intranode programming systems and the connections between them.

### BIO

William Gropp is Director and Chief Scientist of the National Center for Supercomputing Applications and holds the Thomas M. Siebel Chair in the Department of Computer Science at the University of Illinois in Urbana-Champaign. He received his Ph.D. in Computer Science from Stanford University in 1982. He was on the faculty of the Computer Science Department of Yale University from 1982-1990 and from 1990-2007, he was a member of the Mathematics and Computer Science Division at Argonne National Laboratory. His research interests are in parallel computing, software for scientific computing, and numerical methods for partial differential equations. He is a Fellow of ACM, IEEE, and SIAM and a member of the National Academy of Engineering.

For more information, visit [wgropp.cs.illinois.edu](http://wgropp.cs.illinois.edu)