

**Professional Accomplishments and University Service of  
David J. DeWitt  
John P. Morgridge Professor of Computer Sciences**

Professor DeWitt has been a member of the faculty of the Computer Sciences Department of the University of Wisconsin - Madison since 1976, serving as Department Chair from 1999-2004.

For the past thirty years Professor DeWitt has been a leader in Database Management Systems Research, with a special emphasis on applying the power of parallel processing to large-scale data management problems. Beginning with the DIRECT project from 1977 – 1984, and continuing with the GAMMA project from 1984 to 1992, he invented, implemented, and evaluated fundamental techniques for parallel data processing including data-flow query processing, partitioned parallelism, and the exploitation of “shared-nothing” architectures. These techniques are used to this day in the commercial parallel data processing industry by products from vendors including IBM, Oracle, Microsoft, and Teradata. More recently, in the context of the SHORE, Paradise, Niagara, and Clustera projects, he has made fundamental contributions to persistent object management, parallel object-relational database systems, XML data management, and data-intensive compute cluster management.

Professor DeWitt holds the John P. Morgridge chair in computer science, is a member of the National Academy of Engineering, a Fellow of the American Academy of Arts and Sciences, and a Fellow of the Association for Computing Machinery (ACM.) He has a career filled with dedicated professional service, including serving as Chair of the ACM Special Interest Group on the Management of Data (SIGMOD), as a member of the National Science Foundation CISE Advisor Board, as a member of the National Research Council Task Force on the Availability and Usefulness of NASA’s Space Mission Data, as a member of the National Academy of Science Digital Government Study Panel, and as a member of the NASA CESDIS Science Council Advisory Board.

He has distinguished himself as an educator, with 33 Ph.D. students and over 150 scientific publications. He also developed an undergraduate curriculum for database management systems courses that has served as a model for such courses at dozens of leading universities.

In conclusion, Professor DeWitt has enjoyed a long and productive career at Wisconsin. We wish to acknowledge his contributions by conferring emeritus status upon him at his retirement.