

## Wolfgang Gentzsch

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Wolfgang Gentzsch is currently Dissemination Advisor for the DEISA Distributed European Initiative for Supercomputing Applications, a member of the Board of Directors of the OGF Open Grid Forum standards organization, and a consultant to HPC, Grid, and Cloud stakeholders. He is also leading the e-School Project which aims at building and operating a professional interactive computer simulation Web2.0 laboratory for science and engineering education. Before, he directed the German Government funded \$120 Mio National D-Grid Initiative for developing a sustainable national Grid infrastructure for research and industry in Germany; he was an adjunct professor of computer science at Duke University in Durham and at NC State in Raleigh, and visiting scientist at the RENCI Renaissance Computing Institute at UNC Chapel Hill, North Carolina; Vice Chair of the e-Infrastructure Reflection Group e-IRG; Area Director of Major Grid Projects of the Open Grid Forum Steering Group; and a member of the US President's Council of Advisors for Science and Technology, PCAST.



In 2004 and 2005, he was the managing director of MCNC Grid Computing & Networking Services. He directed the organization's grid strategy and technology development, including the development of one of the nation's first statewide grids. Prior to joining MCNC, Wolfgang became senior director of grid computing for Sun Microsystems. He was responsible for Sun's grid technology and business development and helped craft Sun's grid market strategy. Gentzsch joined Sun in 2000 when it acquired Gridware, a distributed computing software company that he co-founded in 1999. Gridware's technology is the foundation for the Sun Grid Engine distributed resource management software. Sun Grid Engine was a finalist at LinuxWorld 2002, earned the Excellence in Cluster Technology Award at ClusterWorld 2003, and was honored with the Frost & Sullivan Excellence in Technology Award in 2004. As an evangelist for grid computing, Gentzsch helped Sun Microsystems embrace the vision of grid computing and bringing it to the market successfully. He received the Sun Chairman Award for Innovation in 2002, from Sun CEO and President Scott McNealy, for his contribution to the open source Grid Engine software technology, which distributes and manages workloads for distributed computing resources such as clusters, grids, and clouds.

Before joining Sun, Wolfgang was the Founder, CEO and CTO of software companies Genias and Gridware (developing the Sun Grid Engine), and a professor of mathematics and computer science at the University of Applied Sciences in Regensburg, Germany. Wolfgang Gentzsch studied mathematics and physics at the Technical University in Aachen, and received his PhD on nonlinear systems of partial differential equations from University Darmstadt, Germany.

Wolfgang's major research interests have been in the fields of high performance computing, grand-challenge scientific and engineering applications, numerical algorithms to solve nonlinear systems of partial differential equations, advanced computer architectures, e-infrastructures, and e-learning. He has published approximately 200 articles, papers and reports and he is author and co-author of several books. He also holds several international patents in distributed computing.

Wolfgang supports IARIA, the International Academy, Research, and Industry Association, a non-for-profit association that promotes the advanced achievements in different scientific areas, grants scientific Fellow Grade, issues on-line journals, and promotes the young researches. Recently, Wolfgang presented keynotes at several IARIA conferences on advanced e-infrastructures, next-generation e-learning environments, and grand-challenge scientific and engineering applications.