



Meet the Quantum Team

Benny G. Johnson, *Ph.D., President and CEO, Quantum, Simulations, Inc.*, holds Bachelor of Science degrees in Chemistry and Mathematics from the University of Kentucky, and received his Ph.D. in Theoretical Chemistry from Carnegie Mellon University in 1993, working with Professor John A. Pople, a 1998 Nobel Laureate in Chemistry. Dr. Johnson is the author of over forty scholarly publications in academic journals and books, and has delivered invited lectures at many national and international conferences, including the No Child Left Behind Leadership Summit in 2004. Over the past nine years, Dr. Johnson has developed the results of his scientific research and successfully released a full-featured quantum chemistry software product to a worldwide commercial market of industrial, academic and government researchers. As principal investigator on various research and development projects, Dr. Johnson has received over \$7.5 million in SBIR and other awards through various agencies including the U.S. Department of Education, the National Science Foundation, the Department of Energy, the Air Force Office of Scientific Research, the National Institutes of Health and the Ben Franklin Technology Center of Western Pennsylvania. In addition to this work, Dr. Johnson has contributed substantially to several significant commercial and government chemistry research software projects, including Pacific Northwest National Laboratory's NWChem project, which is part of the Department of Energy's effort to solve environmental problems related to the Hanford nuclear site in the state of Washington.

Rebecca Renshaw, *Co-Founder, Executive Vice President*, has an outstanding success rate of commercializing high technology companies. At Carnegie Group, Inc. (CGI), an artificial intelligence software company, Ms. Renshaw was integral in the development of the communications, educational programs, marketing and sales efforts that ultimately lead to the company's initial public offering (IPO). Prior to CGI, Ms. Renshaw was a member of the communications team that established an industrial affiliates and educational program for the Robotics Institute at Carnegie Mellon University, which generated international acclaim and provided several million dollars in funding for research and development. From 1994 to 1998, Ms. Renshaw was Business Operations Manager at Q-Chem, Inc., a quantum chemistry software development company, where she developed the business infrastructure, marketing strategies, distributorships and private commercialization funding that successfully launched the technology into the marketplace.

Dale A. Holder, *Co-Founder and Chief Academic Officer*, holds Bachelor of Science degrees in Mathematics and Chemistry from Eastern Kentucky University, a Master of Arts degree in Science Education from Western Kentucky University and a Rank 1 certification as an Educational Specialist from the University of Georgia. He has participated in four NSF Summer Institutes for Secondary School Teachers of Science and Mathematics, and was the recipient of an NSF Academic Year Institute Fellowship at the University of Georgia in 1970 through 1971. With more than 35 years of experience teaching high school chemistry and mathematics, Mr. Holder has received several awards for his creative and innovative approaches to teaching including Kentucky's 2004 Wal-Mart Teacher of the Year, Most Outstanding Secondary Science Teaching in Kentucky for 1999 and 13 additional Outstanding Teacher Awards.