

John M. Jurns



John Jurns is a senior engineer with a B.S. from SUNY at Buffalo and a M.S. from Cleveland State University. His technical background focuses primarily on cryogenic system and component design, development, research, and testing. He has extensive experience in both private industry and government research facilities. He began his career at what is now Praxair, designing bulk cryogenic storage systems. After 10 years in industry performing design and integration work with cryogenic and high-pressure gas systems, he moved on to research and technology, working for 24 years at the NASA Glenn Research Center. At NASA, he was responsible for cryogenic system research program development, design, engineering investigations, build-up and operation of cryogenic test facilities. Following NASA he worked 6 year at the European Spallation Source project in Sweden as the lead engineer responsible for the specification, procurement, and installation of a cryogenic helium refrigeration system. John currently works at the NIST Center for Neutron Research in Gaithersburg Maryland, on a team responsible for design and operation of the cryogenic system infrastructure supporting NIST's research reactor. His specific areas of expertise include familiarity with cryogenic hydrogen, methane, oxygen, nitrogen and helium; designing research and prototype hardware; testing cryogenic systems and components; heat transfer analysis; aerospace mission analysis; and developing cooling systems for large scale particle accelerator facilities.