

DR. JACK BROUWER

Associate Director
National Fuel Cell Research Center
University of California, Irvine

Dr. Brouwer is associate director of the National Fuel Cell Research Center and adjunct associate professor of mechanical engineering at the University of California, Irvine. Dr. Brouwer holds a doctoral degree in mechanical engineering and chemical engineering from the Massachusetts Institute of Technology. His expertise encompasses energy systems, fuel cells, combustion, turbulent reacting flows, computational fluid dynamics, detailed chemical kinetics, and the design and operation of advanced experimental facilities for emerging energy technologies.



Prior to joining the NFCRC, Prof. Brouwer was on the faculty at the University of Utah, a senior engineer at Reaction Engineering International, and a staff scientist at Sandia National Laboratories. At the NFCRC, Prof. Brouwer has overall responsibility for the management and operations of the center, which is breaking new ground in the design and conduct of both a university center and a national center. Prof. Brouwer is currently leading research and development efforts on hydrogen refueling, fuel cell vehicle dynamics, testing and evaluation of a hybrid fuel cell gas turbine systems, development and application of dynamic fuel cell and hybrid fuel cell systems simulations, reformation technologies for gaseous, liquid, and solid hydrocarbon fuels, and novel solid oxide fuel cell materials sets.