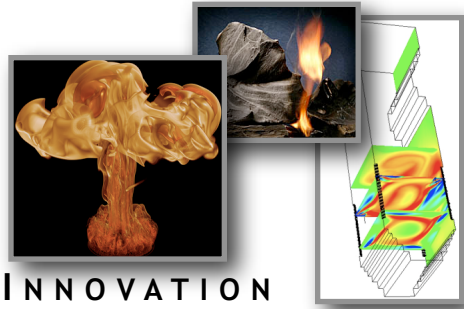


# COMBUSTION SIMULATION VERIFICATION, VALIDATION AND INNOVATION

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Philip J. Smith, professor & chair, Chemical Engineering, The University of Utah

## Biographical Sketch

Professor Philip J. Smith is a professor of Chemical Engineering at the University of Utah and is the current chair of the Department of Chemical Engineering. He is the director of the Utah Heavy Oil Center (UHOC) and is on the directorate of the Center for the Simulation of Accidental Fires and Explosions (CSAFE). CSAFE is one of five DOE funded Advanced Simulation and Computing (ASC) university alliance centers with the purpose of advancing simulation science pedagogy. Phil has been responsible for the fire simulation aspects of the center since its creation 9 years ago. In 1990 he was one of three founding partners of Reaction Engineering International, a consulting firm that uses combustion simulation software developed by Phil and his students for problem solving and design of coal and gas combustion boilers, furnaces and gasifiers.