

## **Innovative and Novel Computational Impact on Theory and Experiment (INCITE) Program**

Julia C. White

The INCITE program is dedicated to providing very large awards of computer time to researchers carrying out grand-challenge-scale simulations that require enormous computing power to provide scientific and technical discoveries of tremendous potential impact to the nation. INCITE annually allocates more than 60 percent of the high-performance computing resources of the U.S. Department of Energy's (DOE's) leadership computing facilities (LCFs). For 2010 this represents a combined 1.6 billion processor hours on the world's most powerful systems: Oak Ridge National What is a 200,000 CPUs Petaflop Computer Good For (a Theoretical Chemist's Perspective)?