

SUPERCOMPUTING CONFERENCE WELCOME

Greetings SC09 Participants:

At this year's conference, I hope you will be inspired by NASA's latest accomplishments enabled by its world-class supercomputing technologies. Whether engaged in sustainable exploration of the universe, observing and protecting our home planet, safely carrying out the remaining space shuttle missions, or continuing its support of America's aeronautics industry, our nation's space agency is thriving in its leadership role in aeronautics, science and technology.

As a NASA astronaut who flew on four shuttle missions, I witnessed first-hand the beauty of our planet and the environmental challenges that face it. So, I am pleased that at SC09, scientists and engineers representing five NASA centers will demonstrate the use of our supercomputing capabilities for numerous key agency missions addressing "green" issues.

When visiting our exhibit, you will learn how NASA is producing new, very high-resolution models of global atmospheric dynamics to better understand the influence of events such as hurricanes, flooding, and drought. You also will see amazing images and videos of hydrodynamic simulations of galaxy mergers that help explain how the structures in today's universe formed. Using NASA's high-end computing technology, researchers are also producing new simulations to improve the design of gas turbine engines that will lower the smog-producing nitrogen oxide emissions produced during combustion.

I hope you have an opportunity to learn about these and other innovative supercomputing applications that are helping NASA expand its commitment to technical excellence and engage the public—especially the next generation of scientists, engineers, and explorers—to participate in the future of our nation's exciting missions on Earth and in space.



Charles F. Bolden Jr.
NASA Administrator

