

# **Basic Analytical and Numerical Methods for Propulsion and Aerodynamic Analysis of Solid-Propellant Rockets**

## **March 22 – March 26, 2010**

*Course is limited to U.S. Government and Its Contractors*

*Director:*

**Dr. Gary Flandro**

*Lecturer:*

**Dr. Mark Salita**

### **Course Description**

The purpose of this course is to provide the rocket scientist/engineer with a sequence of analytical and numerical models from simple to complex to help solve the wide variety of problems that arise in the operation of solid-propellant rocket motors. Emphasis is placed on application rather than theory. The topics include both internal and external rocket environments, many of which also apply to liquid rockets (e.g. propellant combustion, nozzle flow, plume flow, external aerodynamics, and trajectory analysis). The attendee is assumed to have a basic knowledge of fluid mechanics and mathematical analysis. A CD containing Salita's book in both text format (500 pages) and lecture format (850 slides) will be provided.

Course Fee: \$1,575.00

AIAA Member Course Fee: \$1,417.50

For more information and an application form, view/download the printable [PDF brochure](#)