

Hybrid Rocket Propulsion

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Director:

Dr. Joe Majdalani

Lecturer:

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Course Description

The “Hybrid Rocket Propulsion” short course is quintessential for all professionals specializing in chemical propulsion. The mechanisms associated with hybrid combustion and propulsion are diverse and affect our abilities to successfully advance and sustain the development of hybrid technology. It is our penultimate goal to promote the science of hybrid rocketry which is safe enough to be used in academia and the private sector. A historical demonstration of hybrid rocket capability is the 2004 X-prize winner SpaceShipOne. This course reviews the fundamentals of hybrid rocket propulsion with special emphasis on application-based design and system integration, propellant selection, flow field and regression rate modeling, solid fuel pyrolysis, scaling effects, transient behavior, and combustion instability. The course will provide *Fundamentals of Hybrid Rocket Combustion and Propulsion* to the course attendees.

Course Fee: \$1,195.00

AIAA Member Course Fee: \$1,075.50

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