



CALL FOR PAPERS

ICHRTA 2020
Mar 05-06, 2020
Rome, Italy

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICHRTA 2020 : International Conference on Hybrid Rocket Technologies and Applications is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Hybrid Rocket Technologies and Applications. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Hybrid rockets
Design of hybrid rocket motors
Solid /liquid/hybrid rocket propellants
Hybrid rocket motor design
Hybrid rocket propulsion
Hybrid rocket engines
Classification, challenges, and advantages of hybrids
Similarity and scaling effects in hybrid rocket motors
Flow field modeling of classical and non-classical hybrid rockets
Mechanisms and measurement techniques

Combustion instability and transient behavior in hybrid rocket motors
Metals, other energetic additives, and special binders used in solid fuels for hybrid rocket applications
Fuel formulation/optimization
Hybrid injector and pre-combustion chamber design
Grain structural design and integration
Internal ballistic design
Instability modeling
Nozzle design
Oxidizer tank, valving and feed system development
Mission optimization