



# 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