

Third Joint Laureate Applied Research

26th Khwarizmi International Award (KIA)



- **Project Title:** Gel Propulsion System
- **Executive Organization:** Malek- ashtar University of Technology
- **Researcher:** A. Saberi Moghaddam
- **Collaborators:** M. Sheikhi-A. Bagher vand

● **Abstract:**

Liquid and solid propellants are sufficiently developed; however, they suffer from some disadvantages. In order to overcome these defects, many attempts has been carried out to find new generation of propellants. In this way, gel engines (propellants) possess advantages of liquid and solid propellants and show a better performance than liquid propellants while do not have their disadvantages. These systems behave like solids when they are at rest and like liquids in propulsion state. In this project, gel propellants were successfully produced and gel propulsion system designed and constructed, and the related performance experiments have successfully been carried out.

