



Welcome

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ACADEMIC-INDUSTRY
LIQUID ROCKET SYMPOSIUM **2023**



Welcome To the Tom Wathen Center

Tom Wathen Center Youth Programs

(In Addition to Rocketry)

- The Tom Wathen Center uses the fascination of flight to inspire the love of learning.
- We welcome all people — especially youth, veterans, the disadvantaged and the challenged.

Field Trips: Includes an introduction to the dynamics of flight, interactive activities and an airport tour.

Red Barn Aviation: Youth learn the fundamentals of mechanics working together to restore an aircraft.

Youth Opportunity: Provides at-risk youth with paid work experience in aircraft and vehicle restoration.

Air Academies: Multi-day hands-on study of aviation science and the principles of flight.

No Photography or Video Please

Material will be available after the event



Symposium Purpose

- Promote Bipropellant Rocketry as a Learning Tool
- Promote Safety
 - Inform Students and Advisors
 - Hazards
 - Appropriate Mitigations
 - Appropriate Methods to be Use
- Students Meet Representatives From the Aerospace Industry
- Students Network With Other Students
 - Working On Bipropellant Rockets

Symposium Sponsors



Symposium Schedule

- Start 8:00 am
 - Welcome
 - Pressure System Safety
 - Proof Testing and Water Burst
 - Design to Cost
 - Ground Support Electronics
 - COPV Pressurization and Gas Burst
- Lunch 12:00 pm -1:00 pm
 - Cryogenic Burst and Cryogenics
 - Cleaning
 - Water Flow Testing
 - Oxygen Safety
 - Pyrotechnic Igniters and Igniter Demo
 - Flabob as a Testing Resource
 - Closing Statement
- Dinner 5:00 pm

We Can't Do It All!

- Keep In Mind This Isn't Everything
 - But It is a Good Start
- This A New Symposium
 - We Have Lots Of Information to Present
 - We May Not Get To Everything on Our Agenda!!