



## **NARCON 2017**

**Annual Convention of the National Association of Rocketry**

**February 24-26, 2017**

**Herndon, VA near the Udvar-Hazy Center of the National Air & Space Museum**

**Hosted by the Northern Virginia Association of Rocketry**

**[www.narcon.org](http://www.narcon.org)**

- Learn about the latest techniques for designing, building, and flying everything from tiny scale model rockets to big high-power rockets full of instruments
  - Four parallel tracks of breakout sessions all day on Saturday with 28 different topics presented by the hobby's recognized experts
  - One entire track devoted to Team America Rocketry Challenge techniques; **student TARC team members admitted FREE**
- Share your developments in the technology of the hobby in a **Research and Development competition** for \$1000 in cash prizes (sponsored by Aurora Flight Sciences) on Friday evening.
- Share experiences with fellow rocketeers at a social hour and hear **Lee Piester describe the origins and achievements of Centuri Engineering Company** at a banquet on Saturday evening.
- Tour the amazing exhibits of historic spacecraft (including Space Shuttle Discovery) and aircraft at the **Smithsonian's Udvar Hazy Center museum** on Sunday.

**Registration fee only \$20 (free for TARC students)**

**Online registration opens on September 15**

**Accommodations at the newly-renovated Crowne Plaza Dulles Airport hotel for only \$99 per night (plus tax)**

# ROCKETRY RESEARCH & DEVELOPMENT COMPETITION

## SPONSORED BY AURORA FLIGHT SCIENCES



### NAR CONVENTION 2017



The NARCON 2017 Research and Development competition is open to any rocketeer who is performing research, or engineering new developments, in which NFPA-1122/1127 (NAR Safety Code) compliant hobby rocketry plays a primary part. The purpose of this competition is to stimulate new concepts, approaches, and ideas in advancing the state-of-the-art of hobby rocketry or in using hobby rocketry as a research tool, and to recognize the projects that do this best. Projects previously entered in an NAR-sanctioned R&D competition event or whose results have already been published in a periodical will not be accepted as an entry unless the contestant demonstrates that significant new work has been done.

Each entry must be accompanied by a written report providing at least the following information in order to be considered for a prize. This written report must be submitted in digital form (Adobe Acrobat preferred) no later than midnight on Thursday, February 16 so that it can be distributed to the judges for advance review.

- The objectives of the work
- The approach taken
- List of any related R & D reports previously entered in competition or published by the author with a summary of what new work has been done for the current submission
- References to previous work done on the subject by others based on a review of the 400 R&D reports catalogued and posted on the NAR website
- The equipment used
- The facilities used
- The data collected
- The results obtained
- The conclusions drawn
- Further work that would clarify or extend the results obtained

The contestant should be prepared, if called upon by the Judges, to make an oral presentation on his/her project in person between 8 PM and 10 PM on Friday, February 24 at the NARCON 2017 hotel. A computer projection system accepting Powerpoint or Adobe Acrobat files will be available for this purpose. The oral presentation shall not exceed fifteen minutes. The presentation should cover briefly the material of the written report. Judges and members of the audience may question the contestant concerning his/her project afterward for a time not to exceed ten minutes.

Aurora Flight Sciences has generously donated the money for the awards for this event. Cash prizes will be awarded by the Judges as follows based on their judgment concerning the quality of each project submitted. There are no age divisions in this competition.

First place	\$500
Second place	\$300
Third place	\$200