



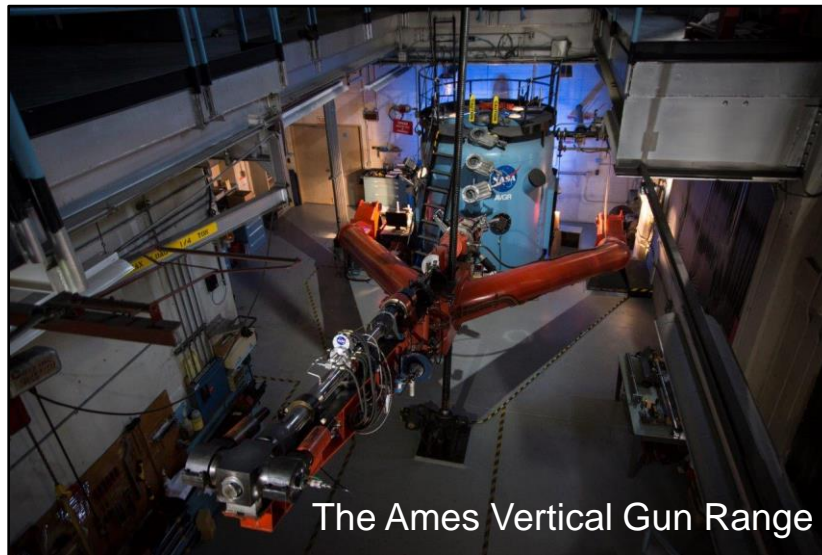
Ames Vertical Gun Range (AVGR)

PI: Charles Cornelison, NASA Ames Research Center

Website: <https://www.nasa.gov/centers/ames/thermophysics-facilities/ballistic-ranges>

Description of Facility

- A variable angle, hypervelocity impact facility that is used to study crater formation and debris dispersion on terrestrial bodies (with and without atmospheres), momentum transfer, and vehicle damage response to micro-meteoroid impact.
- High-speed video capability includes pairs of Vision Research Phantom V10, V12, V12 monochrome, V2512 and Shimadzu HPV1 cameras.
- 6 – 8 months of facility access per year.
- Research teams typically visit the AVGR for 1-week entries. The AVGR staff operates the facility and delivers the data to the research team.
- No restrictions on access.



How to use the facility

- To request access, contact the PI and Science PI
- Experiments as part of ROSES proposals are evaluated through the ROSES process. Non-ROSES requests are evaluated by the PI, Science PI, and the AVGR's operations Branch.
- Requests are prioritized "first come, first serve."
- PSD ROSES proposals can use the AVGR at no cost. The FY25 rate for non-ROSES experiments is \$15.4k/day.

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