DAVID A. ARNOLD
Physicist/Systems Analyst

Education

Boston University, A.B., Physics (1962)
Boston University, A.M., Physics (1969)

Military service

1962-1964   Physical Science Assistant,
             U.S. Army Cold Regions Research and Engineering Laboratory,
             Hanover, NH

Work experience

1964-1972   Senior Astrometric Computer, Project Leader, Supervisory Data Analyst,
             Smithsonian Astrophysical Observatory
1972-1978   Systems Analyst, Experimental Geophysics Department,
             Smithsonian Astrophysical Observatory
1978   Consultant, Martin Marietta, Denver, Colorado
1978-1980   Physicist (Applied), Geoastronomy Division,
             Smithsonian Astrophysical Observatory
1980   Consultant, Martin Marietta, Denver, Colorado
l980-1994   Computer Systems Analyst, Radio & Geoastronomy Division,
             Smithsonian Astrophysical Observatory
1994   Consultant, Martin Marietta, Denver, Colorado
1995-2002   Consultant, ITE Inc., Laurel, MD
1997   Consultant, Naval Research Laboratory, Washington, DC
2003-2018   Consultant, Smithsonian Astrophysical Observatory
2004   Consultant, Center for Automation & Robotics,
             University of Alabama, Huntsville, Alabama
2006   Consultant, LNF/INFN, Frascati, Italy, April 8 - April 28
             Consultant, LNF/INFN, Frascati, Italy, Sept 21 - Sept 29
2007   Consultant, LNF/INFN, Frascati, Italy, Sept 29 - Oct 19

General Fields of Investigation

- Computer modeling of optical and laser satellite tracking systems
- Analysis of optical and laser satellite tracking data
- Design and analysis of retroreflector arrays for satellite laser tracking
- Design and analysis of tethered satellite systems, including dynamics, electrodynamics, and thermal issues

Awards

NASA Group Achievement Award for the LAGEOS project.
JPL Certificate of Appreciation for the TOPEX/POSEIDON project
NASA Public Service Group Achievement Award for the TOPEX/POSEIDON,
    Precision Orbit Determination Team