

CURRICULUM VITAE

Larry R. Nittler

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Born: January 17, 1969, Denver, Colorado

Education:

1996: Ph.D. in Physics, Washington University, St. Louis, MO
Advisor: Robert M. Walker
1991: B.A. in Physics, Cornell University, Ithaca, NY

Employment:

2001–present: Staff Scientist, Carnegie Institution of Washington
1996–1997; 2001–present: Consultant, Lawrence Livermore National Laboratory
1999–2001: Astrophysicist, NASA Goddard Spaceflight Center
1996–1999: Postdoctoral Fellow, Carnegie Institution of Washington

Honors and Awards:

2013: NASA Group Achievement Award (for work as part of STARDUST Interstellar Preliminary Examination Team)
2010: Elected Fellow of the Meteoritical Society
2009: NASA Group Achievement Award (for work as part of MESSENGER Science Team)
2005: Antarctic Service Medal
2002: Asteroid 5992 (1981 DZ) named Nittler by International Astronomical Union
2002: NASA Group Achievement Award (for work on NEAR-Shoemaker mission)
2001: Alfred O. Nier Prize of the Meteoritical Society
1996–1999: Carnegie Postdoctoral Fellowship
1994–1996: NASA Graduate Student Research Program Fellowship
1995: Meteoritical Society Student Travel Award
1992–1994: McDonnell Graduate Fellowship
1992: Dean's Award for Excellence in Teaching, Washington University
1991: Distinction in All Subjects, Cornell University

Professional Societies:

Meteoritical Society, American Astronomical Society, American Geophysical Union

Space Mission Experience:

NEAR-Shoemaker (1998-2002): led data analysis effort for X-ray Spectrometer.
STARDUST (2006-present): isotopic and micro-Raman studies of returned cometary samples; member of Interstellar Preliminary Examination science advisory council.
GENESIS (2006-present): isotopic and elemental analysis of returned solar wind samples.

MESSENGER (2005-present): Deputy Principal Investigator; X-ray Spectrometer data analysis lead.

Hayabusa-2 (2016–present): Participating Scientist.

Service:

2017–present: Chair, NASA CAPTEM Genesis sample allocation committee

2014–present: Member, Planetary Science Subcommittee, NASA Advisory Council

2013–present: Councilor of the Meteoritical Society

2013, 2015: Review panel for Swiss Science Foundation

2011–2012 : Member, publications committee, Meteoritical Society

2007–2014: STARDUST mission Interstellar Preliminary Examination Science Council

2006, 2009: Review panels for German Science Foundation

2001–2016: CAPTEM Cosmic Dust Allocation Committee

1999–present: Various NASA Review Panels

Awards as Principal Investigator:

2016 PI, NASA Emerging Worlds Program “Presolar materials in the early Solar System,” \$450K / 3 yr

2015 PI, NASA Hayabusa 2 Participating Scientist Program “Exploration of a Volatile-Rich Asteroid from the Macro- to the Nano-Scale,” \$387K / 7 yr

2015 PI, NASA Planetary Major Equipment Program, “Acquisition of a high-brightness, high-spatial-resolution oxygen ion source for the Carnegie NanoSIMS ion microprobe,” \$334K / 1 yr

2013 PI, NASA Origins of Solar Systems Program, “The Role of Radiation in the Solar Nebula: Correlated chemistry-structure-isotope studies of laboratory and extraterrestrial organics,” \$423K / 3 yr

2009 PI, NASA Cosmochemistry Program, “Presolar Materials in Meteorites and Interplanetary Dust Particles,” \$648K / 5 yr

2009 PI, NASA Origins of Solar Systems Program, “Coordinated Microanalytical Study of the Origin and Evolution of Extraterrestrial Organic Matter,” \$168K / 3 yr

2006 PI, NASA Cosmochemistry Program, “Characterization of Presolar Materials in Meteorites and Interplanetary Dust Phase II,” \$102K / 3 yr

2006 PI, NASA Origins of Solar Systems Program, “Multi-Technique Micro analytical Investigations of the Origin and Evolution of Organic Matter in the Solar System,” \$264K / 3 yr

2006 PI, NASA MESSENGER Participating Scientist Program, “MESSENGER Investigations of the Geochemistry of Mercury,” \$255K / 6 yr

2006 PI, NASA Discovery Data Analysis Program, “SIMS Determination of Solar Wind Elemental and Isotopic Fluences from Samples Returned by the Genesis Discovery Mission,” \$168K / 3 yr

2005 PI, NASA Stardust Participating Scientist Program, “Isotopic and Spectroscopic Studies of Wild-2 Samples during the STARDUST Preliminary Examination Period,” \$93K / 2 yr

2003 PI, NASA Sample Return Laboratory Instrument and Data Analysis Program,
“Acquisition of an enhanced NanoSIMS 50L Ion Microprobe for Isotopic and Elemental
Analysis of Returned Samples,” \$1.1M / 3 yr

2003 PI, NASA Discovery Data Analysis Program, “A Search for the Minor Elements Mn,
Cr and Ni in NEAR-Shoemaker X-ray Spectra from 433 Eros,” \$108K / 2 yr

2001 PI, NASA Sample Return Laboratory Instrument and Data Analysis Program,
“Acquisition of a high resolution field emission scanning electron microscope for the
analysis of returned samples,” \$400K / 1 yr

2000 PI, NASA Cosmochemistry Program, “Characterization of Presolar Materials in
Interplanetary Dust Particles,” \$147K / 3 yr