NASA Goddard Space Flight Center

1959 – 2011
Celebrating 50+ Years of Exploration and Discovery

Dennis J. Andrucyk
Director, Applied Engineering & Technology
The Goddard Space Flight Center

- Established in 1959 as NASA’s first Space Flight Center
  - End-to-End Science and Technology Missions capabilities
  - Integrated Science, Engineering, and Project Management
  - Nearly 300 Missions – from the world’s first weather satellite (1960) to Hubble Space Telescope servicing and beyond
  - Communication and Navigation systems for NASA and National Program needs
  - ~ 3,200 Civil Servants and more than 4,000 on-site contractors

- Our Mission: We do Earth and Space Science Missions!
  - Conception, development, deployment, and operation of science and technology missions
  - Address fundamental questions in Earth and Space Science
  - Deliver data and information to the public in ways that they can use it

- Our resources enable the accomplishment of our Mission
  - Hire, develop, and nurture world class Scientists, Engineers, and Project Managers
  - Hands on experience at the Center of employee development
  - Facilities evolve to meet changing requirements
  - Identify and aggressively pursue technology advancements that enable science breakthroughs
GSFC Workforce

Total Civil Servants: 3,210
Total Contractors: 5,351
Total Workforce: 8,561
NASA GSFC Facilities

Goddard Space Flight Center, Maryland
Wallops Flight Facility, Virginia
IV&V Facility, West Virginia
Goddard Institute for Space Studies, New York
White Sands Ground Station, New Mexico
NASA GSFC Contribution to Diverse Mission Portfolio
NASA GSFC Launches: A Long History of Mission Success

1959 - 2010

- Successes = 252
- Launch Vehicle Failures = 32
- Spacecraft Failures = 11

Since 1974:
- Successes = 143
- Launch Vehicle Failures = 12
- Spacecraft Failures = 1

COBE Mission results in 2006 Nobel Prize
NASA GSFC Recent Missions

2009

Fermi 6/08
HST SM-4 5/09
NOAA N' 2/09
TacSat-3 5/09

2010

LRO 6/09
SDO (LWS) 2/10
GOES-14 6/09
GOES-P 3/10
Now GOES-15

2011

Glory 3/11 Launch Failure
JPL/Juno 8/11 Magnetometer
Aquarius Radiometer 6/11
On JPL Instrument flown on Argentinean Spacecraft

MLAS 7/09
NASA GSFC Near Term & Future Missions

- GPM
- LADEE
- JWST
- ICESAT-II
- NextGen TDRS
- MMS
- GEMS
- NPP
- MAVEN
- Suborbital
- JPL/MSL SAM
EDUCATION AND OUTREACH

• ‘Inside Goddard’ publication to inform external audiences about what Goddard does

• A new approach to Goddard's public website implementation and created a new Goddard home page

• Goddard Ambassador’s program to augment the current capacity of the Center to conduct EPO activities and events.