Explorers Program Overview

Greg Frazier

Deputy Program Manager – Explorers

2016 Explorers Astrophysics
SMEX and MO Phase A Kick-off

August 28, 2017

Explorers Program Overview

(1 of 2)

- NASA's oldest, continuous program
  - Over 100 successful missions since 1958
- Program Objective—Frequent flight opportunities for world-class scientific investigations
- Uncoupled program of missions with unique science capabilities supporting heliophysics and astrophysics science goals

Explorers Program Overview

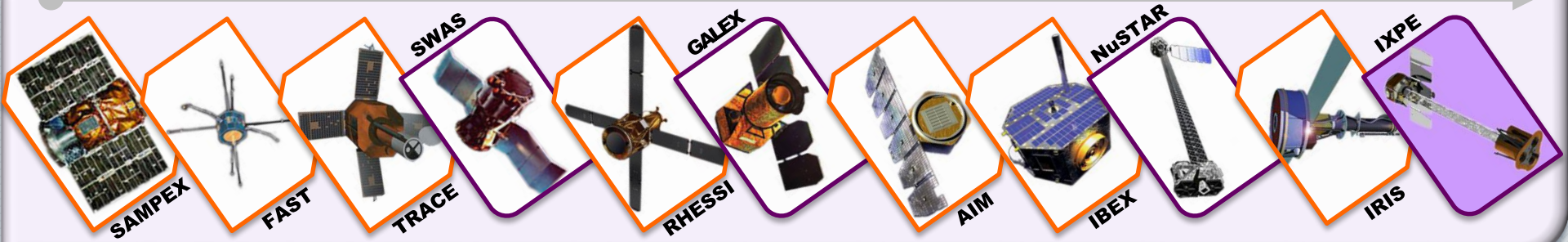
(2 of 2)

- Mission class characterized by size, schedule, and budget cost caps
  - MIDEX
  - SMEX
  - UNEX
  - Mission of Opportunity
- Missions solicited through Announcement of Opportunity
- Missions developed in Principal Investigator mode
- Program Management oversight provided by the Explorers Program Office at GSFC

Explorers Missions

MIDEX

SMEX



UNEX • MO • INTERNATIONALS

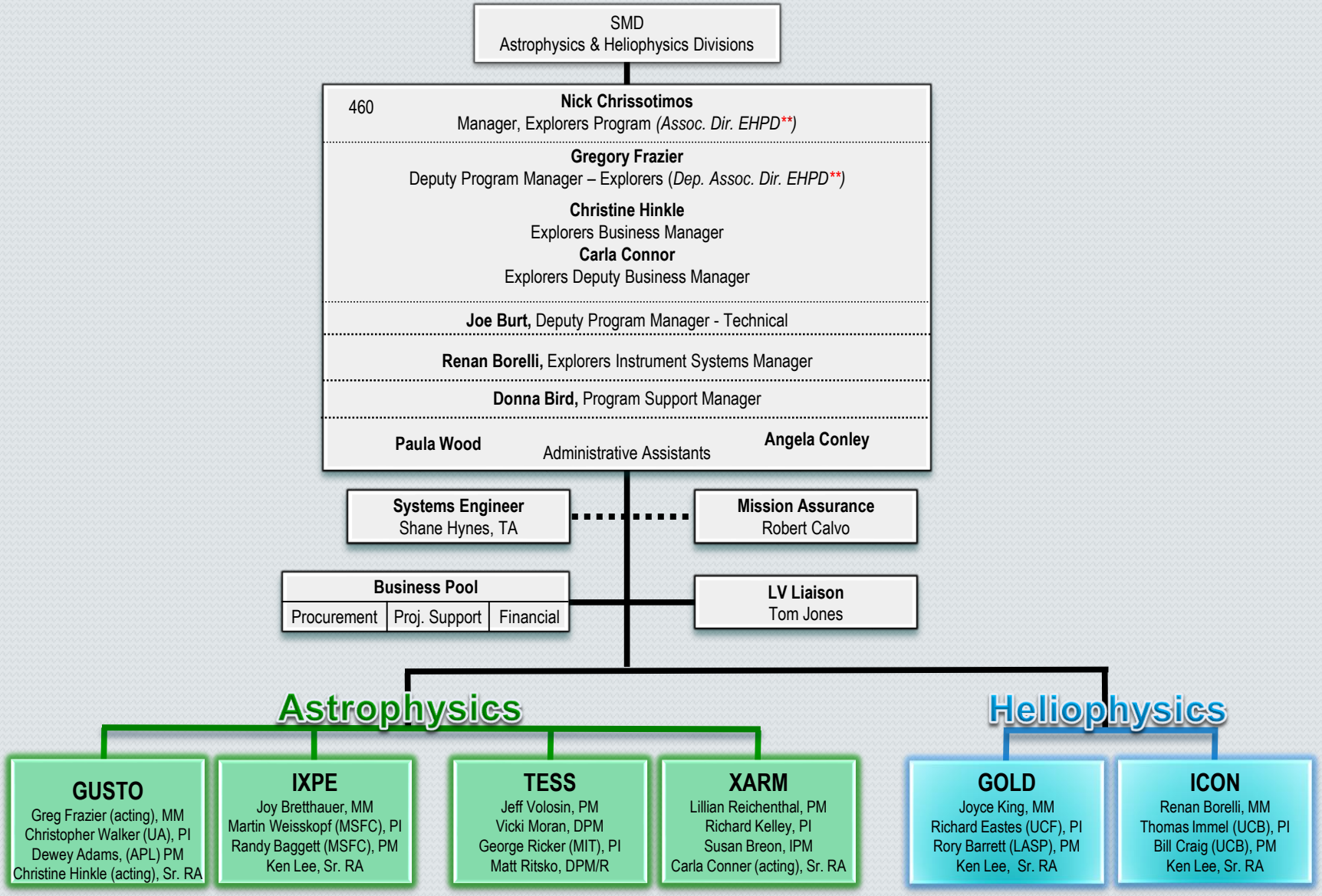
Astrophysics Missions

Current Astrophysics Missions

Heliophysics Missions

Current Heliophysics Missions

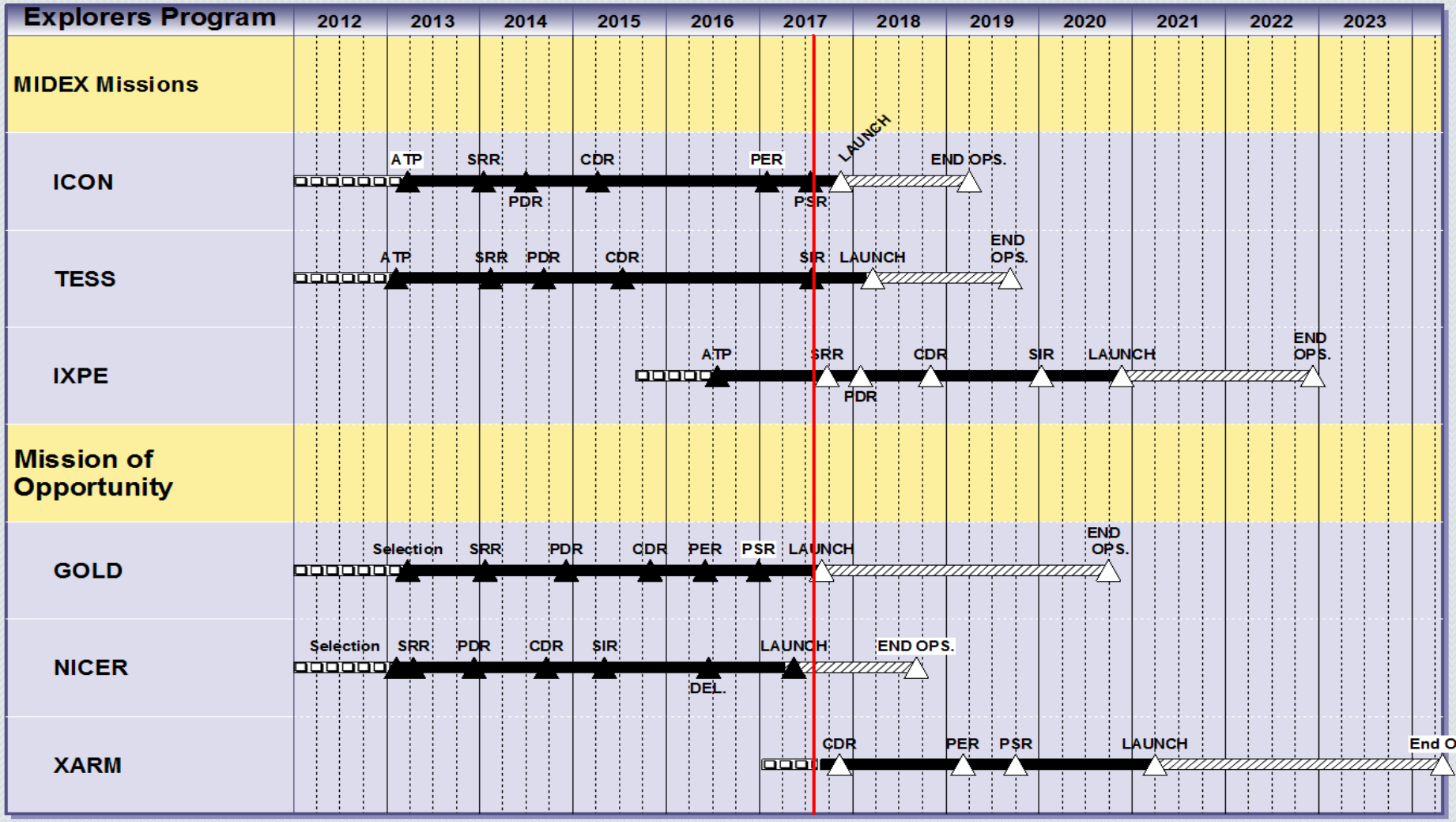
Explorers Program Organization Chart



***Explorers & Heliophysics Projects Division (EHPD)**

Explorers Program Master Schedule

7/31/17



Development

Prime Mission

Mission Development Responsibilities

- **NASA responsibility**
  - Program administration
  - Insight/oversight
  - Project review process
  - Technical authority
  - Launch vehicle procurement

- **PI responsibility**
  - Level-1 science requirements
  - Mission implementation
  - Technical, cost, and schedule performance
  - Peer reviews
  - Safety and mission assurance
    - MAIP - Mission Assurance Implementation Plan (response to AO Explorers Mission Assurance Requirements)