



Explorers Program Overview

Greg Frazier
Deputy Program Manager – Explorers

**Heliophysics 2018 Explorers
MO Phase A Kick-off**

October 15, 2019



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

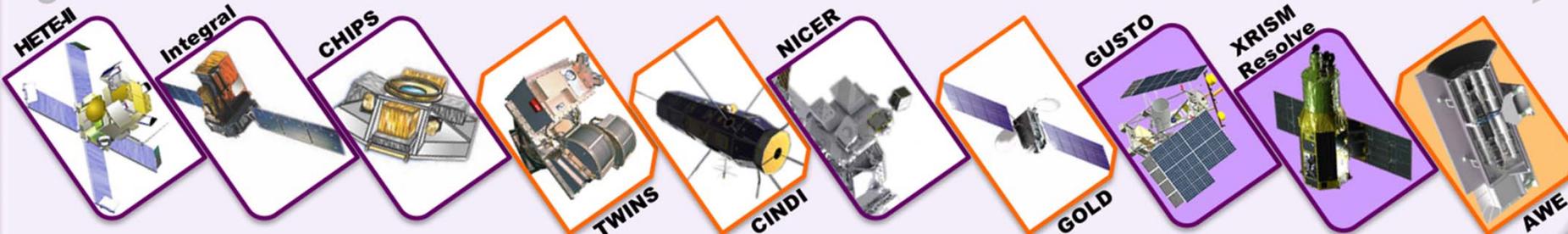
MIDEX



SMEX



UNEX • MO • INTERNATIONALS



 Astrophysics Missions

 Current Astrophysics Missions

 Heliophysics Missions

 Current Heliophysics Missions



Explorers Program Organization Chart



SMD
Astrophysics & Heliophysics Divisions

460
Nick Chrissotimos
Manager, Explorers Program (*Assoc. Dir. Explorers and Heliophysics Projects Division (EHPD)*)

Gregory Frazier
Deputy Program Manager – Explorers (*Dep. Assoc. Dir. EHPD*)

Christine Hinkle, Explorers Business Manager
Carla Connor, Explorers Deputy Business Manager
Sherrie Wood, Explorers Financial Manager

Joe Burt, Deputy Program Manager - Technical

Renan Borelli, Explorers Instrument Systems Manager

Donna Bird, Program Support Manager

Administrative Assistants: **Emily Roth** and **Angela Conley**

Systems Engineering
John Ruffa

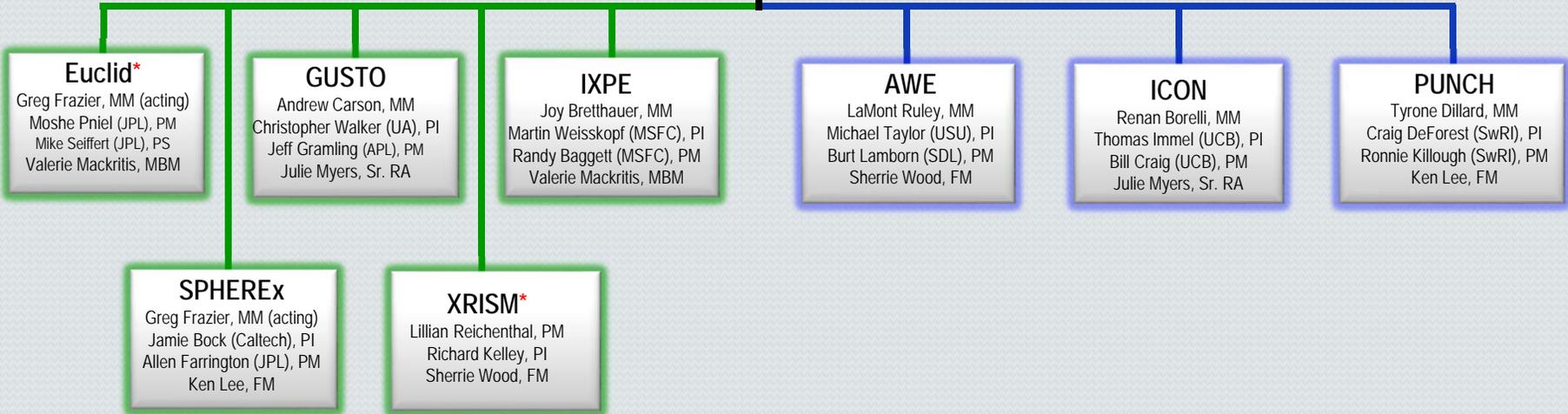
Mission Assurance
Lynette Marbley

Business Pool
Procurement | Proj. Support | Financial

LV Liaison
Tom Jones

Astrophysics

Heliophysics



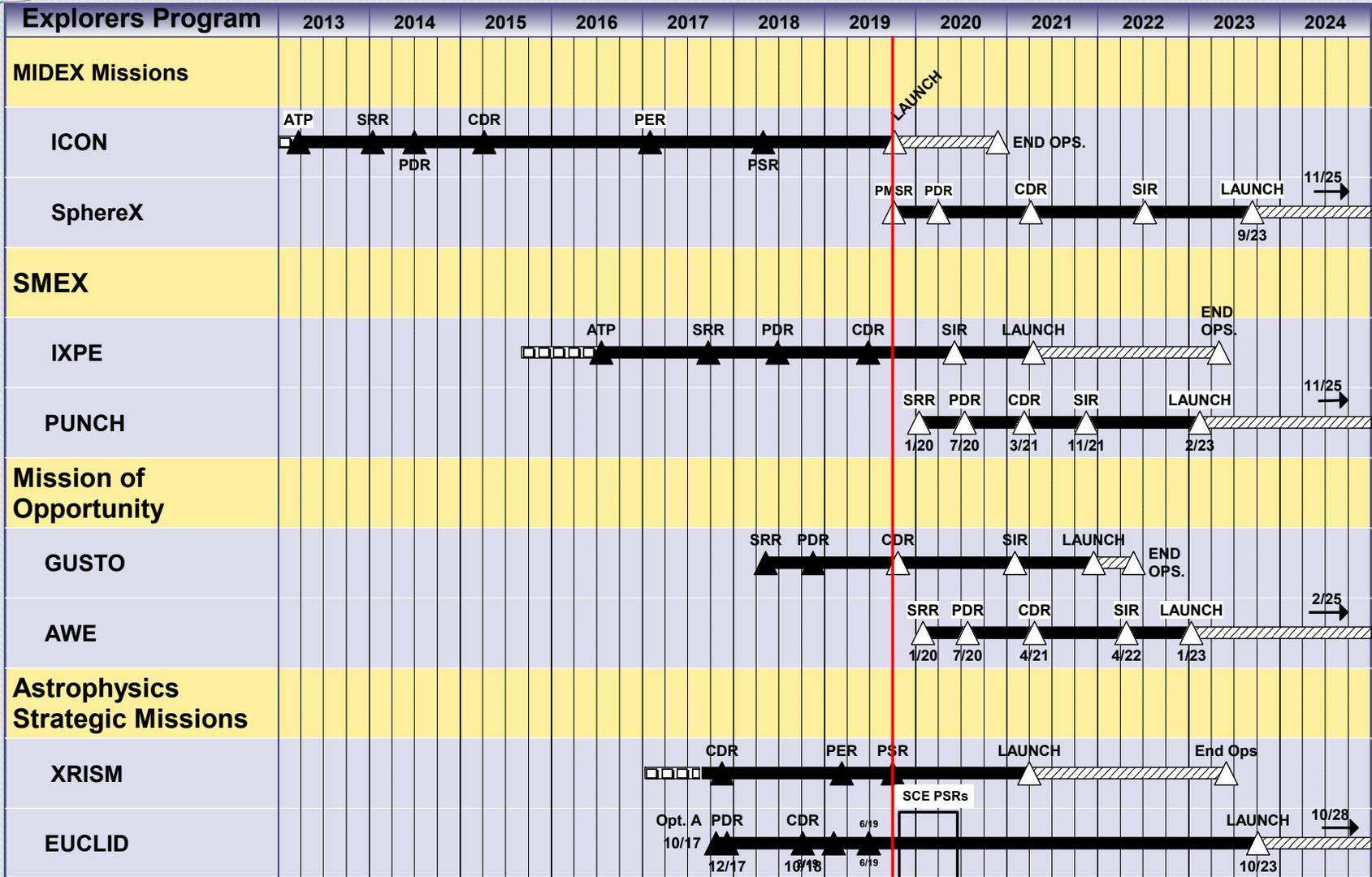
*Strategic Missions



Explorers Program Master Schedule



9/30/19



— Development

□□□□□□ Study/PreForm/AO

▨ Prime Mission

□□□□□□ Formulation

▨ Data Analysis



Mission Development Responsibilities



- ❖ **NASA responsibility**
 - Program administration
 - Insight/oversight
 - Project review process (SRB and KDP)
 - Technical authority
 - Launch vehicle procurement

- ❖ **PI responsibility**
 - Level-1 science requirements
 - Mission implementation
 - Technical, cost, and schedule performance
 - Safety and mission assurance
 - Internal review process (element and peer)