



Explorers Program Workshop

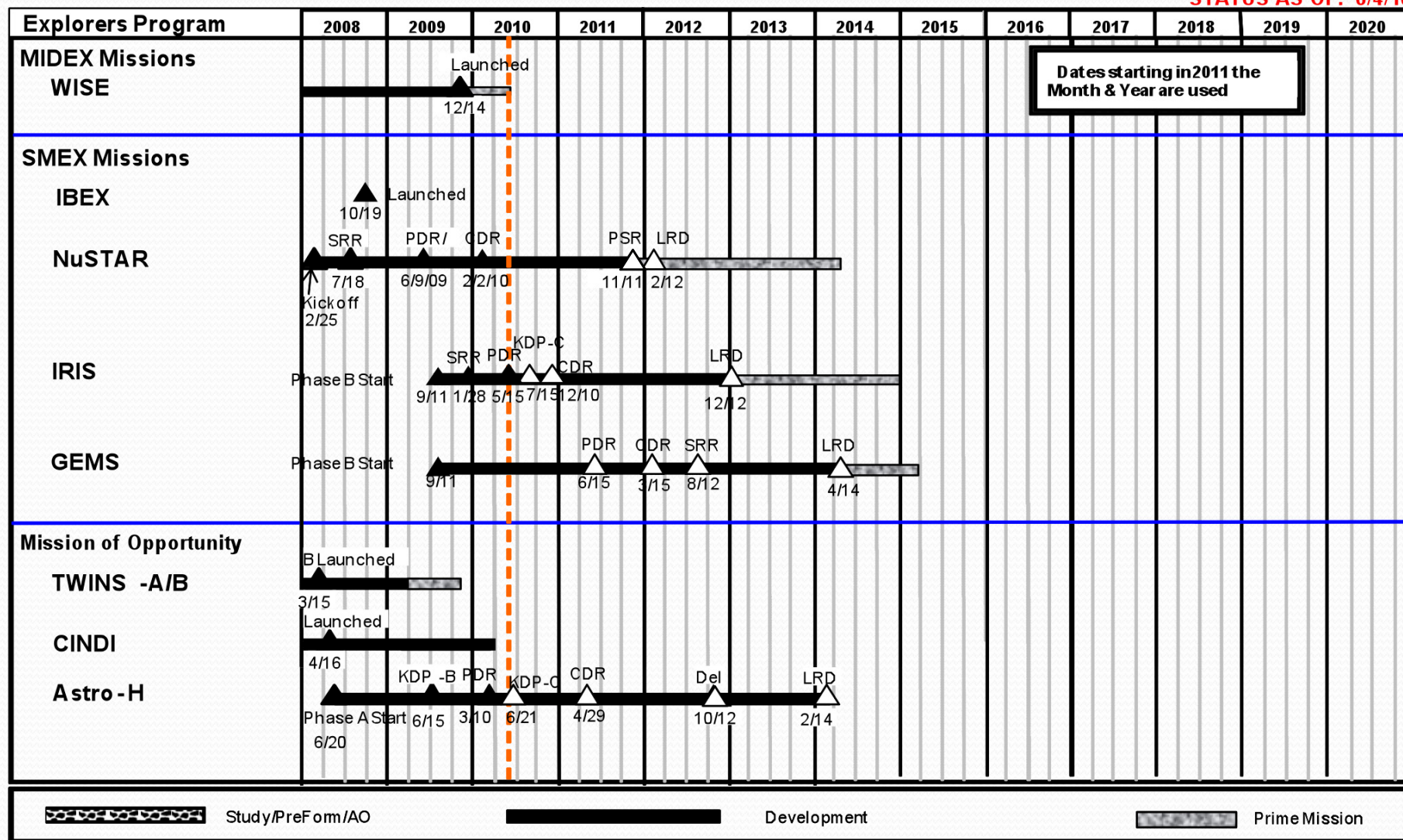


July 13, 2010



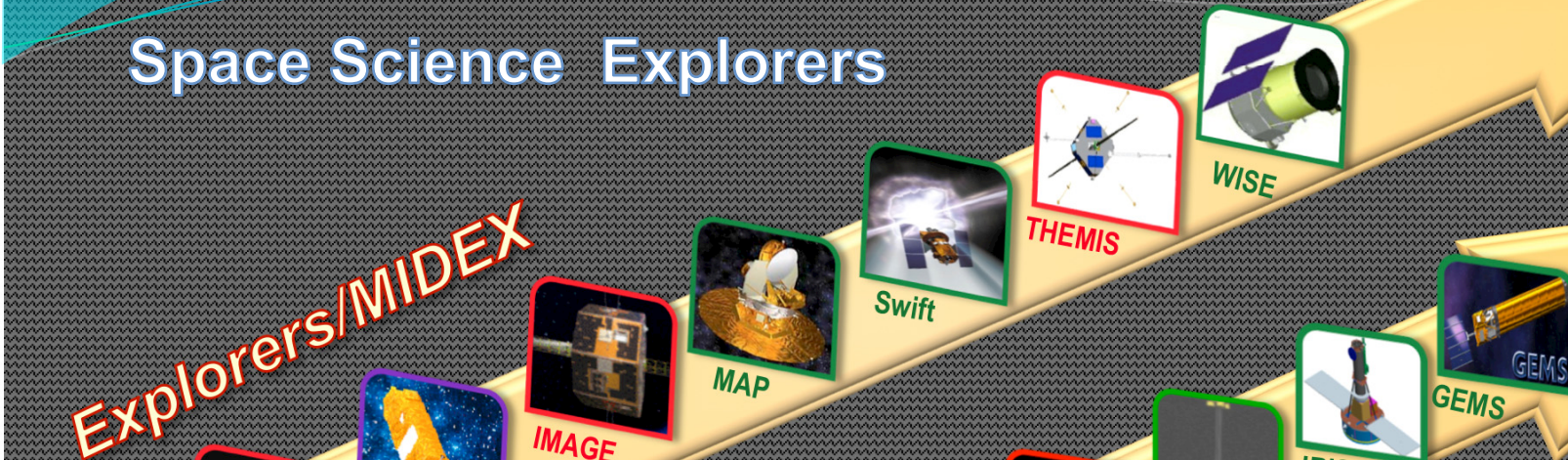
EXPLORERS PROGRAM MASTER SCHEDULE

STATUS AS OF: 6/4/10

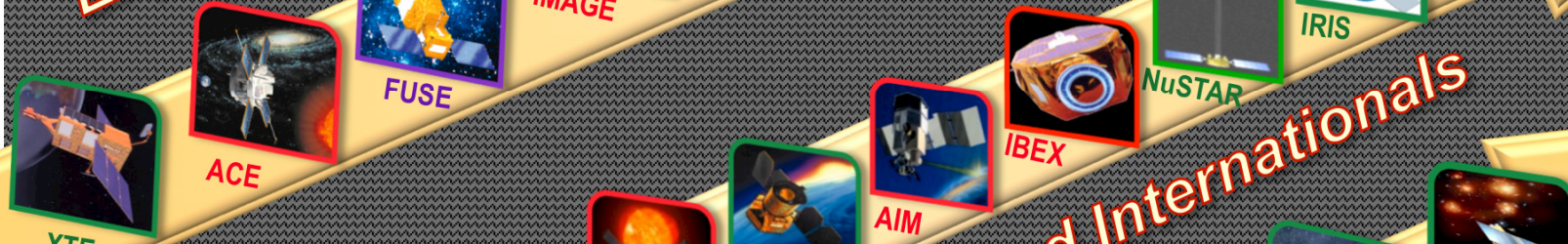


Space Science Explorers

Explorers/MIDEX



SMEX



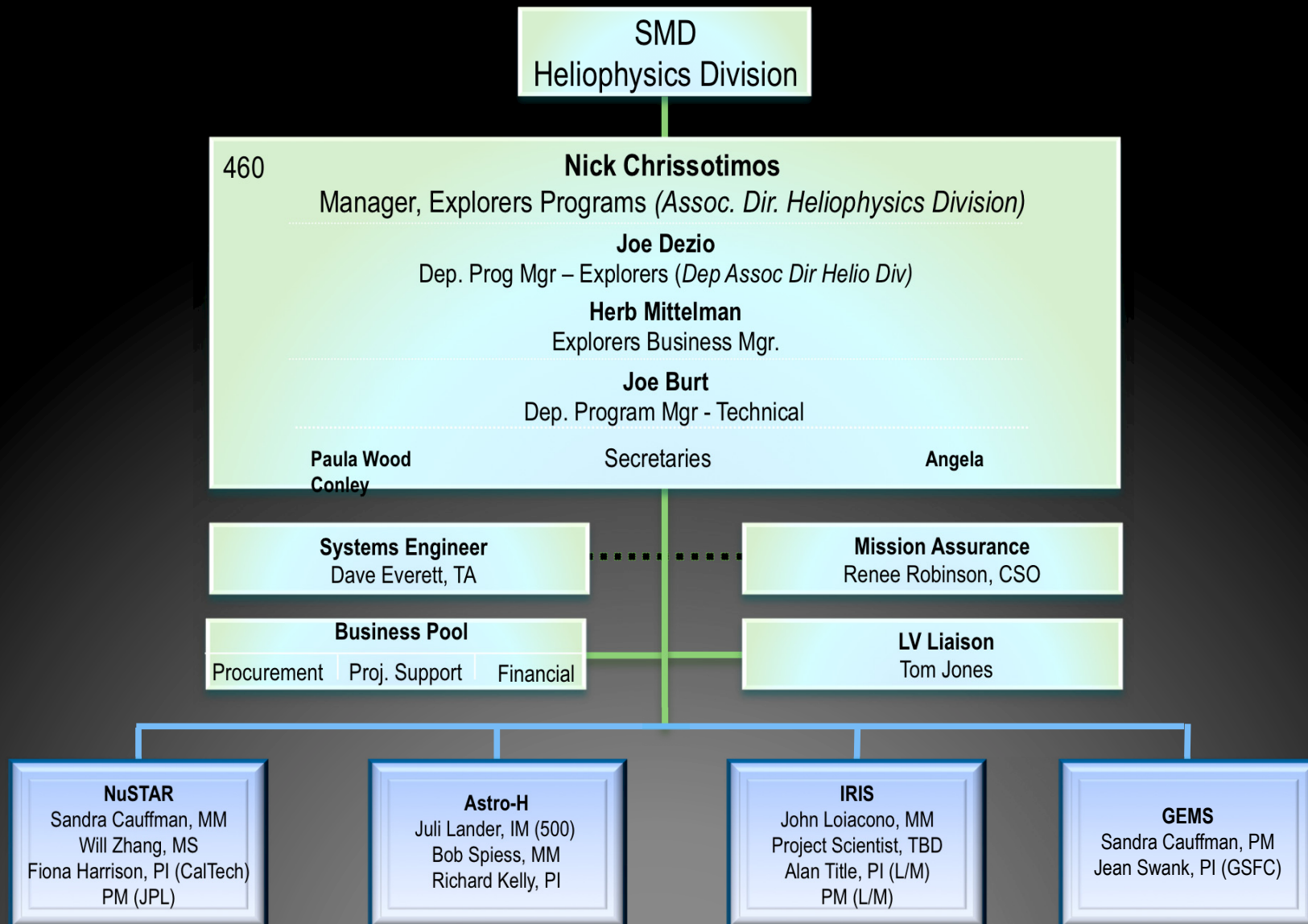
UNEX & Missions of Opportunity and Internationals



Supporting Heliophysics & Physics & Astronomy



Explorers Program Organization Chart



DEVELOPMENTAL ROLES & RESPONSIBILITIES SUMMARY (1)



◆ NASA responsibility

- Program administration
- Moderate insight / oversight
- “Traditional” review process
- “Project Plan,” approval (at Confirmation)
 - Reviewed for thoroughness, but PI responsible for content choices
- Technical Authority, Center approval for launch readiness

◆ PI responsibility

- Mission implementation (approach & execution)
- Performance/Cost/Schedule/Risk management
- Design guidelines
- Peer reviews
- Mission assurance
 - Industry standards, practice, and accountability
 - Industry practices-upon review and approval

DEVELOPMENTAL ROLES & RESPONSIBILITIES SUMMARY (2)



◆ **Work assumed by NASA “in Phase B” (we will need your input):**

- Probabilistic Risk Assessment (PRA)
- Failure Modes and Effects Analysis (FMEA)
- Fault Tree Analysis
- Launch vehicle interface support

DEVELOPMENTAL ROLES & RESPONSIBILITIES SUMMARY (3)



- ◆ **TDRS and NASA Ground Networks facilities are readily available for critical event coverage, i.e., vehicle separation, and normal operations**
- ◆ **Goddard flight dynamics support is also available for orbit design and tracking accuracy requirements verification**