



# NAC HEO Research Subcommittee Report

Briefing to the HEO Committee, November 14, 2016

David E. Longnecker, MD | Chair, Research Subcommittee



HUMAN EXPLORATION AND OPERATIONS MISSION DIRECTORATE  
NASA ADVISORY COMMITTEE – RESEARCH SUB COMMITTEE

NASA Headquarters  
MIC 7-A (7H41-A)  
Washington, DC

Tuesday, October 11, 2016  
9:00 AM – 4:30 PM Eastern

AGENDA

Time	Topic	Presenter(s)
9:00 – 9:10	Opening	Dr. Carpenter, Dr. Longnecker
9:10 – 10:30	NASA Status	Dr. Kundrot
10:30 – 11:00	Evolution of the HEO Research Committee	Dr. Carpenter
11:00 – 12:00	Federal Ethics Training	Ms. Spear
12:00 – 1:00	Lunch	
1:00 – 2:00	LEO Commercialization	Mr. McDonald
2:00 – 3:00	Priorities for Human Research in EM- Series Missions	Dr. Paloski
3:00 – 3:30	International Collaboration in Fundamental Physics	Dr. Lee
3:30 – 3:45	Public Comment	
3:45 – 4:30	Committee Deliberation and Recommendations	
4:30	Adjourn	

# Research Subcommittee Activity



## October 11 Meeting Summary

- Met incoming SLPSRAD Director, Craig Kundrot. His appointment was effective October 16
- Reviewed the Human Research Program's plans for research on the EM-series missions in the 2020's
- Reviewed NASA's plans for collaboration with DLR for atomic physics research on a DLR-built successor to the Cold Atom Laboratory ISS facility
- Received a briefing on the status of the Research Subcommittee's transition to the HEO Research Advisory Committee

# Why the Subcommittee is changing - 1



Science Definition Teams have been used for many years to create new missions in Space and Earth Science. A group of technical experts is assembled by NASA to define the research objectives for a new mission.

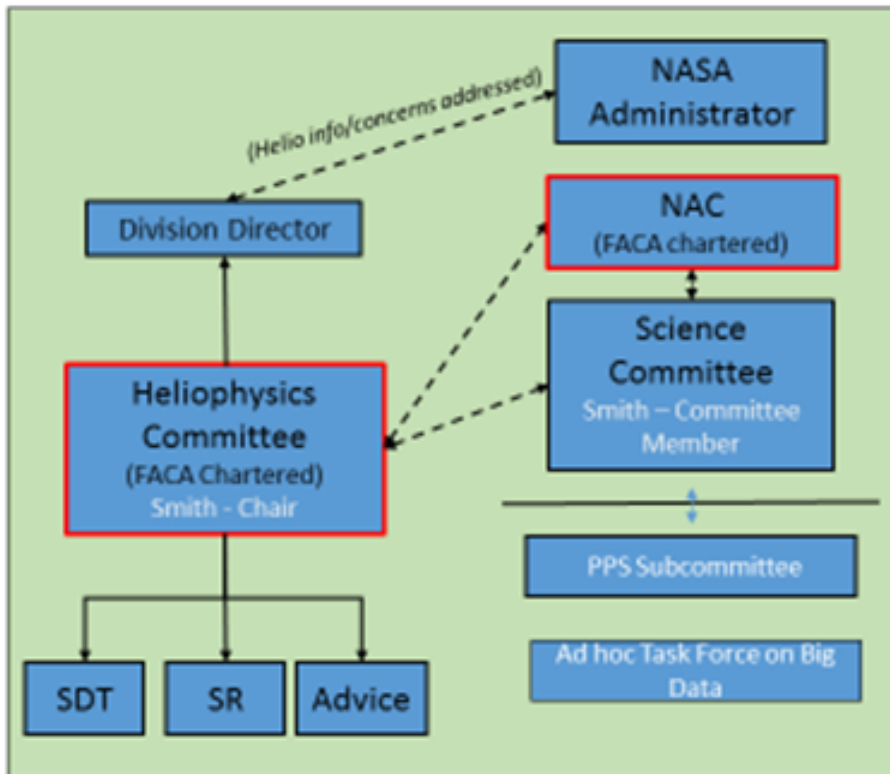
Science Definition Teams are a key piece of the Open Science concept for SLPS. However, in our preparations for our first Open Science projects in Space Biology, we were advised by OGC that our planned use of Science Definition Teams was not FACA-compliant, because the SDT's organization and operation fits the definition of an advisory committee.

The Office of the Chief Scientist volunteered to examine the situation and propose a remedy.

# Why the Subcommittee is changing - 2



## Proposed Solution for FACA Compliance



### Description

- Chartered Division Committee ("CDC") (Helio example) is separated from NAC
- Chair of CDC to be member of the non-chartered NAC Science Committee/HEO committee as appropriate

### Pros

- Expertise within the CDC to deliberate recommendations and provide advice directly to AA or DD
- Only one Helio committee, less chance of confusion
- Continuity maintained with CDC chair sitting on Science Committee
- Minimal additional workload as currently subcommittees conduct business like they are chartered
- Reduces NAC structural complexity

### Cons

- Would require ~5 additional FACA committees and charters
- GSA approval needed

# Why the Subcommittee is changing – 3



Charters for five new advisory committees have been approved by GSA, including the Human Exploration and Operations Research Advisory Committee charter.

When the advisory committees are officially established, the members must be appointed.

Some time in early 2017, the Human Exploration and Operations Research Advisory Committee should be in place.

The Committee will become the forum for public discussion, as required by FACA, of mission definition concepts developed by Science Definition Teams, which will function as working groups of the Committee.

The Committee chair will continue to serve as a member of the HEO Committee of the NASA Advisory Council.