

Origins Space Telescope: Community Participation

Sean Carey (IPAC/Caltech) for the Origins Space Telescope Science and Technology Definition Team

How the community is currently helping

- Creating the science case! Members of the Science and Technology Definition Team (STDT) are chairing Science Working Groups responsible for building the science case for the Origins Space Telescope (OST)
- Members of the community provided two page overviews of science cases that they wish to pursue with OST to set the priorities for the telescope design
- The current Science Case has been used to start the design process for a telescope that can support the main science drivers



Continuing to evolve the Science Case

- For the concept study to be successful, OST needs to have and support a broad, engaging science case that addresses fundamental research topics of the astronomical community and highlighted as relevant by the NASA roadmap
- Please join one of our five Science Working Groups (STDT leads listed) to participate in evolving the science case:

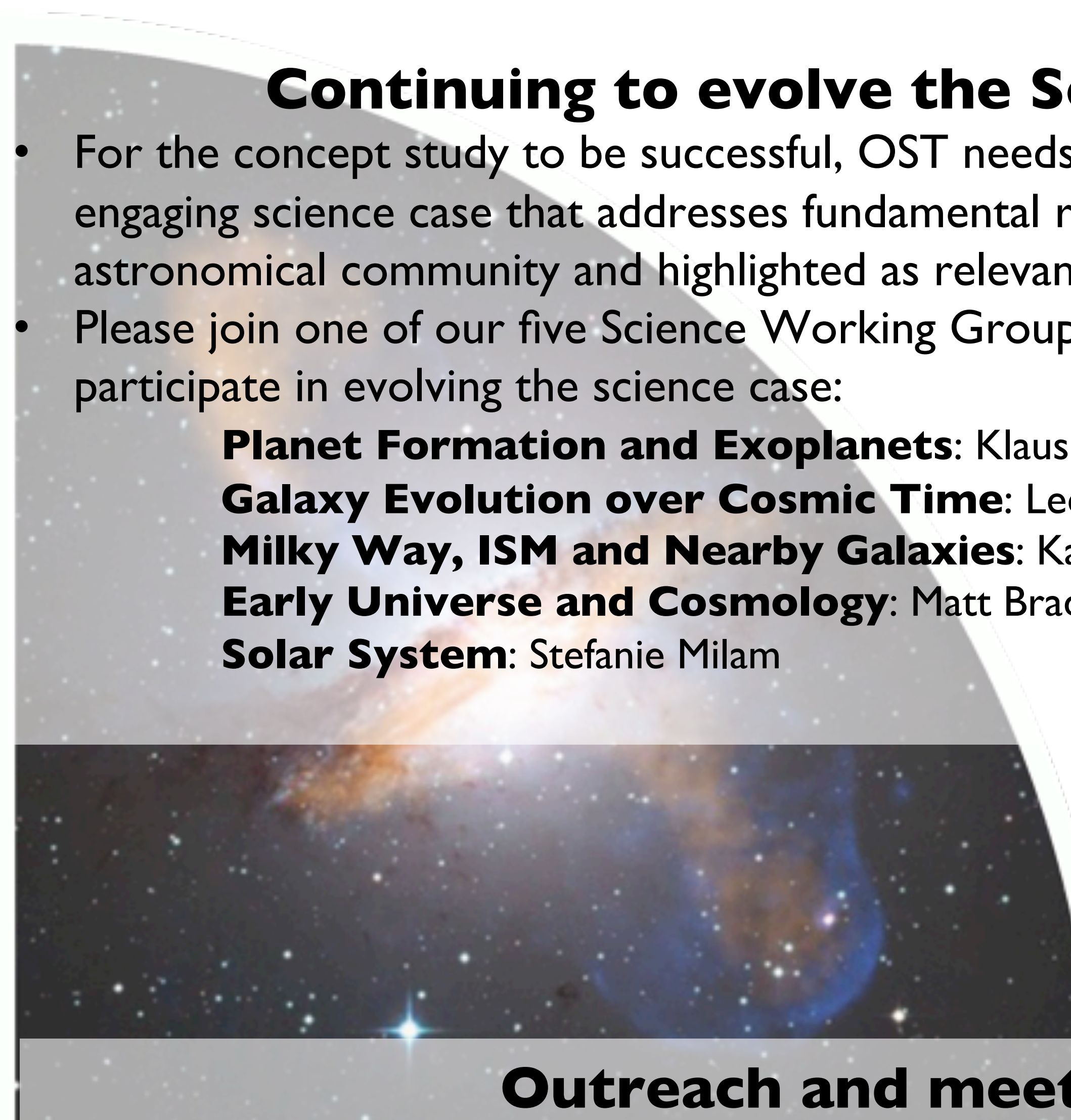
Planet Formation and Exoplanets: Klaus Pontoppidan and Kate Su

Galaxy Evolution over Cosmic Time: Lee Armus and Alex Pope

Milky Way, ISM and Nearby Galaxies: Karin Sandstrom and Cara Battersby

Early Universe and Cosmology: Matt Bradford and Joaquin Vieira

Solar System: Stefanie Milam

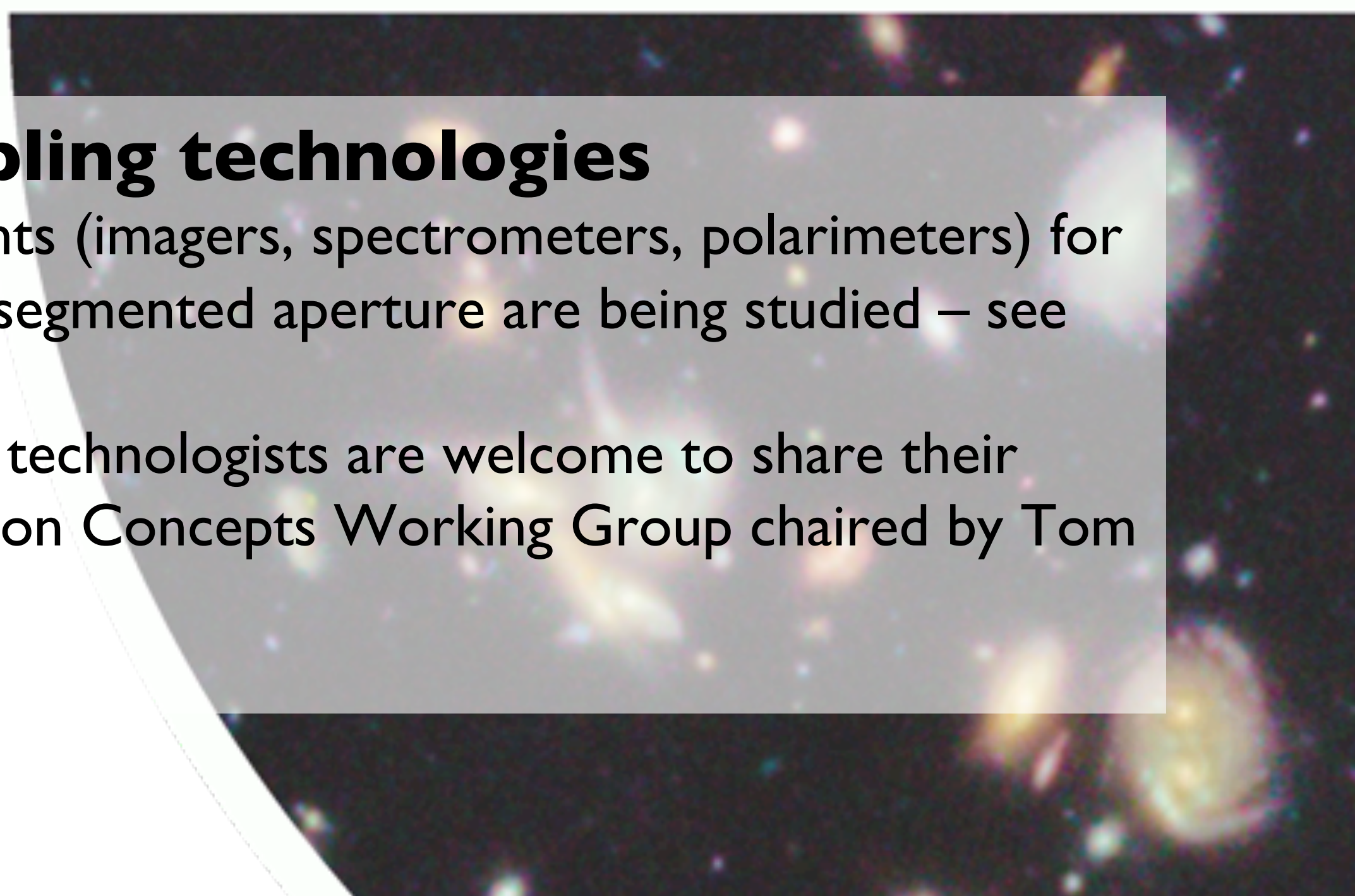


Outreach and meetings

- The Origins Space Telescope is intended to be a general astronomical observatory able to address our science questions of the 2030s (four core questions are described in poster 238.18). As such OST will support a community much broader than the core infrared community of previous telescopes with higher level data products that are accessible to the general community. Astronomers do not have to be experts in far-infrared observing to get involved!
- STDT members are present at AAS meetings to share progress and answer questions
- More information and resources for presentations will be available on the OST website

Enabling technologies

- Currently five instruments (imagers, spectrometers, polarimeters) for a large, actively cooled, segmented aperture are being studied – see poster 238.20
- Instrument builders and technologists are welcome to share their expertise with our Mission Concepts Working Group chaired by Tom Roellig



**Community Participation is critical to a successful design study for the Origins Space Telescope!
Contact any member of the STDT (look for the red OST stickers) or see our website for more information**

We need you!