

Email: gillianw@ucr.edu

November 20th, 2022

Dr. Harry Teplitz (ENSCI SDS-US Lead and Task Lead)
Dr. George Helou (IPAC director)
Infrared Processing and Analysis Center Caltech
Pasadena CA 91125

Dear Harry and George,

This document reports on the inaugural Euclid NASA Science Center at IPAC (ENSCI) User Panel meeting held virtually on May 10th, 2022. As described in its charter, the role of the User Panel is to:

- Act as a representative of the U.S.-based scientific user community, providing feedback, suggestions, and advice to ENSCI on its services and priorities.
- Assist ENSCI as they work with IRSA to define requirements for the U.S.-based Euclid archive (IRSA). Specifically, the Panel will provide input on community research needs for data exploration and analysis tools, and work with ENSCI to define required capabilities.
- Identify challenges/opportunities to U.S.-based Euclid investigators and suggest ways for ENSCI to address them.
- Help ENSCI improve communication channels that offer technical support for the U.S. astronomical community throughout all phases of the Euclid mission,
- Write at least one report per year, to be made available to the community and to NASA, summarizing their input and work on the charter points above.

The members of the Panel attending the meeting were Prof. Gillian Wilson (UC Riverside; Panel Chair), Dr. Antara Basu-Zych (UMBC/GSFC), Prof. Yicheng Guo (U. Missouri), Dr. Katarina Markovic (JPL; EC), Dr. Eric Murphy (UVA, NRAO), Prof. Michael Rutkowski (Minnesota State University), and Prof. Michael Troxel (Duke). Prof. Caitlin M. Casey (UT Austin; EC) was unable to be present. The meeting lasted three hours and consisted of 12 presentations from Drs. George Helou, Harry Teplitz, Yun Wang, James Colbert, Ben Rusholme, Phil Appleton, Vandana Desai, Shoubaneh Hemmati and Anahita Alavi on the various activities of ENSCI and live discussion time among the panel.

The Panel was provided overviews of Euclid's mission, science goals, instruments and science working groups (SWGs), and ENSCI's role in providing community support to U.S. science teams and archival users. Specifically, the panel heard about ENSCI's plans for:

- Detector characterization archive
- Participation in calibration and science pipelines for the NISP instrument
- Participation in mission verification
- Participation in performing initial Data Quick Look Analysis (DQLA)
- Establishing and operating the U.S. Science Data Center (SDC-US)
- Interfacing with the NASA/IPAC Infrared Science Archive (IRSA) to develop the U.S. Euclid archive
- Developing documents and tutorials
- Developing data analysis tools necessary to support archival research which are unavailable from ESA

In summary, the Panel was pleased with ENSCI's plans, thanks the presenters, and is supportive of the activities that ENSCI is prioritizing in preparation for Euclid's upcoming launch.

Sincerely,



Gillian Wilson

Gillian Wilson

on behalf of the ENSCI User Panel members: Antara Basu-Zych, Caitlin M. Casey, Yicheng Guo, Katarina Markovic, Eric Murphy, Michael Rutkowski, and Michael Troxel