Workshop Agenda

Topics in red font are intended to have limited capability for remote participation via Zoom:

https://caltech.zoom.us/j/89684423800?pwd=ZjNNRFJMSG5jVWQrTmtJWXgyM3BQUT09
Meeting ID: 896 8442 3800
Passcode: 099942

• Tuesday May 7, 2024
  o 8:30 AM – 9:00 AM PDT: Breakfast
  o 8:55 AM – 9:00 AM PDT: Joe (logistics) & Lindley
  o 9:00 AM – Noon PDT: **Intro to NEO Surveyor and mission description**
    ▪ 9:00 – 9:30: Intro to Surveyor, simulations – Amy Mainzer
    ▪ 9:30 – 10:00: Project Overview – Tom Hoffman
    ▪ 10:00 – 10:30: PSE overview; instrument overview – Serge Dubovitsky
  o 10:30 – 10:50: Break
    ▪ 10:50 – 11:10: Mission System – Mark Rokey
    ▪ 11:10 – 11:30: Orbit and Nav – Mar Vaquero
    ▪ 11:30 – 12:00: Mission Planning – Chris Lawler
  o Noon – 1:00 PM PDT: Lunch
    ▪ 1:00 – 1:45: NSDS and IRSA – Roc Cutri
    ▪ 1:45 – 2:00: Calibration and Noise Estimates – Sean Carey
    ▪ 2:00 – 2:30: Survey Simulator Design and Validation – Dar Dahlen
  o 2:30 – 3:00: Description of example data – Joe Masiero
  o 3:00 – 5:00: attendees download, interact with sample data
  o 6:00 PM – 8:15 PM PDT: Group Dinner on the Bahia Belle Sternwheeler

• Wednesday May 8, 2024
  o 8:30 AM – 9:00 AM PDT: Breakfast
  o **Invited speaker presentations on synergies with other science and surveys**
    ▪ 9:00 – 9:20: Federica Spoto: “Minor Planet Center: preparing for NEO Surveyor”
    ▪ 9:40 – 10:00: Ed Rivera-Valentin: “Ground-based radar NEO observations and synergies with NEO Surveyor”
    ▪ 10:00 – 10:20: Michele Bannister: “Interstellar objects: opportunities for NEO Surveyor and Rubin”
- 10:40-10:50 Break

- **Invited Early Career presentations**
  - 10:50 – 11:00: Yuna Kwon: **COSINE (Cometary Object Study Investigating their Nature and Evolution)**
  - 11:00 – 11:10: Kiana McFadden: **Main-Belt Asteroid Thermal Modeling**
  - 11:20 – 11:30: Brian Murphy: **The Importance of Hyperspectral Monitoring of Planetary Defense Tests**
  - 11:30 – 11:40: Rosemary Dorsey: **Interstellar object visibility in LSST**
  - 11:40 – 11:50: Garrett Levine: **Detection and Dynamics of Small Near-Earth Objects**
  - 11:50 – 12:00: Pranvera Hyseni: **Experimental Constraints on the Composition of Soluble Organic Matter (SOM) and Ammoniated Salts on the Surface of Hydrated Asteroids**

- 12:00 – 1:00 PM PDT: Lunch

- **Invited Early Career presentations (con't)**
  - 1:00 – 1:10: Xavier Inosencio: **Characterization of two analogous objects: the case of 1990 UQ and 2022 NX1**
  - 1:10 – 1:20: Michael Lucas: **Evidence for early fragmentation-reassembly of stony meteorite parent bodies**
  - 1:20 – 1:30: John Forbes: **Streams of interstellar objects**
  - 1:30 – 1:40: Yoonyoung Kim: **NEOWISE Observations of Comet P/2010 H2**

- 1:40 – 2:00 PM PDT: Introduction of sample science topics – Yoonyoung Kim
- 2:00 – 5:00 PM PDT: Small group breakout sessions to work on science topics

- **Thursday May 9, 2024**
  - 8:30 AM – 9:00 AM PDT: Breakfast
  - 9:00 AM – 10:30 AM PDT: Small group presentations on findings

  - 10:30 – 10:40 AM PDT: Break

  - 10:30 AM – noon PDT: Additional simulated data distribution, group reshuffle, science topic work session

  - noon – 1:00 PM PDT: Lunch

  - 1:00 PM – 3:30 PM PDT: Continued Science Topic work session
  - 3:30 PM – 4:30 PM PDT: Small group presentations on findings
  - 4:30 PM – 4:45 PM PDT: Lessons Learned – Joe Masiero
  - 4:45 PM – 5:00 PM PDT: Closing remarks – Amy Mainzer