

IPPW – 13

Co-hosted: JHUAPL & NASA GSFC

June 2016 – Laurel MD, USA

Near Washington DC & Baltimore, MD

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IPPW 13 Dates and Location

- Dates
 - Short Course: 11-12 June 2016
 - Workshop: 13-17 June 2016
- Location
 - Laurel, Maryland; 38 km from Washington DC or 30 to Baltimore
 - Served by BWI, Reagan National, and Dulles (international) airports.

Hosts:

- Johns Hopkins Applied Physics Laboratory and NASA's Goddard Space Flight Center.
- APL is a University Affiliated Research Center with considerable heritage in robotic and planetary missions.
- NASA GSFC is NASA largest science and robotics mission center with a world-renowned science and engineering

Meeting Venue - APL's Kossiakoff Center

- APL's onsite education and meeting center
 - 500 person auditorium – renovated
 - Dozens of adjacent classrooms
 - Wifi prevalent, catering and dining available to registrants
- New hotel, Homewood Suites, adjacent to the Kossiakoff Center
 - Rates average under \$150 USD
 - Other hotels roughly six miles away
- Five restaurants in close proximity
- Applied Physics Laboratory: Kossiakoff Center, 11100 Johns Hopkins Road Laurel, MD 20723-6099



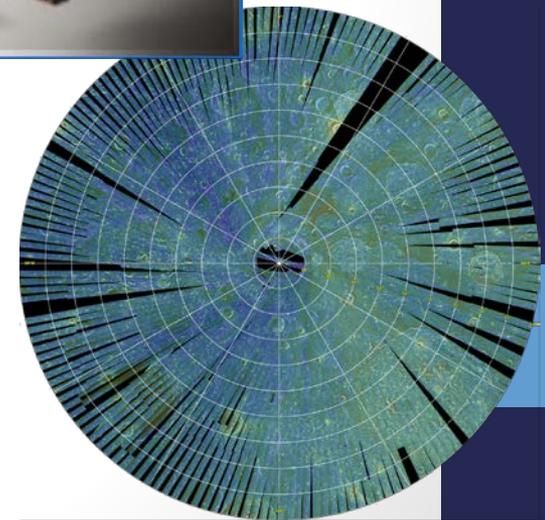
Why APL and GSFC?

- Proximity to APL and NASA GSFC (25 minutes)
 - Both are significant US planetary mission organizations.
 - IPPW tours of both APL and GSFC will be offered.
- Major US federal agencies
- Most major aerospace HQs
- Washington DC, Georgetown, Concert venues, Fringe Festival, Baltimore, Annapolis, Columbia, Alexandria, Multiple major universities – UMD, JHU, GW, George Mason
- Three nearby airports: Dulles, Reagan and BWI



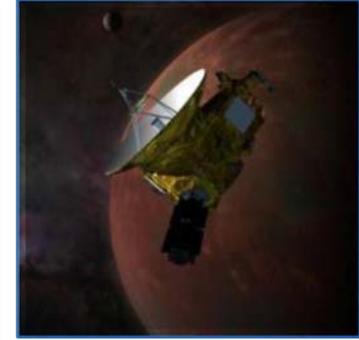
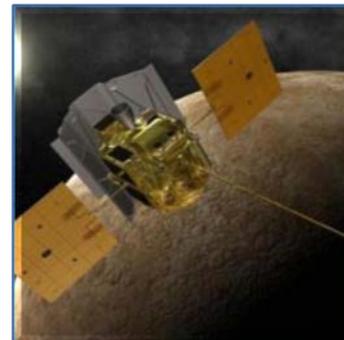
APL – Vision and Purpose

- The Johns Hopkins University Applied Physics Laboratory was founded in 1942
 - Johns Hopkins was the first research university in the US.
- Notable technological successes at APL include satellite navigation, robotics and human prosthetic work, terrain relative navigation and precision navigation, aerodynamics and aerothermal entry.
- Planetary missions and instruments such as NEAR landing on Asteroid Eros, Burnt Frost, MESSENGER and New Horizons; lunar lander concepts.



Civil Space Portfolio

- Built and operates for NASA:
 - MESSENGER – April 2015
Decommissioned on Mercury
 - New Horizons
 - TIMED
 - STEREO
 - Van Allen Probes
- Building Solar Probe Plus to fly
through Sun's Corona
 - Highly specialized TPS



NASA Goddard Space Flight Center (GSFC) Installations



NASA GSFC Greenbelt, Maryland Main Campus



NASA GSFC Wallops Flight Facility



NASA GSFC Independent Verification and Validation Facility



NASA GSFC White Sands Complex



Goddard Institute for Space Studies



- NASA's Goddard Space Flight Center is home to the nation's largest organization of combined scientists, and engineers that build spacecraft, space instruments and new technology.
- Named for American rocketry pioneer Dr. Robert H. Goddard, the center was established in 1959 as NASA's first space flight complex. Goddard and its several facilities are critical in carrying out NASA's missions of space exploration and scientific discovery.
 - Goddard was NASA's first space flight center.
 - Goddard employs approximately 10,000 civil servants and contractors
 - Goddard is a major laboratory for developing and operating unmanned scientific spacecraft.
 - Home of Physics Nobel Prize Winning scientist John Mather for his work on the COBE mission.
 - Goddard has launched over 290 missions over a period of 50 years.
 - Goddard's cadre of scientists is larger than any other institution.
 - Goddard has developed more planetary instruments than any other institution on Earth.
 - Goddard has led space communications since the inception of human spaceflight.
 - Goddard developed and manages the largest civilian information system in the world.
 - Goddard has over 40 years of experience managing the development of NOAA's weather satellites.
 - Goddard Wallops has launched over 16,000 suborbital and orbital missions.

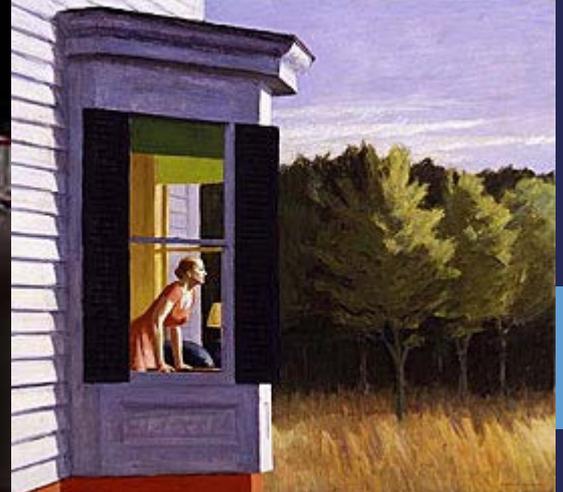
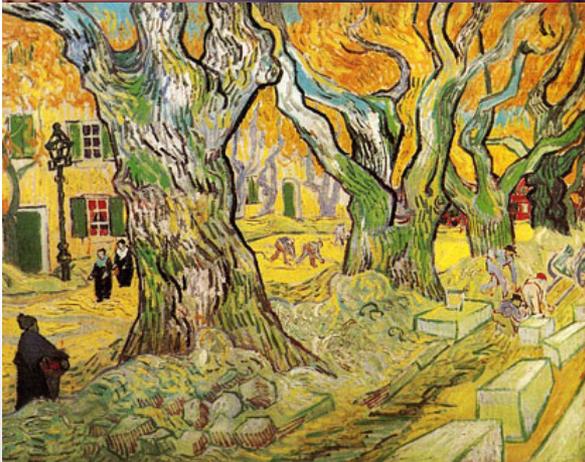
Activity Possibilities

- Dinner cruise: Washington, DC or Annapolis, MD.
- Baseball: DC or Baltimore
- Baltimore Museum of Art (adjacent to JHU) with dinner
- Adventure park with zipline, climbing.



Washington, DC

- Baseball, Zoo, walkable downtown and major attractions include great free museums, Air and Space Museum.



Baltimore, MD

- Waterfront attractions, Science Center, and National Aquarium



Next Steps for IPPW 13!

- Local Organizing Committee in formation
 - Other DC/MD/VA based organizations welcome to join
- Bookmark the Dates:
 - Short Course: 11-12 June 2016
 - Workshop: 13-17 June 2016
- Website Live
 - October 2015 target date; emails to IPPW mailing list