

EuroPlanet Workshop in London, 10-11 May 2018:

'New Views of Jupiter: Pro-Am Collaborations during and beyond the NASA Juno Mission'

Guideline: *This workshop is a unique opportunity for discussion, so speakers should allow for Q&A during their allotted slots to keep the schedule and ensure plenty of time for structured discussion.*

Day 1: Thursday May 10th:

Venue: Royal Astronomical Society, Burlington House

Chair: Leigh Fletcher

Session 1: Science from Juno

09.40-10.00: Arrival and Registration

10.00-10.15: Introduction and Logistics (Fletcher & Rogers)

10.15-10.55: Overview of Juno Mission and MWR Results (Orton & Bolton)

10.55-11.15: Jupiter's Interior Structure (Guillot)

11.15-11.45: Coffee Break

11.45-12.00: Jupiter's Magnetic Field (Jones)

12.00-12.20: Jupiter's Aurora & Atmosphere from JIRAM (Mura)

12.20-12.40: JunoCam: Public Participation and Results (Hansen)

12.40-13.00: Discussion and Questions (Juno Panel)

13.00-14.00: Lunch

(RAS Council Room, with display of RAS & BAA Exhibits in Library)

Session 2: Imaging and Atmospheric Changes

Chair: Glenn Orton

14.00-14.20: Processing JunoCam Images (Eichstädt)

14.20-14.50: Pro-Am Monitoring of Jovian Variability (Hueso & Sanchez-Lavega)

14.50-15.10: Present State of Jupiter's Atmosphere (Rogers)

15.10-15.30: Mapping the planet with WinJUPOS (Vedovato & Jacquesson)

15.30-16.00: Tea Break

16.00-16.25: Techniques for getting good amateur images (Go)

16.25-17.00: Discussion and Questions (Juno Panel)

17:00: End of first day's sessions.

17.10: Group photo ('Take 1').

17.15-18.00 (optional): Tour of Royal Society, 7 Carlton House Terrace (limited to 15 people).

19.00 onwards (optional): Conference dinner, Cooper's Restaurant, Lincoln's Inn Fields.

Day 2: Friday May 11th:

Venue: Linnean Society, Burlington House

Chair: John Rogers

08.30-09.15 (optional): Tour of Royal Society, 7 Carlton House Terrace (limited to 15 people).

Session 3: Amateur Imaging and Image Analysis

09.30-09.45: Up-sampling video data prior to processing planetary images (Wesley)

09.45-10.00: Ground-based Imaging during the Juno Mission (Foster)

10.00-10.15: Adaptive optics and the Pic du Midi Obs. (Dauvergne/Colas)

10.15-10.30: The periodic rifting in the Red Spot Bay (Horikawa)

10.30-10.45: Making animations from amateur Jupiter images (Rosen)

10.45-11.00: Latest developments in AutoStakkert! (Kraaikamp)

11.00-11.30: Coffee Break

11.30-11.40: Current amateur imaging & image analysis (Kowollik)

11.40-11.50: Simple measurement of belt/zone latitudes (Kardasis)

11.50-12.00: Monitoring impacts on Jupiter: Update on the DeTect project (Delcroix)

12.00-12.10: Databases for planetary images: PVOL (Hueso)

12.10-13.00: Discussion: Image analysis; Requirements and discussion of existing and future software (updates to WinJupos, Autostakkert, Firecapture, others?);
Repositories for ground-based images and maps.

13.00-14.00: Lunch

(Linnean Library)

Session 4: Future Directions

Chair: Ricardo Hueso

14.00-14.30: Future IR Observing and Mission Support (JWST/JUICE) (Fletcher)

14.30-14.45: Hubble and ground-based professional programmes (Orton)

14.45-15.00: Juno's atmospheric studies: plans and prospects for collaboration (Hansen)

15.00-15.30: Contributed Talks [5 mins each]

15.30-15.50: Tea Break

15.50-17.00: Discussion: Future topics of pro-am collaborative investigation
(e.g. impacts, climatic cycles, wind and colour variability).

17.00: End of Workshop

17.10: Group photo ('Take 2').