

**Remote Sensing of the Inner Heliosphere Workshop
Aberystwyth, 05-08 May 2009**

Programme

Tuesday 05 May 2009

- 14:00 Workshop commences with introduction and welcome by the Workshop organisers plus an outline of the Workshop programme, its aims and goals and a note regarding the proceedings.
- 14:00 Formal introduction by Andy Breen and Noel Lloyd, Vice-Chancellor of Aberystwyth University
- 14:05 Introduction to Aberystwyth by Richard Fallows
- 14:10 Details on the Workshop Proceedings to Solar Physics by Mario Bisi
- 14:15 Session 1: Summary talks from each Institution (12 + 3 minutes) [Chair: Andy Breen; Notetaker: Richard Fallows]:
- 14:15 Americo Gonzales-Esparza et al., Universidad Nacional Autonoma de Mexico, First catalogue of IPS sources detected at the Mexican Array Radio telescope (MEXART)
- 14:30 Bernard Jackson et al., University of California, San Diego, A Summary of UCSD work since the Toyokawa IPS Workshop
- 14:45 Periasamy Manoharan, Tata Institute of Fundamental Research, Interplanetary Scintillation Measurements at Ooty
- 15:00 Munetoshi Tokumaru et al., Solar-Terrestrial Environment Laboratory, Upgrade of STEL Multi-Station Interplanetary Scintillation System and Recent Observations of the Solar Wind
- 15:15 Sergei Tyul'bashev et al., Puschino Radio Astronomy Observatory, Monitoring of interplanetary and ionosphere scintillation at the frequency 111 MHz
- 15:30 Divya Oberoi and Leonard Benkevitch, MIT Haystack, The Murchison Widefield Array : Status, preliminary results and plans
- 15:45 Andy Breen, Aberystwyth University, Where next for heliospheric physics?
- 16:00 Tea and coffee break
- 16:30 Discussions and working on where to go with future remote-sensing observations and any obvious collaborations/work which are brought out as a result from these institutional summary talks plus recent comparative works with differing IPS arrays [Chair: Mario Bisi; Notetaker: Richard A. Fallows].
- 17:50 Roundup of the day and reminder of the plan for the rest of the workshop by the Workshop organisers.
- 18:00 Tuesday close, pub beckons...

Wednesday 06 May 2009

- 09:00 Brief announcements from the Workshop organisers.
- 09:10 Session 2: Faraday rotation and heliospheric magnetic fields talks (15 + 5 minutes) [Chair:

Periasamy Manoharan; Notetaker: John Clover]:

- 09:10 Jensen et al., Faraday Rotation Response to CME Structure
- 09:30 Chashei et al., Radio Sounding of the Near-Sun Plasma Using Polarized Pulsar Pulses
- 09:50 Jensen, Review of Columnar Density Changes with Differential Doppler
- 10:10 Hick et al., Faraday Rotation: Expected Possible Heliospheric Analyses from Polarized Radio Sources
- 10:30 Discussion on remote sensing of heliospheric magnetic fields and their possible 3D reconstruction. [Chair: Periasamy Manoharan; Notetaker: John Clover].
- 11:00 Tea and coffee break
- 11:30 Continued discussion on remote sensing of heliospheric magnetic fields and their possible 3D reconstruction. [Chair: Periasamy Manoharan; Notetaker: John Clover].
- 12:15 Lunch
- 13:15 Workshop Outing:
 - 13:15 Assemble for the coach
 - 13:30 Coach departs for Nant-yr-Arian (approx 20 minutes)
Free time to explore the short walks and scenery of Nant-yr-Arian
 - 15:00 Red Kite feeding time
 - 15:20 Coach departs for Devil's Bridge
 - 16:00 Steam train to Aberystwyth
 - 17:00 Arrive back in Aberystwyth
- 19:00 Workshop dinner at Tides Restaurant. Dress code: Smart/casual or whatever you have with you!

Thursday 07 May 2009

- 09:00 Brief announcements from the Workshop organisers.
- 09:10 Session 3: IPS data format session (12 + 3 minutes) [Chair: Divya Oberoi; Notetaker: Andrew Buffington]:
 - 09:10 Bisi, The Interplanetary Scintillation (IPS) Data Format: a Brief Summary Following the Toyokawa IPS Workshop
 - 09:25 Benkevitch and Oberoi, A common format IPS database
- 09:40 Discussion on a common IPS data format and finalisation on how to progress with this [Chair: Divya Oberoi; Notetaker: Andrew Buffington].
- 11:00 Tea and coffee break
- 11:30 Session 4: CMEs, SIRs and space weather forecasting (15 + 5 minutes) [Chair: Andy Breen; Notetaker: Leo Benkevitch]:
 - 11:30 Dorrian et al., Joint Interplanetary Scintillation and Heliospheric Imager observations of CMEs and CIRs
 - 11:50 Clover et al., Measurements of White-Light Images of Cometary Plasma as a Proxy for Solar Wind Speed

- 12:10 Fujiki et al., Solar Wind Forecast by using Interplanetary Scintillation Observation
- 12:30 Brief discussion on CMEs, SIRs, and Space Weather forecasting [Chair: Andy Breen; Notetaker: Leo Benkevitch].
- 12:45 Lunch
- 14:00 Session 5: White light imaging of the inner heliosphere (15 + 5 minutes) [Chair: Mario Bisi; Notetaker: Divya Oberoi]:
- 14:00 Morgan, Revealing CMEs in white light coronagraph images
 - 14:20 Buffington et al., Removal of background light from SMEI white-light all-sky maps, and an all-sky imager design suitable for future deep-space missions
- 14:40 Discussion on where to go with white-light observations, proper calibration of the HIs, and possibilities of future white-light tomographic reconstructions with SMEI, HI, and other sources of remote-sensing white-light observations. [Chair: Mario Bisi; Notetaker: Divya Oberoi].
- 16:00 Tea and coffee break
- 16:30 Session 6: Discussion on possible cross-collaborations as a result of the Workshop [Chair: Richard Fallows; Notetaker: Mario Bisi].
- 17:30 Workshop roundup by the Workshop organisers and reminder/details regarding proceedings and deadlines.
- 18:00 Workshop close

Friday 08 May 2009 (TBC)

- 09:30 Tour of facilities at Aberystwyth
- 11:00 Tea and coffee break