

**30th IADC Meeting
CSA
Montreal, Canada
May 22-25, 2012**

Working Group 1: Measurements

Agenda of the Meeting (Version 1, May 21, 2012)

TIME	May 22 Tuesday	May 23 Wednesday	May 24 Thursday	May 25Friday
08:30-10:00	9:00-10:00 Registration & Welcome Reception	WG1 Session 2.1 Instrumentation	WG1/WG2 Session 3.1	
10:00-10:15	10:00-11:30 Opening Plenary McGill Stephen Leacock Building Rm 232	Coffee Break	Coffee Break	10:00-12:00 Closing Plenary McGill Stephen Leacock Building Rm 232
10:15-11:30		WG1 Session 2.2 Observations	WG1 Session 3.2 Open ITs	
11:30-13:30	Lunch	Lunch	Lunch	
13:30-15:00	WG1 Session 1.1 General	WG1 Session 2.3 Observations	WG1 Session 3.3 Open Its, Future Activities	
15:00-15:30	Coffee Break	Coffee Break	Coffee Break	
15:30-17:00	WG1 Session 1.2 Open AIs	WG1 Session 2.4 WG1/WG2 preparation	WG1 Session 3.4 Review and Closing	
17:00-18:00	WG1 Chair report to SG	WG1 Chair report to SG	WG1 Chair report to SG	

20:00-21:00 Public Lecture McGill (IASL) Moot Court	19:30-23:00 Dinner Old Montreal
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All WG sessions take place at the McGill Faculty Club

Day 1: Tuesday, May 22

9:00 – 10:00 Registration & Welcome Reception

10:00 – 11:30 Plenary Meeting

- Welcome and Overview – IADC Chair
- Presidential Address
- Inaugural Address Statements by Heads of Delegations
- Outline by Working Group Chairs
- Plenary Presentations

11:30 – 13:30 Lunch

13:30 – 15:00 Session 1.1

General

- Meeting overview & objectives; status of Action Items, Summary of SG meeting October 2011 (T. Schildknecht, ESA, F. Piergentili, ASI, 10min)
- Update and approval of Agenda
- Agency Status Reports: space debris related activities in 2011/2012 (5 min per WG1 member Agency: ASI, CNES, CNSA, CSA, DLR, ESA, ISRO, JAXA, NASA, ROSCOSMOS, SSAU, UKSpace)

15:00 – 15:30 Coffee Break

15:30 – 16:45 Session 1.2

General (continue)

- Agency Status Reports: continuation

Open Action Items

- Final report for AI 23.2 (Investigation of high A/m ratio debris in higher Earth orbits) (V. Agapov, Roscosmos, T. Schildknecht, ESA, 10min)
- Discussion of AI 23.2 (all)
- Final report for AI 23.4 (International 2007 optical observation campaigns in higher Earth orbits) (P. Seitzer, NASA, F. Piergentili, ASI, 10min)
- Discussion of AI 23.4 (all)
- AI23.3, AI25.1, AI 28.1 (International 24h LEO space debris measurement campaign 2006, 2008, 2010) (G. Stansbery, NASA, T. Flohrer, ESA, 10min), status of Final Reports

16:45 – 17:00 Preparation of WG1 report to SG

17:00 – 18:00 WG reports to SG

Day 2: Wednesday, May 23

08:30 – 10:00 Session 2.1

Instrumentation/Observations

- Status of TIRA Upgrade Activities (K. Letsch, DLR), 15min
- MCAT Update (G. Stansbery, NASA, 15min)
- Satellite Handoff from MCAT (P. Kervin, NASA, 15min)
- Study on infrared observation potential (P. Richard, CNES, 15min)
- Further results of the spectrometry observations from the Loiano 1,5 meter telescope (F. Piergentili, ASI, 15min)

10:00 – 10:15 Coffee Break

10:15 – 11:30 Session 2.2

Observations

- Detection and orbit determination of un-cataloged GEO objects at Nyukasa Observatory and Bisei Spaceguard Center (Toshifumi Yanagisawa, Jaxa, 15min)
- Measurement accuracy for orbit determination of GEO close approaching objects (F. Piergentili, ASI, 15min)
- Optical Studies of GEO Debris with the 6.5-m Magellan Telescopes (P. Seitzer, NASA, 15min)
- Results of Optical Surveys for Space Debris in MEO (T. Schildknecht, ESA, 15min)

11:30 – 13:30 Lunch

13:30 – 15:00 Session 2.3

Observations (cont.)

- Catalogue of high AMR GEO-like debris (T. Schildknecht, ESA, 15 min)
- Photometry of Rocket bodies (Yiding Ping, CNSA, 15min)
- Optical tumbling rate observation experiments on LEO and GTO objects (P. Richard, CNES, 15min)

15:00 – 15:30 Coffee Break

15:30 – 16:45 Session 2.4

Observations (cont.)

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WG1/WG2 Session preparation

- IT25.1 Data Exchange format
- Issues to be discussed with WG2
- Nomination of new WG1 Co-Chair (to be submitted to SG)

16:45 – 17:00 Preparation of WG1 report to SG

17:00 – 18:00 WG reports to SG

20:00 – 21:00 Public Lecture

Day 3: Thursday, May 24

08:30 – 10:00 Joint WG1/WG2 Session 3.1

Other topics

- WG2: The attitude evolution of conductive objects in magnetic field (from standard radar measurements) (Carlos, CNES, 10min)
- WG2: Multi-Layer Insulation Debris from GEO Fragmentations (Sven, DLR, 10min)

AI 25.1: Data Exchange Format

- WG2: WG1-WG2 Data Exchange Document (P. Krisko, NASA, 10min)
- WG1/WG2: Discussion on Data Exchange Document (15min)

Other topics

- WG1/WG2: Discuss the origin of some of the HAMR currently observed (A. Rossi ASI, ??min)
- WG1: ESA Classification of Geosynchronous Objects, Issue 14 (T Flohrer, ESA, 5min)
- WG1: The IADC re-entry database Web-frontend (T. Flohrer, ESA, 5min)
- WG1: IADC re-entry predictions campaigns For UARS, ROSAT, and Phobos-Grunt (H. Klinkrad, ESA, 5min)
- WG1: Search for fragments caused by breakup of Titan 3C transtage in the geostationary region (Toshifumi Yanagisawa, Jaxa, 5min)
- WG1: Light curve observations of LEO objects at the innovative technology research center of JAXA (Toshifumi Yanagisawa, Jaxa, 5min)

10:00 – 10:15 Coffee Break

10:15 – 11:30 Session 3.2

Open Internal Tasks

- Conclusions from joint WG1/WG2 session (IT25.1 Data Exchange format, etc.)
- IT25.2 Preparation of future High AMR campaign (V. Agapov, Roscosmos)

11:30 – 13:30 Lunch

13:30 – 15:00 Session 3.3

Open Internal Tasks (cont.), Future Activities

- IT26.1 Preparation of new high Earth orbit campaign (P. Seitzer)
- IT 28.1 Calibration (V. Agapov, Roscosmos, T. Schildknecht, ESA, 10min)
- Discussion on IT 28.1 (all)
- IT28.2 Comparison of CCD image processing approaches (P. Richard CNES, 10min)
- Optical measurement calibration using an attended GEO satellite (P. Richard, CNES, 15min)
- Discussion on IT 28.2 (all)
- IT29.1 Investigation and comparison of techniques for tumbling rate assessment of massive LEO objects (F. Piergentili (ASI), G. Stansbery (NASA), 10min)
- NASA Contribution to IT29.1 (G. Stansbery, 10min)
- Discussion on IT 29.1 (all)

15:00 – 15:30 Coffee Break

15:30 – 16:45 Session 4.3

Review and Closing

- Discussion on future role and activities of WG1
- Wrap-up
- AoB

16:45 – 17:00 Preparation of WG1 report to SG & Closing Plenary

17:00 – 18:00 WG reports to SG

19:30 – 22:00 Conference Dinner

Day 4: Friday, May 25

10:00 – 12:00 Closing Plenary

- Working Group Reports
- Report by SG
- Remarks by Outgoing and new IADC Chair