

# IADC 36<sup>th</sup> Tsukuba—WG1 Agenda

**Day1: Tuesday 5<sup>th</sup> June 2018**

**08:45 — 09:30 Registration**

**09:30 — 11:20 Opening Plenary of 36<sup>th</sup> IADC meeting Part 1**

*Convention Hall*

1. Welcome Speech (M. Ohnishi, JAXA)
2. Opening Remarks (M. Harigae, JAXA)
3. Annual Reports (11 Organizations)
4. WG Status Reports (4 WGs)

**11:20 — 11:50 Coffee Break**

**11:50 — 13:00 Opening Plenary of 36<sup>th</sup> IADC meeting Part 2**

*Convention Hall*

1. Activities of Japan (S. Yamaguchi, Cabinet Office)
2. Activities of JAXA (K. Yamanaka, JAXA)
3. Activities of Private Sectors 1 (Kawasaki Heavy Industries)
4. Activities of Private Sectors 2 (ASTROSCALE)
5. Group Photo

**13:00 — 14:30 Lunch Break**

*Restaurant*

**14:30 — 16:00 Session 1.3 General**

*Conference room, 304*

1. Meeting overview and objectives, status of AIs, summary of October 2017 SG meeting (T. Yanagisawa, C. Zhao, 10 mins)
2. Update and approval of agenda (T. Yanagisawa, C. Zhao, 5 mins)
3. Agency status reports space debris related activities in 2017/2018(ASI, CNES, CNSA, CSA, DLR, ESA, ISRO, KASI, JAXA, NASA, ROSCOSMOS, UKSA, 5 mins per WG1 member Agency)

**16:00 — 16:30    Coffee Break**

**16:30 — 17:15    Session 1.4 General**

*Conference room, 304*

1. Status of report on AI 23.2 (T. Schildknecht, ESA, 10 mins)
2. Status of report on AI 31.2 (T. Yanagisawa, JAXA, 10 mins)
3. Lightcurve analysis of MMT data set (T. Yanagisawa, JAXA 10mins)
4. Status of report on IT 34.1 (F. Piergentili, ASI, 10mins)
5. Nominations for new Deputy Chair
6. Preparation of WG1 reports to SG

**17:45 — 19:45    Welcome Reception**

*Restaurant*

## **Day2: Wednesday 6<sup>th</sup> June 2018**

### **08:30 — 09:45 Session 2.1**

*Conference room, 304*

1. The attitude determination through lightcurve analysis (L. Parisi, F. Piergentili, ASI, 20mins)
2. Motion estimation of space debris using optical observation (C. Zhang, CNSA, 15 mins)
3. Attitude motion measurements and modeling (T. Schildknecht, ESA, 15mins)
4. Preparation of the joint session with WG2

### **09:45 — 10:15 Coffee Break**

### **10:15 — 11:30 Session 2.2 Joint session with WG2**

*Conference room, 303*

1. Attitude Detection using Light Curves: Progress Report (L. Blacketer, UKSA, 15mins)
2. Lightcurve analysis of MMT data set (T. Yanagisawa, JAXA 15mins)
3. Light curve Analysis for Characterisation and Anomaly Detection (L. Blacketer, UKSA, 15mins)
4. Recent major fragmentation of Transtage 17 (1969-013B) in GEO (V. Agapov, Roscosmos, 20 mins)
5. Discussion

### **11:30 — 13:00 Lunch Break**

*Restaurant*

### **13:00 — 14:15 Session 2.3**

*Conference room, 304*

1. Initial and follow-up orbit determination through radar and optical measurements: the Sapienza - Fraunhofer collaboration activity (D. Cerutti Maori, F. Piergentili, M. Budoni, C. Carloni, 20mins)
2. Estimation of the intrinsic motion of space objects using radar measurements (D. Cerutti-Maori, ESA, 15mins)
3. Concept of a space-based radar for detecting mm-size space objects (D. Cerutti-Maori, ESA, 15mins)

**14:15 — 14:45    Coffee Break**

**14:45 — 16:00    Session 2.4**

*Conference room, 304*

1. A new approach to LEO space debris observation: The Italian multibeam bi-static radar 'BIRALES' (G. Bianchi, P. Lizia, ASI, 20mins)
2. NSSAO progress - OWL-Net (J. Park, KASI, 20 mins)
3. Nominations for new Deputy Chair
4. Preparation of WG1 report to SG

### **Day 3: Thursday 7<sup>th</sup> June 2018**

#### **08:30 — 09:45    Session 3.1**

*Conference room, 304*

1. NASA Orbital Debris Program Office: Optical and Radar overview (S. Lederer, NASA, 10mins)
2. Tracking sources for ISRO launch base - Satish Dhawan Space Centre (BV SubbaRao, ISRO, 20mins)
3. Optoelectronic and laser assets for searching, detecting, determining orbits and images (A. Bondarenko, Roscosmos, 20 mins)
4. Laser-tracking and Optical Expert Centre status and first results (T. Schildknecht, ESA, 15mins)

#### **09:45 — 10:15    Coffee Break**

#### **10:15 — 11:30    Session 3.2**

*Conference room, 304*

1. ISON network development in 2017 (I. Molotov, Roscosmos, 20 mins)
2. The activity of the sapienza telescope network (F. Piergentili, ASI, 20mins)
3. Update on ESA optical survey observations (T. Schildknecht, ESA, 10mins)
4. Status and applications of TAROT telescopes in 2017 (P. Richard, CNES, 15mins)

#### **11:30 — 13:00    Lunch Break**

*Restaurant*

#### **13:00 — 14:15    Session 3.3**

*Conference room, 304*

1. Optical Observation Activities at JAXA (H. Hinagawa, JAXA, 20mins)
2. Results of operation of ASPOS OKP in 2017 (Nikolay Savin, Roscosmos, 20 mins)
3. Molniya-type orbits observations and proposals for a joint campaign (Alexander Lapshin, Roscosmos, 20 mins)

#### **14:15 — 14:45    Coffee Break**

#### **14:45 — 16:00    Session 3.4**

*Conference room, 303*

1. SCOOP: Space Collaborative Observation Platform (T. Schildknecht, ESA, 10mins)
2. New NEO Search Technologies Using Small Telescopes and FPGA (T. Yanagisawa, JAXA, 20mins)
3. Discussion about the New AIs
4. Preparation of WG1 report to SG

**18:00 — 20:00    Conference Dinner**

*Sansui Tei*

**Day 4: Friday 8<sup>th</sup> June 2018**

**08:30 — 10:15    Session 4.1**

*Conference room, 304*

1. Future directions for WG1
2. A.O.B
3. Preparation of final presentation to plenary meeting

**10:15 — 10:45    Coffee Break**

**11:00 — 12:45    Lunch Break**

*Restaurant*

**12:45 — 14:15    Closing Plenary 36<sup>th</sup> IADC meeting**

*Convention Hall*