

### 3rd International Symposium on Formation Flying, Missions and Technologies

#### FINAL PROGRAMME

#### Day 1 - Wednesday, 23 April 2008

08:30	Registration	
09:30	Welcome & Opening <i>Finn Ankersen</i>	
09:40	Welcome by director of ESTEC <i>M. Courtois</i>	
	<b>Topic 2 - New Mission Concepts</b> Newton Room Chairs: Simone D'Amico (DLR), Alexander Cropp (ESA)	
09:55	<b>Abstract</b> Fresnel Formation Flying: High Resolution Imager for Optical Astrophysics <i>Hinglais, E.1; Duchon, P.1; Koechlin, L.2; Serre, D.2; Deba, P.2</i> <i>1CNES (France); 2OMP (France)</i>	
10:20	<b>Abstract</b> An Innovative Spaceborne P-Band SAR Mission Based on Small Satellite and Formation Flying Technologies <i>Sechi, G.1; Fasano, G.2; Alberti, G.2; D'Errico, M.3; Cesare, S.4; Mazzini, L.4; Pavia, P.4; Torre, A.4; Esposti, M.L.4; Zin, A.4; Matticari, G.4; Bavaro, M.5; Dionisio, C.5; Cosmo, M.6; Formaro, R.6; Rioli, Q.6</i> <i>1Thales Alenia Space SpA - Italia (Italy); 2Consurtium for Research on Advanced Remote Sensing Systems (Italy); 3University of Naples, Department of Aerospace and Mechanical Engineering (Italy); 4Thales Alenia Space Italia S.p.A (Italy); 5Intecs SpA (Italy); 6Agenzia Spaziale Italiana (Italy)</i>	
10:45	<b>Abstract</b> PROBA-3: A Formation Flying Demonstration Mission on the Verge to be Realised <i>Sjöberg, F.1; Jakobsson, B.2; Karlsson, A.2; Teston, F.3; Burger, F.3</i> <i>1SSC (Sweden); 2Swedish Space Corporation (Sweden); 3ESA/ESTEC (Netherlands)</i>	
11:10	Coffee Break	
11:25	<b>Abstract</b> The FFIORD Experiment: CNES' RF Metrology Validation and Formation Flying Demonstration on Prisma <i>Harr, J.; Delpech, M.; Grelier, T.; Seguela, D.</i> <i>CNES (France)</i>	
11:50	<b>Abstract</b> Novel Emma Arrangement for DARWIN Mission <i>Sghedoni, M.; Krawczyk, R.; Pirson, L.; Ruillier, C.</i> <i>Thales Alenia Space (France)</i>	
12:15	<b>Abstract</b> Formation Flying Aspects of Different Instrument Concepts for DARWIN/TPF-I <i>Wallner, O.; Ergenzinger, K.; Flatscher, R.; Johann, U.</i> <i>Astrium GmbH (Germany)</i>	
12:40	<b>Abstract</b> Nonlinear Performance Analysis of DARWIN with respect to Formation Flying Fine Control Loops <i>Ergenzinger, K.1; Wallner, O.1; Villien, A.2</i> <i>1Astrium GmbH (Germany); 2Astrium SAS (Germany)</i>	
13:05	Lunch Break	
	<b>Topic 3 - Technologies and Design of Distributed Sensors Needing Formation Flying</b> Einstein Room Chairs: Luca Maresi (ESA), Zoran Sodnik (ESA)	<b>Topic 8, part 1 - Guidance, Navigation and Control Systems</b> Newton Room Chairs: Jesse Leitner (NASA), Thomas Chabot (ESA)
14:00	<b>Abstract</b>	<b>Abstract</b>

	High Accuracy Absolute Long Distance Metrology using Ultrafast Lasers: Frequency Combs and Spectral Interference <i>Holzwarth, R.1; Hänsch, T.W.1; Sizmann, A.1; Gill, P.2; Barwood, G.2; Margolis, H.2; Eikema, K.3; Uebachs, W.3; Klein, V.4</i> 1Menlo Systems GmbH (Germany); 2National Physical Laboratory (United Kingdom); 3Laser Centre Vrije Universiteit Amsterdam (Netherlands); 4Kayser-Threde GmbH (Germany)	DARWIN: A GNC Design for the EMMA Arrangement <i>Pirson, L.1; Sghedoni, M.1; Krawczyk, R.1; Ankersen, F.2</i> 1Thales Alenia Space (France); 2ESA/ESTEC (Netherlands)
14:25	<b>Abstract</b> High Accuracy Absolute Long Distance Metrology using Femto-Second Lasers: Heterodyning and Applications <i>Verlaan, A.L.1; Cabral, A.2; Witte, S.3</i> 1TNO (Netherlands); 2INETI (Portugal); 3Laser center Vrije Universiteit (Netherlands)	<b>Abstract</b> GNC for the Darwin Mission <i>Villien, A.1; Wallner, O.2; Ergenzinger, K.2</i> 1EADS Astrium Satellites (France); 2EADS Astrium GmbH (Germany)
14:50	<b>Abstract</b> Design and Performance Testing of the 5 Degrees of Freedom Formation Flying Sensor <i>Verlaan, A.L.</i> TNO (Netherlands)	<b>Abstract</b> FF Analysis and GNC Concept for a FF Mission in Highly Eccentric Orbit <i>Di Sotto, E.1; Peñin, L.F.2; Bastante, J.C.3; Marcos, A.2; Branco, J.3</i> 1Deimo Engenharia (Portugal); 2Deimos Space (Spain); 3Deimos Engenharia (Portugal)
15:15	<b>Abstract</b> An Integrated Formation Optical Communication and Estimation System for Precision Collaborative Missions <i>Hadaegh, F.Y.; Scharf, D.P.; Kuhnert, A.C.; Kovalik, J.C.; Acikmese, B.</i> Jet Propulsion Laboratory (United States)	<b>Abstract</b> Orbit Constellation Safety on the Prisma In-Orbit Formation Flying Test Bed <i>Larsson, R.1; Mueller, J.2; Thomas, S.2; Jakobsson, B.1; Bodin, P.1</i> 1Swedish Space Corporation (Sweden); 2Princeton Satellite Systems (United States)
15:40	Coffee Break & Poster Session	
16:40	<b>Abstract</b> A Generic Radio-Frequency Subsystem for High-Altitude Formation-Flying Missions <i>Thevenet, J.-B.1; Mehlen, C.1; Peyrotte, C.1; Grelier, T.2; Garcia, A.3; Gerner, J.-L.3; Lestarquit, L.2</i> 1Thales Alenia Space (France); 2CNES (France); 3ESTEC (Netherlands)	<b>Abstract</b> Design and Control of Relative Motion for Interferometric and Bistatic SAR <i>Sabatini, M.1; Fasano, G.2; Palmerini, G.3; D'Errico, M.4</i> 1Università di Roma La Sapienza (Italy); 2Università di Napoli (Italy); 3Università di Roma (Italy); 4Seconda Università di Napoli (Italy)
17:05	<b>Abstract</b> ULLIS - A Combined Optical Metrology Sensor with Minimum Accommodations Constraints <i>Napierala, B.; Leyre, X.; Sghedoni, M.; Rossi, E.</i> Thales Alenia Space (France)	<b>Abstract</b> Relative Motion Control for Along-Track Formation Flight in Low Earth Orbit: Linear Synthesis with Non-Linear Actuators <i>Demourant, F.; Chrétien, J.-P.</i> ONERA (France)
17:30	<b>Abstract</b> A Lateral Sensor for Simbolx Derived from Hydra Star Tracker <i>Blarrie, L.1; Pezant, C.1; Chalthe, C.1; Le Duigou, J.M.2; Martinez, P.E.2</i> 1EADS SODERN (France); 2CNES (France)	<b>Abstract</b> Pattern Transition in Spacecraft Formation Flying Via the Artificial Potential Field Method and Bifurcation Theory <i>Bennet, D.J.; McInnes, C.R.</i> Strathclyde University (United Kingdom)
17:55	<b>End of the day</b>	
18:00-19:30	<b>Welcome Cocktail</b>	
	<b>Poster Session</b>	
	<b>Abstract</b> PROBA-3 Formation Flying System Perspectives <i>Llorente-Martinez, J.S.1; Tarabini-Castellani, L.2</i> 1SENER Ingeniería y Sistemas (Spain); 2GMV Aerospace and Defence (Spain)	

**Abstract**

New Simulation Concepts Applied to Formation Flying Testbed Design

*Atori, R. 1; Baudoux, D. 1; Torette, D. 1; Goode, K. 2; Tarabini, L. 3; Franco, R. 4*  
*1Spacebel (Belgium); 2Scisys (United Kingdom); 3GMV Aerospace & Defence (Spain); 4ESA-ESTEC (Netherlands)*

**Abstract**

Delfi-TWIN: A Formation Flying Mission Concept

*Aas, C.; de Milliano, M.J.; Prakash, R.; Gill, E.K.A.*  
*TU Delft (Netherlands)*

**Abstract**

Orbits for LISA - Formation Flying without Orbit Maintenance

*Jennrich, O. 1; Heinzel, G. 2*  
*1ESTEC (Netherlands); 2AEI Hannover (Germany)*

**Abstract**

GA-Based Optimization for Formation Flying Initialization

*Dong-Lei, H.; Xi-bin, C.*  
*Research Center of Satellite Technology, Harbin Institute of Technology (China)*

**Abstract**

Research on the Model Predictive Control Approach for Satellite Formation Keeping

*Dong-Lei, H.; Xi-bin, C.*  
*Research Center of Satellite Technology, Harbin Institute of Technology (China)*

**Abstract**

Evaluation and Comparison of Two Impulsive Control Theories for Satellite Formation Establishment

*Wang, J.H.; Zhang, J.X.; Cao, X.B.*  
*Harbin Institute of Technology (China)*

**Abstract**

Carrier-Based Differential GPS Filtering Approaches for Precise Relative Positioning in Formation Flying with Highly Variable Inter-Satellite Distances

*Renga, A. 1; Grassi, M. 1; Intelisano, A. 2*  
*1University of Naples (Italy); 2Thales Alenia Space Italia (Italy)*

**Abstract**

RF-Based Relative Navigation for Formation Flying

*Voirin, T. 1; Kervendal, E. 1; Degeselle, J. 1; Grelier, T. 2; Delpech, M. 2*  
*1Astrium Satellites (France); 2CNES (France)*

**Abstract**

Autonomous Formation Flying RF Subsystem for PRISMA: Navigation Algorithm Design and Implementation

*Barrena, V. 1; Suatoni, M. 1; Flores, C. 1; Thevenet, J.B. 2; Mehlen, C. 2*  
*1GMV (Spain); 2TAS-F (France)*

**Abstract**

The Near Optimal Two-Impulse Analytical Solution of On-Orbit-Servicing Spacecraft for Fly-Around Orbit Reconfiguration

*Wang, F.; Cao, X.B.; Wang, J.H.; Lan, S.C.*  
*Harbin Institute of Technology (China)*

**Abstract**

Formation Control by Quantized Output Feedback

*Grøtli, E.I.; Gravdahl, J.T.*  
*Department of Engineering Cybernetics (Norway)*

**Abstract**

PID+ Tracking in a Leader-Follower Spacecraft Formation

*Kristiansen, R. 1; Krogstad, T.R. 2; Nicklasson, P.J. 1; Gravdahl, J.T. 2*  
*1Narvik University College (Norway); 2Norwegian University of Science & Technology (Norway)*

**Abstract**

Attitude Tracking Control of On-Orbit-Servicing Spacecraft Based on Eigenaxis Maneuver

*Wang, F.; Chen, X.Q.; Li, H.; Cao, X.B.*

## Day 2 - Thursday, 24 April 2008

09:00	<b>Keynote Speaker</b> Collective Behaviour <i>Dr. Iain Couzin, Princeton University</i>	
	<b>Topic 4 - Platform Technologies (propulsion, power supply, attitude, ranging, etc.)</b> Einstein Room Chairs: Alfred Ng (CSA), Li Ming (CNSA)	<b>Topic 8, part 2 - Guidance, Navigation and Control Systems</b> Newton Room Chairs: Fred Hadaegh (JPL), Finn Ankersen (ESA)
10:00	<b>Abstract</b> Thrust Measurements with the ONERA Micro-Newton Balance <i>Bonnet, J.; Rocca, S.; Packan, D. ONERA (France)</i>	<b>Abstract</b> Analysis of a Pulsed Cold Gas Option for Formation keeping of the XEUS/XRO Formation Flying Mission <i>Chabot, T.; Rando, N. ESA/ESTEC (Netherlands)</i>
10:25	<b>Abstract</b> Optical Flowrate Measurement with LIF on a Flight Model Cesium FEED Thruster <i>Packan, D.; Bonnet, J.; Elias, P.Q.; Rocca, S. ONERA (France)</i>	<b>Abstract</b> Formation Flight Static Output Feedback Control: Evaluating the Need of Scheduling for Eccentric Orbit <i>Kron, A.; de Lafontaine, J.; Ulrich, S. NGC Aerospace Ltd (Canada)</i>
10:50	<b>Abstract</b> A $\mu$ N Electric Microthruster for Precision Attitude Control in Formation Flying and Other Demanding Applications <i>Jameson, P. QinetiQ Ltd (United Kingdom)</i>	<b>Abstract</b> Minimum-fuel Deployment of Formation Flying Satellites - An Optimal Control Approach <i>Epenoy, R. CNES (France)</i>
11:15	<b>Abstract</b> Design and Control of Formation Flying Systems for Remote Sensing Missions with Electric Propulsion <i>Cornara, S.; Fernandez, V.; Penin, L.F.; Bastante, J.C. DEIMOS Space (Spain)</i>	<b>Abstract</b> Electro Magnetic Formation Flight for LEO Satellites <i>Sakai, S.1; Kaneda, R.2; Maeda, K.3; Saitoh, T.4; Saito, H.1; Hashimoto, T.1 1ISAS-JAXA (Japan); 2University of Tokyo (Japan); 3NEC Corporation (Japan); 4NEC Aerospace Systems (Japan)</i>
11:40	Coffee Break	
11:55	<b>Abstract</b> A Novel, Rugged and Robust Longitudinal Range Finding Method for Formation Flying Missions <i>McDonald, G.; Lewin, A.; Orchard, D. QinetiQ (United Kingdom)</i>	<b>Abstract</b> TanDEM-X Autonomous Formation Flying System <i>Ardaens, J.S.1; D'Amico, S.1; Ulrich, D.2; Fischer, D.2 1DLR (Germany); 2EADS Astrium (Germany)</i>
12:20	<b>Abstract</b> An Alternative Metrology Concept: Ray Trace Ranging <i>Hagenfeldt, N.M.1; Karlsson, A.1; Sequeira, J.2 1Swedish Space Corporation (Sweden); 2Institute for Systems and Robotics (Portugal)</i>	<b>Abstract</b> New Approaches to Distributed Control of Satellite Formation Flying <i>Massioni, P.; Keviczky, T. Delft University of Technology (Netherlands)</i>
12:45	<b>Abstract</b> Data Handling Solutions Based on RF Metrology Services <i>Alison, B.1; Andreis, O.1; Dellandrea, B.1; Mehlen, C.1; Cazaux, J.M.2 1Thales Alenia Space (France); 2CNES (France)</i>	<b>Abstract</b> Two-Stage Optimal Manoeuvre Planning for Spacecraft Formation Flying Missions <i>Burgon, R.1; Roberts, P.C.E.1; Ankersen, F.2 1Cranfield University (United Kingdom); 2ESTEC (Netherlands)</i>
13:00	Lunch Break	
	<b>Topic 13 - Multiple Spacecraft Missions</b> Newton Room	

	Chairs: Yolanda King (USAF), Ian Gibson (BNSC)
14:05	<b>Abstract</b> Suggested Dual-GRACE Mission Architecture <i>Bender, P.</i> <i>JILA/Univ. of Colorado (United States)</i>
14:30	<b>Abstract</b> Satellite-to-Satellite Laser Tracking for a Next Generation Gravimetric Mission <i>Biondetti, G.1; Cesare, S.1; Mottini, S.1; Parish, M.1; Sechi, G.1; Canuto, E.2; Pisani, M.3; Aguirre, M.4; Leone, B.4; Massotti, L.4; Silvestrin, P.4</i> <i>1Thales Alenia Space Italia (Italy); 2Politecnico di Torino (Italy); 3Istituto Nazionale di Ricerca Metrologica (Italy); 4ESA-ESTEC (Netherlands)</i>
14:55	<b>Abstract</b> LISA - A Mission to Detect and Observe Gravitational Waves <i>Jennrich, O.1; McNamara, P.2; Bender, P.3; LISA Science Team4</i> <i>1ESTEC (Germany); 2ESTEC (United Kingdom); 3JILA (United States); 4No Affiliation (Netherlands)</i>
15:20	<b>Abstract</b> Analysis of Satellite Formations in the Context of Gravity Field Retrieval <i>Encarnacao, J.; Ditmar, P.; Liu, X.</i> <i>Delft University of Technology (Netherlands)</i>
15:45	Coffee Break
	<b>Topic 7 - Orbit Design and Trajectories</b> Newton Room Chairs: Eberhard Gill (TU Delft), Mario Cosmo (ASI)
16:00	<b>Abstract</b> Special Inclinations for Formation Flying <i>Izzo, D.1; Marco, S.2</i> <i>1ESA's Advanced Concepts Team (Netherlands); 2University "La Sapienza" Rome (Italy)</i>
16:25	<b>Abstract</b> Solar Radiation Pressure Effects on very High-Eccentric Formation Flying <i>Fontdecaba Baig, J.1; Gamet, P.2; Métris, G.1; Exertier, P.1</i> <i>1Observatoire de la Cote d'Azur (France); 2CNES (France)</i>
16:50	<b>Abstract</b> Formation Flight Stability in a Gravitational Field <i>Sneeuw, N.1; Sharifi, M.2; Schaub, H.3</i> <i>1Universitaet Stuttgart (Germany); 2University of Tehran (Iran, Islamic Republic of); 3University of Colorado, Boulder (United States)</i>
17:15	<b>Abstract</b> Configuration Angle Determination and Configuration Optimal Design of Distributed SAR Satellite System <i>Zhang, J.X.; Cao, X.B.; Wang, F.; Lan, S.C.; Wang, J.H.</i> <i>Harbin Institute of Technology (China)</i>
17:40	<b>End of the day</b>
19:00	<b>Symposium Dinner Hotel Huis ter Duin</b>

### Day 3 - Friday, 25 April 2008

	<b>Topic 9 - Operations, Mission Planning</b> Newton Room Chairs: Dominique Seguela (CNES), Mitsushige Oda (JAXA)	<b>Topic 10 - Design and Simulation Tools for Involved Fields</b> Einstein Room Chairs: Jesse Leitner (GSFC), Thomas Alan Lovell (USAF)
09:00	<b>Abstract</b> Reconfiguration Maneuver Experiments using the SPHERES Testbed onboard the ISS <i>Aoude, G.1; How, J.1; Miller, D.W.2</i> <i>1Aerospace Controls Laboratory MIT (United States); 2Space Systems Laboratory MIT (United States)</i>	<b>Abstract</b> PERSEE: A Nulling Breadboard Coupled with a Free Flying GNC Simulator <i>Le Duigou, J.M.1; Cassaing, F.2; Houairi, K.2; Jacquiod, S.3; Reess, J.M.4; Henault, F.5; Sorrente, B.2; Barillot, M.6; Coude Du Foresto, V.4; Ollivier, M.3</i> <i>1CNES (France); 2ONERA (France); 3IAS (France); 4LESIA (France); 5OCA (France);</i>

		6TAS (France)
09:25	<b>Abstract</b> Spacecraft Formation Reconfiguration with Collision Avoidance <i>Schlanbusch, R.; Kristiansen, R.; Nicklasson, P.J.</i> <i>Narvik University College (Norway)</i>	<b>Abstract</b> Ground Demonstration of Synchronized Formation Rotations for Precision, Multi-Spacecraft Interferometers <i>Scharf, D.; Hadaegh, F.Y.; Keim, J.; Lawson, P.</i> <i>Jet Propulsion Laboratory (United States)</i>
09:50	<b>Abstract</b> PROBA-3 Ground Segment and Operation Concept <i>Tarabini-Castellani, L.1; Wishart, A.2; Grocott, S.2</i> <i>1GMV Aerospace and Defence S.A. (Spain); 2Astrium Ltd. (United Kingdom)</i>	<b>Abstract</b> A Piecewise Affine Hybrid Systems Approach to Fault Tolerant Satellite Formation Control <i>Grunnet, J.D.; Larsen, J.A.; Bak, T.; Wisniewski, R.</i> <i>Aalborg University (Denmark)</i>
10:15	<b>Abstract</b> Orbit Propagation & Relative Position Techniques for JC2Sat <i>Ng, A.; De Ruiter, A.; Lee, J.</i> <i>Canadian Space Agency (Canada)</i>	<b>Abstract</b> Preliminary Design Optimization of A Microsatellite Formation Flying for Radar Interferometric Applications <i>Gaias, G.V.M.; Lavagna, M.</i> <i>Politecnico di Milano (Italy)</i>
10:40	Coffee Break	
10:55	<b>Abstract</b> Differential Ionospheric Effects in GPS Based Navigation of Formation Flying Spacecraft <i>van Barneveld, P.W.L.1; Montenbruck, O.2; Visser, P.N.A.M.1</i> <i>1Delft University of Technology (Netherlands); 2Deutsches Zentrum für Luft- und Raumfahrt (Germany)</i>	<b>Abstract</b> Design and Analysis Capabilities of Lodato for Formation Flying Libration Point Missions <i>Sanchez Nogales, M.1; Gómez, G.2; Masdemont, J.J.3; Penin, L.F.1</i> <i>1DEIMOS Space (Spain); 2Universitat de Barcelona (Spain); 3Universitat Politècnica de Catalunya (Spain)</i>
11:20	<b>Abstract</b> PROBA-3 Formation Flying Mission Analysis <i>Peters, T.1; Tarabini, L.1; de Negueruela, C.1; Llorente, S.2</i> <i>1GMV (Spain); 2Sener (Spain)</i>	<b>Abstract</b> Selected Afternoon Constellation Transient Plume Impingement Model Results <i>Woronowicz, M.</i> <i>SGT, Inc. (United States)</i>
11:45	<b>Abstract</b> Short Range Pose and Position Determination of Spacecraft Using a $\mu$ -Advanced Stellar Compass <i>Benn, M.; Jørgensen, J.L.</i> <i>DTU - Danish National Space Center (Denmark)</i>	<b>Abstract</b> Offline and Hardware-in-the-loop Validation of the GPS-based Real-Time Navigation System for the PRISMA Formation Flying Mission <i>D'Amico, S.1; De Florio, S.1; Ardaens, J.S.1; Yamamoto, T.2</i> <i>1German Aerospace Center (DLR)/German Space Operations Center (GSOC) (Germany); 2JAXA (Japan)</i>
12:10	<b>Abstract</b> Spacecraft Formation Control: Managing Line-of-Sight Drift Based on the Dynamics of Relative Motion <i>Luquette, R.1; Sanner, R.2</i> <i>1NASA/Goddard Space Flight Center (United States); 2Univ. of Maryland, Dept. of Aerospace Engineering (United States)</i>	<b>Abstract</b> Optimized Relative Motion for Spacecraft Formation <i>Altés, B.1; Cremaschi, F.2; Wiegand, A.2; Erb, S.3; Ortega, G.3</i> <i>1Universidad Politécnica de Madrid (Spain); 2Astos Solutions GmbH (Germany); 3ESA - ESTEC - TEC- ECM (Netherlands)</i>
12:35	<b>Abstract</b> Autonomous Rendezvous Experiments on the Prisma In-Orbit Formation Flying Test Bed <i>Nilsson, F.; Bodin, P.</i> <i>Swedish Space Corporation (Sweden)</i>	<b>Abstract</b> Ground Validation of Formation Flying Techniques and Technologies <i>Borde, J.1; Barillot, P.2; Villien, A.2; Ergenzinger, K.3; Barrena, V.4; Lumb, D.5</i> <i>1Astrium Eads (France); 2Eads Astrium (France); 3Eads Astrium (Germany); 4GMV (Spain); 5ESA/ESTEC (Netherlands)</i>
13:00	Lunch Break	
	<b>Topic 8, part 3 – Guidance, Navigation and Control Systems</b> Newton Room	

	Chairs: Pierre Pelipenko (CNES), Björn Jakobsson (SNSB)
13:55	<b>Abstract</b> The Guidance and Control Algorithms for the CANX-4&5 Formation Flying Demonstration Mission <i>Eyer, J.; Damaren, C.; Zee, R.</i> <i>University of Toronto (Canada)</i>
14:20	<b>Abstract</b> Relative Orbit Initialization Control for Formation Flying Spacecraft with Thrust Direction Maneuverability Constraints <i>Wu, Y.H.; Cao, X.B.; Zheng, P.F.; Xing, Y.J.; Zhang, S.J.</i> <i>Harbin Institute of Technology (China)</i>
14:45	<b>Abstract</b> A Survey of Coupled Control for Spacecraft Formation Flying <i>Wu, Y.H.; Cao, X.B.; Xing, Y.J.; Zheng, P.F.; Zhang, S.J.</i> <i>Harbin Institute of Technology (China)</i>
15:10	Conclusion
15:30	Technical Tour
<b>16:30</b>	<b>End of the day</b>