

## SpaceOps 2004 Daily Program

(as of May 12, 2004 – presenter names, presentation titles, and timeslot assignments are subject to change)

SpaceOps 2004 Daily Program – Monday, May 17, 2004	
Time	
15:00 – 17:00	<b>Opening Ceremony</b> Room: Amphitheatre, Level 1
17:00 – 19:30	<b>Northern Lights Welcome Reception and Opening Ceremony</b> sponsored by COM DEV, EMS Technologies, MacDonald Dettwiler, ABB, RSI, SED Systems, and Neptec Room: Exhibit Hall, Level 4

SpaceOps 2004 Daily Program – Tuesday, May 18, 2004						
Time						
7:55 – 10:00	<b>Plenary Session “Mars Missions Operations”</b> Plenary Chair: Lt. General Tattini Room: Amphitheatre, Level 1  <b>Welcome</b> <i>Dan Showalter, CSA</i>  <b>Introductory Remarks</b> <i>Andy Downen, NASA/JPL</i>  <b>Plenary Chair</b> <i>Lt. General Tattini</i> <i>Deputy Director of JPL, NASA</i>  <b>Operational Challenges and Solutions for a Small Planetary Lander</b> <i>Mark Sims, University of Leicester</i>  <b>Mars Express Challenges and Achievements</b> <i>Mike McKay, ESA</i>  <b>JAXA: NOZOMI Exploration Operations Challenges</b> <i>Prof. Ichiro Nakatani, JAXA</i>  <b>Spirit and Opportunity on Mars</b> <i>Pete Theisinger, NASA/JPL</i>  <b>Wireless Phones for Martian Geologists: How the Mars Exploration Rovers Benefited from an Orbiting Mars Relay Network</b> <i>Chad Edwards, JPL</i>  <b>Surface Exploration Operations Challenges on MER mission</b> <i>Steven Squyres, Cornell University</i>  <b>Closing Remarks</b>  <b>Question Period</b>					
10:00 – 10:30	Break sponsored by Arianespace					
Time/Track	2	2	1	3	4	5
Room	Amphitheatre 1	Amphitheatre 2	International 1	International 2	Cartier 1	Cartier 2
10:30	Session Title: <b>Ground Systems</b>	Session Title: <b>Mission Operations System</b>	Session Title: <b>Cross Support and Interoperability</b>	Session Title: <b>Deep Space Mission Operations</b>	Session Title: <b>Management of Deep Space Missions</b>	Session Title: <b>Systems Considerations in Space Operations</b>
	TU.A1.01 – Track 2	TU.A2.01 – Track 2	TU.I1.01 – Track 1	TU.I2.01 – Track 3	TU.C1.01 – Track 4	TU.C2.01 – Track 5
	<b>ESA/ESOC 35-Meter Deep Space Antennas Front-End Systems</b> <a href="#">D. Akins</a>	<b>Planning and Scheduling of Operations of Small Satellites</b> <a href="#">Z. Zheng'an</a>	<b>Implementation of TT&amp;C Network to Support LEOP of SCISAT-1</b> <a href="#">L. Carpentier</a>	<b>Time-Critical Decision-Making in Spaceflight Operations: The Mars Express Experience</b> <a href="#">J.R. Schulster</a>	<b>Operating the Rosetta, Mars Express and Venus Express Interplanetary Family</b> <a href="#">E. Montagnon</a>	<b>Towards a Formal Approach to Swarm Technology</b> <a href="#">M. Hinchey</a>
11:00	TU.A1.02 – Track 2	TU.A2.02 – Track 2	TU.I1.02 – Track 1	TU.I2.02 – Track 3	TU.C1.02 – Track 4	TU.C2.02 – Track 5
	<b>Future Capabilities for the Deep Space Network</b> <a href="#">J.B. Berner</a>	<b>RADARSAT-2 Planning System</b> <a href="#">L. Morena</a>	<b>Inmarsat's Transfer Orbit and Payload Testing Support Service (TOPS): Evolution and Recent Achievements</b> <a href="#">E. Guariglia</a>	<b>Beagle 2 Mission Operations: Architecture and Approach</b> <a href="#">M.R. Sims</a>	<b>The Cassini Science Planning Process</b> <a href="#">B.G. Paczkowski</a>	<b>Science Opportunity Analyzer - Not Just Another Pretty Face</b> <a href="#">B. Streiffert</a>
11:30	TU.A1.03 – Track 2	TU.A2.03 – Track 2	TU.I1.03 – Track 1	TU.I2.03 – Track 3	TU.C1.03 – Track 4	TU.C2.03 – Track 5
	<b>ESA Telemetry and Telecommand System (TMTCS)</b> <a href="#">Y. Doat</a>	<b>Multi-Mission Operations Schedule Management Integrating Resource Optimization and Operations Automation</b> <a href="#">P. Grandjean</a>	<b>Interoperability Reduces Cost and Risk at Svalbard Satellite Station</b> <a href="#">R. Skatteboe</a>	<b>Increasing Science with Diminishing Resources - Extending the Ulysses Mission to 2008</b> <a href="#">A. McGarry</a>	<b>Multiple Views of Ground Data System Based on Mars Reconnaissance Orbiter GDS</b> <a href="#">M. Carlton</a>	<b>Conceptual study of 'visible operation' in the spacecraft operation - Example of system concept about sharing and its visualization of operational information</b> <a href="#">N. Nomura</a>

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12:00	TU.A1.04 – Track 2 <b>Introducing Automation in Ground Segment Operations</b> <u>E. Montagnon</u>	TU.A2.04 – Track 2 <b>Operational Aspects of an Innovative DVB-S Based Satellite Ranging Tool</b> <u>G. Harles</u>	TU.I1.04 – Track 1 <b>Managing Security and Flexibility in a Global Multi-Mission TT&amp;C Network</b> <u>B. Ohlson</u>	TU.I2.04 – Track 3 <b>Planet Surface Simulation with PANGU</b> <u>S.M. Parkes</u>	TU.C1.04 – Track 4 <b>Deep Space Missions and the (L)-Challenges</b> <u>M. Warhaut</u>	TU.C2.04 – Track 5 <b>NASA's Ground Network Space Communications and Data Transport Strategy</b> <u>W.A. Watson</u>
12:30 – 13:30	Lunch sponsored by Boeing					
13:30	TU.A1.05 – Track 2 <b>Designing the Galileo Ground Segment</b> <u>S. O'Leary</u>	TU.A2.05 – Track 2 <b>Current and Emerging Ground Systems Technologies</b> <u>S.R. Turner</u>	TU.I1.05 – Track 1 <b>WRC-03 Decisions and their Possible Impacts on the Implementation and Operation of Networks of Space Agencies</b> <u>A. Shoamaneh</u>	Session Title: <b>Earth Orbit Mission Operations</b> TU.I2.05 – Track 3 <b>ENVISAT Gyro Monitoring &amp; Early Warning: Operational Assessment of an Advanced Prototype Tool</b> <u>A. Donati</u>	Session Title: <b>Management of Earth Observation Missions</b> TU.C1.05 – Track 4 <b>Scientific Management and Development of Human Resources for Indian Remote Sensing Satellite Operations</b> <u>S.K. Shivakumar</u>	TU.C2.05 – Track 5 <b>NASA GLAST Project Experiences Managing the Risks of Orbital Debris</b> <u>T. Ford</u>
14:00	TU.A1.06 – Track 2 <b>An Innovative Approach to Ground Systems Test and Validation</b> <u>N. Lindman</u>	TU.A2.06 – Track 2 <b>Architectures for Fleet Management</b> <u>B.L. Kizzort</u>	TU.I1.06 – Track 1 <b>Emergency Response to a Major Crisis through the International Charter on Space and Major Disasters - A Practical Scenario</b> <u>R. Saint-Jean</u>	TU.I2.06 – Track 3 <b>SPOT1 Earth Observation Satellite Desorbitation</b> <u>L. Moliner</u>	TU.C1.06 – Track 4 <b>Customizable Mission Planning Tools, EUMETSAT Polar System Mission Planning Facility (EPSMPF)</b> <u>L.G. Gutiérrez</u>	TU.C2.06 – Track 5 <b>Optimal Resource Deployment Through Life-Cycle Design of the Overall Operational System</b> <u>D. Showalter</u>
14:30	TU.A1.07 – Track 2 <b>Using RSVP for Analyzing State and Previous Activities for the Mars Exploration Rovers</b> <u>B.K. Cooper</u>	TU.A2.07 – Track 2 <b>Mission Operation for Reconfigurable Spacecraft</b> <u>S. Chau</u>	TU.I1.07 – Track 1 <b>Existing Facilities Shared through Tracking Station Gateway &amp; Control Center Gateway</b> <u>M. Toqni</u>	TU.I2.07 – Track 3 <b>Experience Using a Multi-Mission/Multi-Satellite Software Tool for Flight Dynamics Operations,</b> <u>M.A. Molina Cobos</u>	TU.C1.07 – Track 4 <b>Results with CLIMAS, a simulation tool for cloud avoidance scheduling in optical remote sensing missions</b> <u>T. Algra</u>	TU.C2.07 – Track 5 <b>Eurockot Lauch Services - Canada's Reliable Partner in Space</b> <u>P. Freeborn</u>
15:00 – 15:30	Break sponsored by Arianespace					
15:30	TU.A1.08 – Track 2 <b>EGOS - ESA Ground Operations Software System</b> <u>N.M. Peccia</u>	TU.A2.08 – Track 2 <b>Design and Architecture of Planning and Sequence System for Mars Exploration Rover (MER) Operations</b> <u>P. Maldaque</u>	TU.I1.08 – Track 1 <b>The Station Network Management Hub</b> <u>M. Pilgram</u>	TU.I2.08 – Track 3 <b>SCISAT-1 ACE Mission Operations Overview</b> <u>D. Kotelko</u>	TU.C1.08 – Track 4 <b>A Controlled Approach to Automated Operations</b> <u>A.T. Monham</u>	Session Title: <b>Ground Systems Infrastructure</b> TU.C2.08 – Track 5 <b>Proposal for an Operational Network Architecture for Satellite Missions</b> <u>L.S. Silva</u>
16:00	TU.A1.09 – Track 2 <b>35-Meter Deep Space Antenna Pointing Calibration System</b> <u>R.P. Plemel</u>	TU.A2.09 – Track 2 <b>The Design and Architecture of the Rover Sequencing and Visualization Program (RSVP)</b> <u>S. Maxwell</u>	TU.I1.09 – Track 1 <b>Ground Systems - The Need for Standardization</b> <u>G. Chaudhri</u>	TU.I2.09 – Track 3 <b>ENVISAT Mission Operations - Flight Experience and Lessons for the Future</b> <u>A. Rudolph</u>	TU.C1.09 – Track 4 <b>ADEOS-II TT&amp;C Operation with Space Network System</b> <u>H. Miyamoto</u>	TU.C2.09 – Track 5 <b>Making Wireless Networks Secure for NASA Mission Critical Applications using Virtual Private Network (VPN) Technology</b> <u>K. Nichols</u>
16:30	TU.A1.10 – Track 2 <b>A Dynamic Multi-Protocol Interface for TT&amp;C Satellite Baseband Processor</b> <u>O. Riberon</u>	TU.A2.10 – Track 2 <b>XTCE: A Standard XML-Schema for Describing Mission Operations Databases</b> <u>B. Kizzort</u>	TU.I1.10 – Track 1 <b>The ECSS Standard on Space Segment Operability</b> <u>M. Schmidt</u>	TU.I2.10 – Track 3 <b>Planning the Commissioning of a Multi-Payload Mission</b> <u>D.P. Frew</u>	TU.C1.10 – Track 4 <b>SITARS: The Future of NOAA's Spacecraft Information Management</b> <u>J. Devine</u>	TU.C2.10 – Track 5 <b>A middleware approach to configuring ground systems</b> <u>P. Melanson</u>
17:00	TU.A1.11 – Track 2 <b>The Mission-Critical Intranet for Multi-Mission Operations at the German Space Operations Center (GSOC)</b> <u>M. Schmidhuber</u>	TU.A2.11 – Track 2 <b>Operational Considerations in the Development of the RADARSAT-2 Order Handling/Mission Planning Functions</b> <u>L.C. Morena</u>	TU.I1.11 – Track 1 <b>On the use of test Standardization in Communication Space Applications</b> <u>A.M. Ambrosio</u>	TU.I2.11 – Track 3 <b>Conjunction Event Predictions for Operational ESA Satellites</b> <u>F. Martinez Fadrique</u>	TU.C1.11 – Track 4 <b>Satellite Information System : Information for Effective Decision Making at the Fingertips of the Satellite Operations Team</b> <u>G. Kroupnik</u>	TU.C2.11 – Track 5 <b>European Technology Harmonisation on Ground System Software</b> <u>N.M. Peccia</u>
17:00 – 19:00	<b>Poster Session and Reception</b> sponsored by Harris Corporation Room: Exhibit Hall, Level 4					
<b>Track 1</b>						
TU.P1.05	<b>Operational Electromagnetic Compatibility Study between Non-Geostationary Earth-Exploration Satellite Networks (Interference/Sharing Analysis),</b> <u>R. Bowen</u>					
<b>Track 2</b>						

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TU.P2.01	<b>ESA Scientific Archives Cross-Project Development</b> , <a href="#">C. Arviset</a>
TU.P2.02	<b>OpCenter, a Multi - Mission, Multi - Satellite Operations Management and Automation Tool</b> , <a href="#">M. Betti</a>
TU.P2.03	<b>ATV-CC M&amp;C: A Component Based MCS Meeting European and International Standards</b> , <a href="#">F. Pedreira</a>
TU.P2.04	<b>Multi Mission Operations: Starting Over or Extending a Legacy System?</b> , <a href="#">L. Connolly</a>
TU.P2.06	<b>Autonomous End-to-End Mission Planning System for TerraSAR-X</b> , <a href="#">A. Braun</a>
TU.P2.07	<b>Evolution of State-of-the Art Multi Vehicle Test System to Mission Operation System by Using Enhanced MMI Technology for Commanding</b> , <a href="#">K. Burmeister</a>
TU.P2.08	<b>The Design and Implementation of an International, Inter-Agency, Multi-Mission Space Flight Operations Network Interface</b> , <a href="#">R. Byrne</a>
TU.P2.10	<b>Routing and Management of ISS Columbus Data at the German Space Operations Center (GSOC)</b> , <a href="#">E. Caraballo Cabrera</a>
TU.P2.14	<b>Information-Driven Control of Product Generation and Reconciliation: Generating Cassini ISS and VIMS Data Products on a Budget</b> , <a href="#">A. Culver</a>
TU.P2.15	<b>Emerging Archiving Technologies for Mission Control Systems</b> , <a href="#">S. Curcio</a>
TU.P2.16	<b>ESA Tracking Management System (EMS)</b> , <a href="#">Y. Doat</a>
TU.P2.17	<b>Virtual Reality for Monitoring Spacecraft Thermal Subsystem. Concept &amp; Prototype.</b> , <a href="#">A. Donati</a>
TU.P2.18	<b>Ground Segment Interfaces Standardization: Lessons Learnt</b> , <a href="#">J.M. Dussauze</a>
TU.P2.19	<b>Advantages of Using XML for NCTRS Configuration</b> , <a href="#">M. Dyck</a>
TU.P2.20	<b>Method for Enhancing the Process of Software Tool Evaluation and Selection: COTS, Heritage, and Custom Software Reviewed</b> , <a href="#">D.J. Equils</a>
TU.P2.22	<b>focusCloseAp: A Cost-Efficient, Generic Product for Collision Risk Assessment for Large Fleets of Geostationary Satellites</b> , <a href="#">G. Garcia</a>
TU.P2.23	<b>Operational Use of SILEX Optical Laser Link between SPOT4 and ARTEMIS Satellites</b> , <a href="#">E. Aubel</a>
TU.P2.25	<b>Venus Express Science Operations Overview</b> , <a href="#">R. Hoofs</a>
TU.P2.26	<b>Applying queuing theory in multiple access method of store and forward satellite</b> , <a href="#">A.A. Jamshidifar</a>
TU.P2.28	<b>Using SCOS-2000 for Galileo</b> , <a href="#">S. O'Leary</a>
TU.P2.29	<b>Linux for PC-based Control Systems</b> , <a href="#">B.L. Kizzort</a>
TU.P2.33	<b>The New Portable Satellite Simulator: A Corner Stone of the ESA Ground Systems Test and Validation Infrastructure</b> , <a href="#">C. Laroque</a>
TU.P2.35	<b>CryoSat/GOCE Missions : A Cost Effective Approach to Mission Operations Preparation and Execution</b> , <a href="#">N. Mardle</a>
TU.P2.38	<b>The International DSS-II/GSC-II Consortium Experience</b> , <a href="#">C. Loomis</a>
TU.P2.40	<b>Exploitation of PDA Technology for Satellite Control and Checkout, Providing Ubiquitous Operations</b> , <a href="#">R.B. Messaros</a>
TU.P2.41	<b>SIMIS: A Multi-Missions Tool for Management of Stations Visibility</b> , <a href="#">J.-M. Soula</a>
TU.P2.42	<b>TerraSAR Space and Ground System - Reuse and Interoperation</b> , <a href="#">H.L. Moeller</a>
TU.P2.44	<b>FocusSuite: Multi-Mission 'Framework' for Satellite Operations</b> , <a href="#">M.A. Molina Cobos</a>
<b>Track 3</b>	
TU.P3.01	<b>On the Fault Diagnosis and Failure Analysis in the Satellite Attitude Control Subsystem</b> , <a href="#">A. Barua</a>
TU.P3.02	<b>An Autonomous and Dependable Formation Flying Technique</b> , <a href="#">S.Tafazoli</a>
TU.P3.04	<b>Dynamic Object Architecture Applied to Satellite Control Systems</b> , <a href="#">A.M. Ambrosio</a>
TU.P3.06	<b>Using ARES to Improve Efficiency in Satellite Operations</b> , <a href="#">D.M. Cruickshank</a>
TU.P3.07	<b>Mapping Soft Computing Techniques with Operations Requirements</b> , <a href="#">A. Donati</a>
TU.P3.08	<b>The Importance and Organisation of the Eurostar in-Orbit Experience Return at EADS-Astrium : Operations, Process and Tools</b> , <a href="#">P. Pessah</a>
TU.P3.09	<b>XMM-Newton RGS Detector Performance Tools</b> , <a href="#">C. Gabriel</a>
TU.P3.10	<b>EDOS Rate Buffering Service: Responding to User's Need for Faster Data Deliveries</b> , <a href="#">C.A. Gomez-Rosa</a>
TU.P3.14	<b>Re-Architecting the HST Data Management Systems</b> , <a href="#">E. Huizinga</a>
TU.P3.17	<b>Evolution of Telesat Canada Transfer Orbit Services</b> , <a href="#">H. Kneve</a>

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TU.P3.18	<b>External Occulter Operations Requirements</b> , <a href="#">M. Kochte</a>
TU.P3.19	<b>Archiving Data from Multiple Missions - An Exercise in Flexibility and Changing Requirements</b> , <a href="#">K. Levay</a>
TU.P3.21	<b>CSA Payload Mission Support Center, Operational Status</b> , <a href="#">M. Mailloux</a>
<b>Track 5</b>	
TU.P5.06	<b>The Training and Certification Programs</b> , <a href="#">N. Nomura</a>
TU.P5.08	<b>System Testing by Flight Operators - the Rosetta Experience</b> , <a href="#">E. Montagnon</a>
TU.P5.09	<b>Science Opportunity Analyzer - Not Just Another Pretty Face</b> , <a href="#">B. Streiffert</a>

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SpaceOps 2004 Daily Program – Wednesday, May 19, 2004						
Time						
8:25 – 10:00	<b>Plenary Session “Space Operation Challenges of Today”</b> Plenary Chair: Dr. Shabeer Ahmed Room: Amphitheatre, Level 1  <hr/> <b>Welcome</b> <i>Dan Showalter, CSA</i>  <b>Introductory Remarks</b> <i>Dr. Shabeer Ahmed</i> Director of DFL, CSA  <b>NASA Space Operations: Fulfilling Mission Needs over the next Two Decades</b> <i>Robert Spearing, NASA</i>  <b>Government/Industry Partnerships: The Promise and The Pain</b> <i>Rich Schell, Lockheed Martin</i>  <b>EUMETSAT's GEO and LEO Experiences</b> <i>Sean Burns, EUMETSAT</i>  <b>Experiences and Challenges of the CNES Space Operations</b> <i>Geneviève Campan, CNES</i>  <b>Present Day Challenges of Satellite Operators</b> <i>Roger Tinley, Telesat Canada</i>  <b>Closing Remarks</b>  <b>Question Period</b>					
10:00 – 10:30	Break sponsored by Arianespace					
Time/Track	2	2	1	3	4	5
Room	Amphitheatre 1	Amphitheatre 2	International 1	International 2	Cartier 1	Cartier 2
10:30	Session Title: <b>Ground Systems</b>  WE.A1.01 – Track 2  <b>First Operational Experience with ESA's Deep Space Ground Station at New Norcia (Western Australia)</b> <a href="#">K.J. Schulz</a>	Session Title: <b>Mission Operations System</b>  WE.A2.01 – Track 2  <b>Multimodal and 3D Graphic Man Machine Interfaces to Improve Operations</b> <a href="#">P. Palanque</a>	Session Title: <b>Standardization</b>  WE.I1.01 – Track 1  <b>Proposed Evolution of CCSDS Protocols - Strategy and Technology</b> <a href="#">R.D. Carper</a>	Session Title: <b>Constellation Operations</b>  WE.I2.01 – Track 3  <b>Improving Operational Effectiveness in the Management of the Iridium Satellite Constellation</b> <a href="#">R.W. Sheppherd</a>	Session Title: <b>Management of Knowledge</b>  WE.C1.01 – Track 4  <b>Managing Mission Knowledge</b> <a href="#">J. Lewis</a>	Session Title: <b>Ground Systems Infrastructure</b>  WE.C2.01 – Track 5  <b>Terrain Modelling for Immersive Visualization for the Mars Exploration Rovers</b> <a href="#">J. Wright</a>
11:00	WE.A1.02 – Track 2  <b>MTSAT Image Data Acquisition and Control System</b> <a href="#">S. O'Leary</a>	WE.A2.02 – Track 2  <b>Galileo: Mission Planning</b> <a href="#">S. Torbino</a>	WE.I1.02 – Track 1  <b>CCSDS MOIMS AREA: Standardisation Over the Next Decade</b> <a href="#">N.M. Peccia</a>	WE.I2.02 – Track 3  <b>Mission Operations System Design and Adaptations for the Twin-Satellite Mission GRACE</b> <a href="#">D. Presti</a>	WE.C1.02 – Track 4  <b>Herschel-Planck Plans to Reduce Mission Costs through Effective Lifecycle Management of Operations Knowledge</b> <a href="#">A.T. Monham</a>	WE.C2.02 – Track 5  <b>Sequence Rehearsal and Validation for Surface Operations of the Mars Exploration Rovers</b> <a href="#">J. Yen</a>
11:30	Session Title: <b>Deep Space Mission Operations</b>  WE.A1.03 – Track 3  <b>Autonomous Entry, Descent and Landing - Next-Generation Technologies for Planetary Missions</b> <a href="#">J. Gebbie</a>	WE.A2.03 – Track 2  <b>Packaging Data Products using Data Grid Middleware for Deep Space Mission Systems</b> <a href="#">C.A. Mattmann</a>	WE.I1.03 – Track 1  <b>CCSDS Spacecraft Monitoring and Control</b> <a href="#">M. Merri</a>	WE.I2.03 – Track 3  <b>CLUSTER Constellation Change Manoeuvres - Management and Operations</b> <a href="#">J. Volpp</a>	WE.C1.03 – Track 4  <b>Integrated Concepts for a Global Enterprise - A Cost-Effective, Flexible and Rewarding Way to Success in Multi-Mission Operations</b> <a href="#">P. Muehnbauer</a>	WE.C2.03 – Track 5  <b>IASI operational software</b> <a href="#">R. Moreno</a>
12:00	WE.A1.04 – Track 3  <b>Ulysses Attitude and Orbit Operations: 13+ Years of International Cooperation</b> <a href="#">C.K. Chan</a>	WE.A2.04 – Track 2  <b>Ground Control Concept for On-Orbit Robotic Maintenance Operations on the International Space Station</b> <a href="#">N. Dhanji</a>	WE.I1.04 – Track 1  <b>The CCSDS Spacecraft Onboard Interface Services Standardisation Activity</b> <a href="#">C. Plummer</a>	WE.I2.04 – Track 3  <b>Orbit Management for Geostationary Satellites during Passivation Operations</b> <a href="#">C. Frémeaux</a>	Session Title: <b>Management of Cost</b>  WE.C1.04 – Track 4  <b>The Operations Development Challenge - A Balance of Cost and Risk</b> <a href="#">A. Hillman</a>	Session Title: <b>Earth Observation</b>  WE.C2.04 – Track 5  <b>Flying The Earth Observing Constellations</b> <a href="#">A.C. Kelly</a>
12:30 – 13:30	Lunch sponsored by International Launch Services					
13:30	WE.A1.05 – Track 3  <b>Doing Development Right: Lessons Learned from the Development of the Cassini Saturn Mission Operations System</b> <a href="#">J. Gunn</a>	Session Title: <b>Monitor &amp; Control Systems</b>  WE.A2.05 – Track 2  <b>Learned Lessons from Software Development to Satellite Control Using Distributed Object Technology</b> <a href="#">M.G.V. Ferreira</a>	WE.I1.05 – Track 1  <b>The Producer-Archive Interface Methodology Abstract Standard (PAIMAS)</b> <a href="#">J.C. Garrett</a>	Session Title: <b>Earth Orbit Mission Operations</b>  WE.I2.05 – Track 3  <b>RADARSAT-1 Mission Management Office (MMO) Operation</b> <a href="#">S.K. Srivastava</a>	WE.C1.05 – Track 4  <b>Operations Cost Modeling</b> <a href="#">D. Comi</a>	WE.C2.05 – Track 5  <b>Fire Detection by Satellite - A Global Challenge</b> <a href="#">G. Billig</a>

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14:00	WE.A1.06 – Track 3 <b>A New Automated and Intelligent Operation Challenge for the Technology Demonstrator 'Hayabusa' (MUSES-C)</b> <a href="#">J. Kawaguchi</a>	WE.A2.06 – Track 2 <b>Immersive Visualization for Navigation and Control of the Mars Exploration Rovers</b> <a href="#">F. Hartman</a>	WE.I1.06 – Track 1 <b>A Standard for Flight Dynamics Interfaces</b> <a href="#">F. Dreger</a>	WE.I2.06 – Track 3 <b>On-Orbit Stationkeeping with Ion Thrusters Telesat Canada's BSS702 Experience</b> <a href="#">T. Douglas</a>	WE.C1.06 – Track 4 <b>An innovative Information System for Life Cycle Cost Optimization</b> <a href="#">G. F. De Luca</a>	WE.C2.06 – Track 5 <b>Contribution of RADARSAT-1 to the Hurricane Watch Program</b> <a href="#">S. Iris</a>
14:30	WE.A1.07 – Track 3 <b>Critical Monitoring of the Cassini Saturn Orbit Insertion Maneuver</b> <a href="#">S.W. Asmar</a>	WE.A2.07 – Track 2 <b>A Web-based Configuration Management System for the Columbus Control Center Using the Object-Oriented ENABLER Database from Softlab Company</b> <a href="#">G. Hibschi</a>	WE.I1.07 – Track 1 <b>Fostering Cooperation through Technology Mapping</b> <a href="#">A. Prévot</a>	WE.I2.07 – Track 3 <b>Deployment of EUTELSAT's New Generation Constellation Control System (Neo)</b> <a href="#">J.S. Noquero</a>	WE.C1.07 – Track 4 <b>Unassigned</b>	WE.C2.07 – Track 5 <b>Urgent Operations of ALOS for Disaster Watching</b> <a href="#">D. Suzuki</a>
15:00 – 15:30	Break sponsored by Arianespace					
15:30	WE.A1.08 – Track 3 <b>Cassini Remote Terminal Interface Units as Part of Instrument Test Bed Operations During the Tour of Saturn</b> <a href="#">M.A. Sarrel</a>	WE.A2.08 – Track 2 <b>Automated Ground Control System Operations for RADARSAT-2</b> <a href="#">K. Davies</a>	WE.I1.08 – Track 1 <b>Integrating File Transfer with CFDP into the Operational Environment</b> <a href="#">S. Reid</a>	Session Title: <b>Mission Planning and Control</b> WE.I2.08 – Track 3 <b>A New Model for Multi-Mission Geostationary Satellite Systems</b> <a href="#">P. Takats</a>	WE.C1.08 – Track 4 <b>Parametric Cost Analysis of NASA's DSN Array</b> <a href="#">J. Statman</a>	WE.C2.08 – Track 5 <b>Polar Epsilon: Joint Space-Based Wide Area Surveillance and Support Project</b> <a href="#">R. Quinn</a>
16:00	WE.A1.09 – Track 3 <b>Operations Automation for the Rosetta Mission</b> <a href="#">A. Ercolani</a>	WE.A2.09 – Track 2 <b>Myriade, a Multi-Mission, Micro-Satellite Operational Control Center</b> <a href="#">F. Pedreira</a>	WE.I1.09 – Track 1 <b>Development of JAXA's SLE Gateway</b> <a href="#">R. Suzuki</a>	WE.I2.09 – Track 3 <b>RADARSAT-1 Extended Background Mission Data Acquisition Planning</b> <a href="#">A. Mahmood</a>	WE.C1.09 – Track 4 <b>Cost Effective Long-Term Galileo Operations</b> <a href="#">D. Greer</a>	Session Title: <b>Communications and Navigation</b> WE.C2.09 – Track 5 <b>EGNOS Service Management Operations Aligned with User Domain Operational Needs</b> <a href="#">D.C. Hill</a>
16:30	WE.A1.10 – Track 3 <b>Rosetta - Evaluation of Sun Interference during LEOP</b> <a href="#">A. Gesmundo</a>	WE.A2.10 – Track 2 <b>Towards a Reusable Micro Control Center for Micro Satellites</b> <a href="#">U. Mittag</a>	WE.I1.10 – Track 1 <b>Space Link Extension: A Report from the Front Lines</b> <a href="#">M.J. Stoloff</a>	WE.I2.10 – Track 3 <b>Automating Spacecraft Maneuver Planning and Execution</b> <a href="#">G.K. Johnson</a>	Session Title: <b>Management of Multi-Satellite Ground Systems</b> WE.C1.10 – Track 4 <b>Multi-Satellite Mission Planning for Integrated Space and Ground System</b> <a href="#">Y. Chen</a>	WE.C2.10 – Track 5 <b>Galileo: Where Do We Stand with the MCS?</b> <a href="#">S. Toribio</a>
17:00	WE.A1.11 – Track 3 <b>Innovative Methods in Spacecraft Attitude Recovery from Loss of Earth Lock Condition</b> <a href="#">H.P. Shenoy</a>	WE.A2.11 – Track 2 <b>SATMON - A Generic User Interface for Satellite Control</b> <a href="#">C. Peat</a>	WE.I1.11 – Track 1 <b>Network Security and SLE / IP-Internetworking for Inter-Agency Cooperation</b> <a href="#">M. Bertelsmeier</a>	WE.I2.11 – Track 3 <b>Use of Reusable Software for Cost Effective Development of Mission Control System</b> <a href="#">A. Ercolani</a>	WE.C1.11 – Track 4 <b>Intelsat's Experience in Enhancing Operational Effectiveness of Ground Systems</b> <a href="#">R. Rangachar</a>	WE.C2.11 – Track 5 <b>GALILEO Constellation Control System</b> <a href="#">R.S. Thompson</a>
17:00 – 19:00	Poster Session and Reception sponsored by EADS SPACE Room: Exhibit Hall, Level 4					
<b>Track 1</b>						
WE.P1.04	<b>An Amazon.com for EO Data ?, <a href="#">D. Greer</a></b>					
<b>Track 2</b>						
WE.P2.03	<b>MAPS an Highly Graphical Software Tool for Multi-Mission Analysis and Planning Support for Earth Observation Satellites, <a href="#">P. Mougnaud</a></b>					
WE.P2.05	<b>Raytheon Enterprise Management System Reference Architecture, <a href="#">S. Norton</a></b>					
WE.P2.08	<b>Lessons Learned from Using Emerging Open Technologies in Multi-Mission Operational Systems, <a href="#">F. Pedreira</a></b>					
WE.P2.10	<b>The Command and Control &amp; FDIR analysis in the ISS world, <a href="#">S. Masiello</a></b>					
WE.P2.11	<b>What on-Board Autonomy Means for Ground Operations: An Autonomy Demonstrator Conceptual Design, <a href="#">P. Grandjean</a></b>					
WE.P2.12	<b>Ground Products Standardization, <a href="#">P. Peters</a></b>					
WE.P2.14	<b>ADAR, A Study for an Advanced Data Archive for Earth Observation, <a href="#">G.M. Pinna</a></b>					
WE.P2.15	<b>The Node 2 Operations Handbook: A Selfstanding and Validated Approach to Capture Design and Operations Data, <a href="#">A. Piras</a></b>					
WE.P2.17	<b>Automatic Code Generation Starting from Data Description, <a href="#">E. Poupart</a></b>					

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(as of May 12, 2004 – presenter names, presentation titles, and timeslot assignments are subject to change)

WE.P2.18	<b>3D Visualisation in a GEO Control Centre</b> , <a href="#">C. Frémeaux</a>
WE.P2.23	<b>A Commercial Implementation of IP over Satellite</b> , <a href="#">B. Safigan</a>
WE.P2.27	<b>Hybrid (Ion and Chemical) GEO Stationkeeping Maneuver Planning Software</b> , <a href="#">J.K. Skipper</a>
WE.P2.31	<b>Optimized Multi-Satellite Operations Scheduling Using Genetic Algorithms</b> , <a href="#">S.K. Shivakumar</a>
WE.P2.33	<b>An Italian Ground System for Satellite Constellation In-Orbit Control</b> , <a href="#">G. Tarchini</a>
WE.P2.34	<b>APEX: Use of JAVA and XML in Automated Procedure Execution</b> , <a href="#">R.S. Thompson</a>
WE.P2.36	<b>Establishing an Adaptive Configurable Distributed Software Architecture Applied to Satellite Control Missions</b> , <a href="#">A.C. Thomé</a>
WE.P2.39	<b>Operations Support in a Virtual Control Center Environment</b> , <a href="#">S. Turco</a>
WE.P2.40	<b>RADARSAT-2 Software Simulator: Benefits of an Early Delivery</b> , <a href="#">J. Lewis</a>
WE.P2.41	<b>Results from Preliminary NASA/GSFC Ka-Band High Data Rate Demonstrations for Near-Earth Communications</b> , <a href="#">M. Burns</a>
WE.P2.43	<b>Better Software Reuse by State of the Art Design Approaches</b> , <a href="#">H. Wulf</a>
WE.P2.44	<b>A Planning System for Payload and System Planning of the Columbus Module on ISS</b> , <a href="#">G.A. Zoeschinger</a>
<b>Track 3</b>	
WE.P3.01	<b>Anik E Spacecraft Life Extension</b> , <a href="#">T.A. Martin</a>
WE.P3.05	<b>The XMM-Newton SEU and Ping-Pong Filters: Enhanced S/C Operations Performance</b> , <a href="#">M. Schmidt</a>
WE.P3.06	<b>SAC C - Sharing the Mission Experience</b> , <a href="#">F.L. Pasquevich</a>
WE.P3.10	<b>Simulator Development: The Flexible Approach Applied to Operational Spacecraft Simulators</b> , <a href="#">V. Reggestad</a>
WE.P3.11	<b>Using the Multi-Mission CLEO Flight Dynamics Centre for Decommissioning the SPOT-1 Satellite</b> , <a href="#">C. Salcedo</a>
WE.P3.13	<b>Telescience Resource Kit Software Capabilities and Future Enhancements</b> , <a href="#">D. Sellers</a>
WE.P3.15	<b>CCSDS Application Profiles for the Mars Environment</b> , <a href="#">G.J. Kazz</a>
WE.P3.16	<b>Operating the Autonomous Sciencecraft Experiment</b> , <a href="#">R. Sherwood</a>
WE.P3.17	<b>RADARSAT-1 Safe Hold Mode Analysis</b> , <a href="#">Y.V. Kim</a>
WE.P3.19	<b>Video Distribution: Concepts and Comparisons for Control Center Use</b> , <a href="#">T. Tomlinson</a>
WE.P3.20	<b>RADARSAT-1 Mission Planning System Evolution</b> , <a href="#">B. Banik</a>
<b>Track 4</b>	
WE.P4.01	<b>In Orbit Gyros Health Following on SPOT/HOlios Satellites</b> , <a href="#">E. Aubeil</a>
<b>Track 5</b>	
WE.P5.02	<b>APT, What it has Enabled Us to Do</b> , <a href="#">B.S. Blacker</a>
WE.P5.03	<b>Data Processing Pipeline With Transaction-Oriented Data Sharing</b> , <a href="#">T. Huang</a>
WE.P5.05	<b>Compact Software Tool 'QuickTrace' for Spacecraft HK Telemetry Analysis</b> , <a href="#">H. Hase</a>
WE.P5.07	<b>The Spacecraft Onboard Bus for Ad-hoc Asynchronous Data Transfer</b> , <a href="#">C. Plummer</a>
WE.P5.08	<b>Distributed Mission Monitoring &amp; Operations</b> , <a href="#">S. Reid</a>

## SpaceOps 2004 Daily Program

(as of May 12, 2004 – presenter names, presentation titles, and timeslot assignments are subject to change)

SpaceOps 2004 Daily Program – Thursday, May 20, 2004						
Time						
8:25 – 10:00	<p><b>Plenary Session “International Space Station Operations”</b>  <i>Plenary Chair: Benoît Marcotte</i>  <i>Room: Amphitheatre, Level 1</i></p> <hr/> <p><b>Welcome</b>  <i>Dan Showalter, CSA</i></p> <p><b>Introductory Remarks</b>  <i>Benoît Marcotte, Director of Operations Engineering, CSA</i></p> <p><b>The Program Manager’s Perspective</b>  and  <b>RSA ISS Operations Challenges and Planning</b>  <i>Bill Gerstenmaier, NASA</i></p> <p><b>NASA ISS Operations Challenges and Planning</b>  <i>Susan Creasy, NASA</i></p> <p><b>CSA ISS Operations Challenges and Planning</b>  <i>Chris Lorenz, CSA</i></p> <p><b>Operating &amp; Maintaining the ESA Elements on the International Space Station</b>  <i>Speaker TBD</i></p> <p><b>Operations of Japanese Elements of ISS</b>  <i>Chikara Harada, JAXA</i></p> <p><b>Ground Information Technology (IT) Applied to the ISS Technical Challenges</b>  <i>Mike Kearney, NASA/MSFC</i></p> <p><b>Question Period</b></p> <p><b>Closing Remarks</b></p>					
10:00 – 10:30	Break sponsored by Arianespace					
Time/Track	2	2	1	3	4	5
Room	Amphitheatre 1	Amphitheatre 2	International 1	International 2	Cartier 1	Cartier 2
10:30	<p>Session Title: <b>Enabling Operations</b></p> <p>TH.A1.01 – Track 3</p> <p><b>The JPL Deep Space Network Simplification Project (NSP): Lessons Learned</b>  <i>S. Kurtik</i></p>	<p>Session Title: <b>Monitor &amp; Control Systems</b></p> <p>TH.A2.01 – Track 2</p> <p><b>Advanced Components for Operations GMV/Es Multi-Mission Derived Parameters Tool (DPTOOL)</b>  <i>J. Noquero</i></p>	<p>Session Title: <b>Missions: Applications, Case Studies and Reports</b></p> <p>TH.I1.01 – Track 1</p> <p><b>An Asset Contention Period: DSN’s ‘03/’04 Challenge</b>  <i>S.F. Silverman</i></p>	<p>Session Title: <b>International Space Station Operations</b></p> <p>TH.I2.01 – Track 3</p> <p><b>Improved 7-DOF Control of ISS Robotic Manipulators</b>  <i>V. Abbasi</i></p>	<p>Session Title: <b>Management of Ground Software Systems</b></p> <p>TH.C1.01 – Track 4</p> <p><b>Integrating Configuration Management Processes and Tools into Legacy Systems</b>  <i>T.M. Cooper</i></p>	<p>Session Title: <b>Communications and Navigation</b></p> <p>TH.C2.01 – Track 5</p> <p><b>HELLAS SAT: The birth of a new satellite operator</b>  <i>H. Iordanou</i></p>
11:00	<p>TH.A1.02 – Track 3</p> <p><b>Satellite Reorientation Maneuvers by Momentum Transfer (a.k.a. Reorienting without Using Thrusters, Torquers or Nutation Dampers)</b>  <i>M. Wuhr</i></p>	<p>TH.A2.02 – Track 2</p> <p><b>New Flight Dynamics System (VFDS) in NASDA</b>  <i>Y. Taromaru</i></p>	<p>TH.I1.02 – Track 1</p> <p><b>Legal Aspects of International Technology Transfer in Support of International Space Missions</b>  <i>J.H. Matsuura</i></p>	<p>TH.I2.02 – Track 3</p> <p><b>Multi-Mission Operations with Space-DRUMS</b>  <i>M. Miron</i></p>	<p>TH.C1.02 – Track 4</p> <p><b>Solving the Long-term Support Problem - Migrating Operational Mission Control Systems to SCOS-2000</b>  <i>S. O’Leary</i></p>	<p>TH.C2.02 – Track 5</p> <p><b>Satellite Services for Remote and Underserved Regions</b>  <i>A. Lakhani</i></p>
11:30	<p>TH.A1.03 – Track 3</p> <p><b>Capturing DSN Software Error Messages to Improve Software, Operations and Data Delivery</b>  <i>M. Chatillon</i></p>	<p>TH.A2.03 – Track 2</p> <p><b>Internet based Real-Time Telemetry System for the micro-satellite in Low Earth Orbit</b>  <i>C.W. Park</i></p>	<p>TH.I1.03 – Track 1</p> <p><b>Promoting Operations Compatibility between Participating Organizations in the Automated Transfer Vehicle Program</b>  <i>A.T. Monham</i></p>	<p>TH.I2.03 – Track 3</p> <p><b>Columbus Operational System Validation Concepts</b>  <i>K.L. Müller</i></p>	<p>TH.C1.03 – Track 4</p> <p><b>Mobile Servicing System Software Build Planning Process</b>  <i>T. Bell</i></p>	<p>TH.C2.03 – Track 5</p> <p><b>REMSAT II - Integrating Satellite Navigation, Earth Observation and Communication Technologies for Emergency Management</b>  <i>M. Torn</i></p>
12:00	<p>TH.A1.04 – Track 3</p> <p><b>Ensuring Readiness for Europe’s First Mars Mission - Team Building through Simulations</b>  <i>Z. Mounzer</i></p>	<p>TH.A2.04 – Track 2</p> <p><b>The Design of the SCOS-2000 Multi-Spacecraft Version</b>  <i>G. Montroni</i></p>	<p>TH.I1.04 – Track 1</p> <p><b>Toward Comprehensive, Coordinated, and Sustained Global Observations</b>  <i>H. Wood</i></p>	<p>TH.I2.04 – Track 3</p> <p><b>Telescience and Space Missions Operations at the Belgian User Support and Operation Centre</b>  <i>J. Vanhaverbeke</i></p>	<p>TH.C1.04 – Track 4</p> <p><b>Effective Management of Information Technology for Multi-Mission Organizations</b>  <i>G. Miller</i></p>	<p>TH.C2.04 – Track 5</p> <p><b>A New Approach toward Establishing Acceptable Levels of Interference from the Fixed Satellite Service into the Fixed Service in Bands above 17 GHz</b>  <i>G. Shewan</i></p>
12:30	Lunch sponsored by SkyTerra Communications					

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(as of May 12, 2004 – presenter names, presentation titles, and timeslot assignments are subject to change)

13:30	<p>Session Title: <b>On-Board Systems and Automation</b></p>	TH.A2.05 – Track 2	TH.I1.05 – Track 1	Session Title: <b>Enabling Operations</b>	Session Title: <b>Management of International Space Station</b>	TH.C2.05 – Track 5
	<p>TH.A1.05 – Track 2</p> <p><b>Architectural Options for a Future Deep Space Optical Communications Network</b> <u>P. Liebrecht</u></p>	<p><b>Remote Operations and Ground Control Centers</b> <u>K. Lankford</u></p>	<p><b>Merging Ground Network Systems in Japan</b> <u>M. Ohta</u></p>	<p>TH.I2.05 – Track 3</p> <p><b>RADARSAT-1 Image Quality Evolution to the Extended Mission</b> <u>S. Côté</u></p>	<p>TH.C1.05 – Track 4</p> <p><b>ATV on its Way to ISS</b> <u>L. Baize</u></p>	<p><b>Distributed Operations as Applied in a Large Multi-Instrument Space Mission: Lessons Learned from the Cassini-Huygens Program</b> <u>L. Cheng</u></p>
14:00	<p>TH.A1.06 – Track 2</p> <p><b>The Design and Implementation of an International, Inter-Agency, Multi-Mission Space Flight Operations Network Interface</b> <u>R. Byrne</u></p>	<p>TH.A2.06 – Track 2</p> <p><b>The PLUTO Operations Procedure Language Standard and its Use for RADARAT-2 Mission Operations</b> <u>M.A. Seymour</u></p>	<p>TH.I1.06 – Track 1</p> <p><b>Data Handling of the Rosetta and Mars Express Projects from Spacecraft Packets to the Scientific Archive</b> <u>F. Delhaise</u></p>	<p>TH.I2.06 – Track 3</p> <p><b>The Quality Assurance Process in a Scientific Mission</b> <u>M. Merri</u></p>	<p>TH.C1.06 – Track 4</p> <p><b>Crew Training for the first ATV Mission</b> <u>P. Eichler</u></p>	<p>TH.C2.06 – Track 5</p> <p><b>An Efficient Operations Users Interface for Scientific Missions</b> <u>E. Montagnon</u></p>
14:30	<p>TH.A1.07 – Track 2</p> <p><b>Hierarchical FDIR Concepts in S/C Systems</b> <u>R. Gessner</u></p>	<p>TH.A2.07 – Track 2</p> <p><b>Decision Support System for LEO Satellite Operations</b> <u>S.K. Shivakumar</u></p>	<p>TH.I1.07 – Track 1</p> <p><b>Mars Reconnaissance Orbiter (MRO) - From Downlink to Archive</b> <u>B. McGuffie</u></p>	<p>TH.I2.07 – Track 3</p> <p><b>The New and Old Challenge: Flight Software Maintenance</b> <u>N.C. Head</u></p>	<p>TH.C1.07 – Track 4</p> <p><b>COLUMBUS 1 E Mission: ESA and NASA Crew Training for Activation &amp; Check-Out</b> <u>A. Bade</u></p>	<p>Session Title: <b>Science Missions</b></p>
						<p>TH.C2.07 – Track 5</p> <p><b>Distributed Ground Systems for a Large Multi-Instrument Space Mission: Lessons Learned from the Cassini Huygens Program</b> <u>B. Larsen</u></p>
15:00 – 15:30	Break sponsored by Arianespace					
15:30	<p>TH.A1.08 – Track 2</p> <p><b>Achieving Autonomous Operations for the GLAST Mission</b> <u>M. Rackley</u></p>	<p>Session Title: <b>Modeling &amp; Simulations</b></p>	<p>TH.I1.08 – Track 1</p> <p><b>Operations Challenges for a Galileo In-orbit Demonstrator</b> <u>W. Paeffgen</u></p>	<p>Session Title: <b>Mission Planning</b></p>	<p>TH.C1.08 – Track 4</p> <p><b>Industrialization of Operations for the European Contribution to the International Space Station - ISS</b> <u>H. Michaelis</u></p>	<p>TH.C2.08 – Track 5</p> <p><b>The Role of Science and Operations in the James Webb Space Telescope Mission Development</b> <u>D. Hunter</u></p>
		<p>TH.A2.08 – Track 2</p> <p><b>Discreet Information Access Control Model for Flight Operations</b> <u>D.B. Childs</u></p>		<p>TH.I2.08 – Track 3</p> <p><b>Space Weather and Mission Control: A Roadmap to an Operational Multi-Mission Decision Support System</b> <u>A. Donati</u></p>		
16:00	<p>TH.A1.09 – Track 2</p> <p><b>Augmenting Space Mission Autonomy Using Goal Decomposition</b> <u>L. Hartman</u></p>	<p>TH.A2.09 – Track 2</p> <p><b>XASTRO: A Formalised Framework for the Modelling of Space Systems</b> <u>N. Lindman</u></p>	<p>TH.I1.09 – Track 1</p> <p><b>Columbus Payload Integration and Operations; A Multi-Lateral Process Implementation</b> <u>G. Schmidt</u></p>	<p>TH.I2.09 – Track 3</p> <p><b>Data Mining for Space Applications</b> <u>K.Z. Haigh</u></p>	<p>Session Title: <b>Management of Cooperation</b></p>	<p>TH.C2.09 – Track 5</p> <p><b>Twelve Instruments, One Goal: Archive Usable Science Data for the Cassini Mission to Saturn</b> <u>D. Conner</u></p>
					<p>TH.C1.09 – Track 4</p> <p><b>The Network of Centres Flight Operations Coordination and Design Tool</b> <u>S. Cornara</u></p>	
16:30	<p>TH.A1.10 – Track 2</p> <p><b>OBSM Operations Automation through the Use of On-board Control Procedures</b> <u>J. Morales</u></p>	<p>TH.A2.10 – Track 2</p> <p><b>Tools for Describing the Reference Architecture for Space Data Systems</b> <u>P. Shames</u></p>	<p>TH.I1.10 – Track 1</p> <p><b>Alternative Access to Mission Control Center (MCC) Services: A Joint Effort between NASA Centers</b> <u>B.E. Snook</u></p>	<p>TH.I2.10 – Track 3</p> <p><b>Servicing of the Hubble Space Telescope</b> <u>D.R. Soderblom</u></p>	<p>TH.C1.10 – Track 4</p> <p><b>Generating Benefits in the ESOC GSOC Cooperation</b> <u>N. Hanowski</u></p>	<p>TH.C2.10 – Track 5</p> <p><b>An Architecture to Enable Future Sensor Webs</b> <u>D. Mandl</u></p>
					<p>TH.C1.11 – Track 4</p> <p><b>Unassigned</b></p>	
17:00	<p>TH.A1.11 – Track 2</p> <p><b>Autofocus : A solution for Flight Dynamics Operations Automation</b> <u>M.A. Molina Cobos</u></p>	<p>TH.A2.11 – Track 2</p> <p><b>MDA for Ground Segment Software: Two Concrete Examples</b> <u>F. Jocteur Monrozier</u></p>	<p>TH.I1.11 – Track 1</p> <p><b>A Strategic Mission Planning Concept for TerraSar-X (conflict avoidance instead of conflict resolution)</b> <u>M. Wickler</u></p>	<p>TH.I2.11 – Track 3</p> <p><b>Experience Gained with a Mission Planning System for a Mission to Mars</b> <u>E. Rabenau</u></p>	<p>TH.C1.11 – Track 4</p> <p><b>Unassigned</b></p>	<p>TH.C2.11 – Track 5</p> <p><b>An Architecture for NASA Space Network IP Services</b> <u>D.J. Israel</u></p>
17:30						
18:30	<p><b>Gala Dinner</b> sponsored by Telesat Canada <i>Windsor Station</i></p>					

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SpaceOps 2004 Daily Program – Friday 21 May 2004						
Time						
7:30 – 8:30	<b>CEO Round Table Breakfast</b> sponsored by Alcatel <i>Room: Exhibit Hall, Level 4</i>					
8:30 – 10:00	<b>CEO Round Table</b> <i>Room: Exhibit Hall, Level 4</i> <hr/> <p><b>Leader</b>  <i>Laurier J. Boisvert</i>  <i>President and CEO, Telesat</i></p> <p><b>Dr. Marc Garneau</b>  <b>Moderator</b>  <i>President, Canadian Space Agency</i></p> <p><b>Dave Ryan</b>  <i>President, Boeing Satellite Systems, Inc.</i></p> <p><b>Antoine Bouvier</b>  <i>Chairman &amp; CEO, EADS Astrium</i></p> <p><b>Hubert de Pesquidoux</b>  <i>Chief Executive Officer, Alcatel Canada</i></p> <p><b>Jean-Yves Le Gall</b>  <i>Chief Executive Officer, Arianespace</i></p> <p><b>Dave Caddey</b>  <i>President, MacDonald Dettwiler Space Group</i></p>					
10:00 – 10:30	Break sponsored by Arianespace					
Time/Track	2	2	1	3	4	5
Room	Amphitheatre 1	Amphitheatre 2	International 1	International 2	Cartier 1	Cartier 2
10:30	Session Title: <b>Science Operations</b>  FR.A1.01 – Track 2  <b>Space Development and Operations Grid Prototype</b> <u>R.N. Bradford</u>	Session Title: <b>Science Operations</b>  FR.A2.01 – Track 2  <b>Planning Strategy and Supporting Tools for the Science Operations of ESA's Planetary Science Missions</b> <u>R.M.T. Hoofs</u>	Session Title: <b>Studies and Proposals</b>  FR.I1.01 – Track 1  <b>The World Space Observatory: A Distributed Operations Concept</b> <u>M. Merr</u>	Session Title: <b>Highly Elliptical Mission Operations</b>  FR.I2.01 – Track 3  <b>Spitzer Space Telescope (SST) In-orbit Checkout and Science Verification Operations</b> <u>S. Linick</u>	Session Title: <b>Risk and Safety</b>  FR.C1.01 – Track 4  <b>Identifying Organizational Risk Factors in Space Support Environments: The Use of Surveys</b> <u>B. Parke</u>	Session Title: <b>International Space Station</b>  FR.C2.01 – Track 5  <b>An Enabling Technology for New Planning and Scheduling Paradigms</b> <u>P. Meyer</u>
11:00	FR.A1.02 – Track 2  <b>Mars Image Products: Science Goes Operational</b> <u>R. Deen</u>	FR.A2.02 – Track 2  <b>Science Operations for Planetary Missions in the European Space Agency</b> <u>D. Koschny</u>	FR.I1.02 – Track 1  <b>The SpaceWire Onboard Network for Spacecraft</b> <u>S.M. Parkes</u>	FR.I2.02 – Track 3  <b>Use of Best Practices During Operations Development for AIM</b> <u>D.C. Welch</u>	FR.C1.02 – Track 4  <b>Would a Global Approach Enhance Safety in Human Spaceflight?</b> <u>S. Laraqui</u>	FR.C2.02 – Track 5  <b>Using Aspect-Oriented Technology to Accommodate Adaptability on the ISS</b> <u>F. Akkawi</u>
11:30	FR.A1.03 – Track 2  <b>ICARE - Migration of CNES Ground Station Communications to Internet Protocol</b> <u>J.-M. Soula</u>	FR.A2.03 – Track 2  <b>VoIP in Ground Control Conferencing Systems</b> <u>S. Menard</u>	FR.I1.03 – Track 1  <b>Impact of SpaceWire Networks on Payload Implementation and Operation</b> <u>A. Donadoni</u>	FR.I2.03 – Track 3  <b>INTEGRAL: The Operational Experience</b> <u>M. Schmidt</u>	FR.C1.03 – Track 2  <b>Security Issues for the GSOC Control Center in the Columbus Era,</b> <u>M. Pilgram</u>	FR.C2.03 – Track 5  <b>Autonomous Operation for Japan Experiment Module (JEM) Cost Reduction</b> <u>K. Imaki</u>
12:00 – 13:00	<b>Closing Ceremony</b> <i>Room: Amphitheatre, Level 1</i>					