

SUMMARY OF TECHNICAL SESSIONS

A. ASTRODYNAMICS SYMPOSIUM (7 sessions)		
A.1.	Mission and Constellation Design	Oct. 1 Monday pm
A.2.	Attitude Dynamics	Oct. 3 Wednesday am
A.3.	Attitude Control	Oct. 2 Tuesday pm
A.4.	Multibody Dynamics	Oct. 2 Tuesday am
A.5.	Optimization	Oct. 4 Thursday pm
A.6.	Orbital Dynamics	Oct. 4 Thursday am
A.7.	Guidance and Control	Oct. 5 Friday am
B. SYMPOSIUM ON EARTH OBSERVATION (6 sessions)		
B.1.	Earth Observation Missions and International Cooperation	Oct. 1 Monday pm
B.2.	Future Earth Observation Systems	Oct. 2 Tuesday am
B.3.	Earth Observation Sensors & Technology.....	Oct. 2 Tuesday pm
B.4.	Data for Environmental Applications and Global Change Studies	Oct. 3 Wednesday pm
B.5.	Earth Observation Business Development and Economic Benefits	Oct. 4 Thursday am
B.6.	Data Processing and GIS	Oct. 4 Thursday pm
C. SPACE AND NATURAL DISASTER REDUCTION SYMPOSIUM (2 sessions)		
C.1.	Existing Space Programs and Applications for Natural Disaster Mitigation	Oct. 2 Tuesday am
C.2.	International Cooperation and New Concepts	Oct. 3 Wednesday am
G. JOINT IAF/AA LIFE SCIENCES SYMPOSIUM (5 sessions)		
G.1.	New Approaches to Medical Care: Telemedicine and New Technologies	Oct. 3 Wednesday am
G.2.	Exobiology and Planetary Protection	Oct. 3 Wednesday pm
G.3.a.	Space Human Factors: Psychophysiology and Models	Oct. 3 Wednesday pm
G.3.b.	Space Human Factors: Group and Cultural Issues	Oct. 4 Thursday pm
G.4.	Hybrid Life Support Systems for Space and Terrestrial Applications	Oct. 5 Friday am
I. MATERIALS AND STRUCTURES SYMPOSIUM (6 sessions)		
I.1.	Development and Verification	Oct. 1 Monday pm
I.2.	Space Structures – Dynamics and Microdynamics	Oct. 2 Tuesday am
I.3.	New Materials and Structural Concepts	Oct. 2 Tuesday pm
I.4.	Smart Materials and Adaptable Structures	Oct. 3 Wednesday am
I.5.	Environmental Effects and Structural Protection	Oct. 3 Wednesday pm
I.6.	Space Vehicles – Mechanical / Thermal Subsystems	Oct. 4 Thursday am
J. MICROGRAVITY SCIENCES AND PROCESSES SYMPOSIUM (6 sessions)		
J.1.	Gravity and Fundamental Physics	Oct. 2 Tuesday am
J.2.	Microgravity Engineering Sciences	Oct. 2 Tuesday pm
J.3.	Results of Microgravity Experiments	Oct. 3 Wednesday am
J.4.	Results from Ground-Based Experiments	Oct. 3 Wednesday pm
J.5.	Facilities and Operations of Microgravity Experiments	Oct. 4 Thursday am
J.6/T.5.	Joint Session on Physical Science Microgravity Activities on Board the ISS	Oct. 5 Friday am
M. SATELLITE COMMUNICATIONS SYMPOSIUM (6 sessions)		
M.1.	Global Information Infrastructure - Key Policy	Oct. 1 Monday pm
M.2.a.	Advanced Systems and Technologies	Oct. 2 Tuesday am
M.2.b.	Advanced Systems and Technologies	Oct. 3 Wednesday am
M.3.	Mobile Communications and Satellite Navigation	Oct. 3 Wednesday pm
M.4.	Non-Geostationary Systems.....	Oct. 4 Thursday pm
M.5.	Fixed and Broadcast Services	Oct. 5 Friday am
P. JOINT IAF/ISSAT/ ISU SPACE AND EDUCATION SYMPOSIUM (4 sessions)		
P.00	Opening Session	Oct. 3 Wednesday am
P.1.	“Hands-On” Education	Oct. 3 Wednesday pm
P.2.	Educational Structures	Oct. 4 Thursday am
P.3.	Educational Outreach	Oct. 4 Thursday pm
P.4.	Beyond Education	Oct. 5 Friday am
Q. SPACE EXPLORATION SYMPOSIUM (6 sessions)		
Q.1.	Space Based Astronomy	Oct. 1 Monday pm
Q.2.	Solar System Exploration	Oct. 2 Tuesday pm
Q.3.a.	Mars Exploration	Oct. 3 Wednesday am
Q.3.b.	Mars Exploration	Oct. 4 Thursday pm
Q.4.	New Mission Concepts for Space Exploration	Oct. 4 Thursday pm
Q.5.	Small Bodies Missions and Technologies	Oct. 5 Friday am

R.	SPACE POWER SYMPOSIUM (4 sessions)		
R.1.	Power from Space - Prospects for the 21st Century	Oct. 1 Monday	pm
R.2.	Advanced Space Power Systems and Technologies	Oct. 2 Tuesday	pm
R.3.	Special organized session "Case Studies in Market Analyses of Solar Power"	Oct. 4 Thursday	am
R.4/IAA.13.4.	Joint session on Energy-Rich Approaches to Human Exploration of Mars and Beyond Innovative Space Power Concepts and Technologies	Oct. 4 Thursday	pm
S.	SPACE PROPULSION SYMPOSIUM (6 sessions)		
S.1.	Space Propulsion Systems I	Oct. 1 Monday	pm
S.2.	Space Propulsion Systems II	Oct. 2 Tuesday	am
S.3.	Space Propulsion Technology	Oct. 3 Wednesday	am
S.4.	Electric Propulsion	Oct. 4 Thursday	am
S.5.	Hypersonic and Combined Cycle Propulsion	Oct. 3 Wednesday	pm
S.6.	Advanced Propulsion – Non Chemical, non Electric Energy Sources ...	Oct. 4 Thursday	pm
T.	SPACE STATIONS SYMPOSIUM (5 sessions)		
T.1.	Overview of Space Stations	Oct. 1 Monday	pm
T.2.	Design, Development, Verification and Integration of Space Stations ..	Oct. 3 Wednesday	pm
T.3.	Operations of Space Stations	Oct. 4 Thursday	am
T.4.	International Utilization of Space Stations	Oct. 4 Thursday	pm
T.5./J.6.	Joint Session on Physical Science Microgravity Activities on Board the ISS	Oct. 5 Friday	am
U.	SPACE SYSTEMS SYMPOSIUM (5 sessions)		
U.1.	System engineering and Design Techniques	Oct. 2 Tuesday	am
U.2.	Technology Transfer, Strategy + Plans	Oct. 2 Tuesday	pm
U.3.	New Technology for Space Systems	Oct. 3 Wednesday	pm
U.4.	Software for Space Systems	Oct. 4 Thursday	am
U.5.	Innovative and Visionary Systems Concepts	Oct. 4 Thursday	pm
V.	SPACE TRANSPORTATION SYMPOSIUM (6 sessions)		
V.1.	Launch Vehicles	Oct. 2 Tuesday	am
V.2.	Launch Services	Oct. 3 Wednesday	am
V.3.	Space Transfer & Re-Entry	Oct. 3 Wednesday	pm
V.4.	Advanced Launch Vehicle Systems	Oct. 4 Thursday	am
V.5.	Advanced Launch Vehicle Technologies	Oct. 4 Thursday	pm
V.6.	Missions, Facilities & Operations	Oct. 5 Friday	am
W.	STUDENT CONFERENCE (2 sessions)		
W.1.	Student Conference 1	Oct. 2 Tuesday	am
W.2.	Student Conference 2	Oct. 2 Tuesday	pm
IAA.1.	31st SYMPOSIUM ON ECONOMICS AND COMMERCIALIZATION OF SPACE ACTIVITIES (3 sessions)		
IAA.1.1.	Launch Vehicles' Cost Engineering and Economic Competitiveness ...	Oct. 1 Monday	pm
IAA.1.2.	Commercialization of Space Activities / Financing / New Business Opportunities	Oct. 4 Thursday	am
IAA.1.3.	Space Tourism and other Novel Space Applications	Oct. 4 Thursday	pm
IAA.2.	35TH HISTORY OF ASTRONAUTICS SYMPOSIUM (3 sessions)		
IAA.2.1.	Memoirs	Oct. 1 Monday	pm
IAA.2.2.	Organizational Histories	Oct. 3 Wednesday	pm
IAA.2.3.	Scientific and Technical Reviews	Oct. 4 Thursday	am
IAA.3.	15TH INTERNATIONAL SPACE PLANS AND POLICIES SYMPOSIUM (2 sessions)		
IAA.3.1.	International Cooperation and Competition Policies and Plans Affecting Competition and Commercialization of Space Enterprises	Oct. 3 Wednesday	am
IAA.3.2.	Cooperation and Competition in Advanced Propulsion Systems	Oct. 4 Thursday	pm
IAA.4.	14th INTERSTELLAR SPACE EXPLORATION SYMPOSIUM (1 session)		
IAA.4.1.	Space Exploration at the Kuiper Belt, the Heliosphere Boundaries, the Solar Gravitational Lens and Beyond	Oct. 1 Monday	pm
IAA.5.	MULTILINGUAL ASTRONAUTICAL TERMINOLOGY SYMPOSIUM (1 session)		
IAA.5.1.	Practical uses of Terminology in Space Activities	Oct. 4 Thursday	am

IAA.6. 34TH SAFETY, RESCUE AND QUALITY SYMPOSIUM (7 sessions)		
IAA.6.1. Risk Versus Cost: why did "Faster, Better, Cheaper" fail and how to Solve the Issue?.....	Oct. 1 Monday	pm
IAA.6.2 Risk Assessment and Management: A Key Discipline for Successful Program Management	Oct. 2 Tuesday	am
IAA.6.3. Space Weather Issues and Space Environment Effects.....	Oct. 3 Wednesday	am
IAA.6.4 Measurements and Modelling of Space Debris and Meteoroids	Oct. 3 Wednesday	pm
IAA.6.5 Risk Analysis and Protection	Oct. 4 Thursday	am
IAA.6.6 Mitigation Measures and Standards	Oct. 4 Thursday	pm
IAA.6.7. Knowledge Management	Oct. 2 Tuesday	pm
IAA.7. 19TH IAA/IISL SCIENTIFIC-LEGAL ROUNDTABLE (1 session)		
IAA.7.1. Scientific and Legal Implications of Establishing Solar Power Systems on the Geostationary Orbit	Oct. 3 Wednesday	pm
IAA.8. 12TH SPACE ACTIVITIES AND SOCIETY SYMPOSIUM (2 sessions)		
IAA.8.1. Round Table: Ethical Issues Arising from Space Activities	Oct. 4 Thursday	am
IAA.8.2 Internet: Gateway to Space	Oct. 3 Wednesday	am
IAA.9. 30TH REVIEW MEETING OF THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE (2 sessions)		
IAA.9.1. SETI I: Science and Technology	Oct. 2 Tuesday	pm
IAA.9.2. SETI II: Interdisciplinary Connections	Oct. 3 Wednesday	am
IAA.10. EVA AND SPACE SUIT SYMPOSIUM (1 session)		
IAA.10.1.The EVA Wall for ISS Assembly	Oct. 3 Wednesday	pm
IAA.11. SMALL SATELLITE MISSIONS SYMPOSIUM (5 sessions)		
IAA.11.1.a. UN/IAA Workshop on Small Satellites serving Developing Countries, with Particular Emphasis on Africa	Oct. 2 Tuesday	am
IAA.11.1.b. UN/IAA Workshop on Small Satellites serving Developing Countries, with Particular Emphasis on Africa	Oct. 2 Tuesday	pm
IAA.11.2. Small Planetary Missions: The Next Generation	Oct. 2 Tuesday	pm
IAA.11.3. Small Satellite Operations	Oct. 4 Thursday	pm
IAA.11.4. Small Satellites for Earth Observation - Lessons Learned and New Generation	Oct. 3 Wednesday	pm
IAA.12. ADVANCED MATERIALS SCIENCE SYMPOSIUM (1 session)		
IAA.12.1. Gravity Effects on Materials Processing	Oct. 1 Monday	pm
IAA.13. SYMPOSIUM ON INTERNATIONAL MOON/ MARS EXPLORATION (4 sessions)		
IAA.13.1. Rationale for Human Exploration of Space Beyond Low Earth Orbit - Near- and Long-Term Goals	Oct. 2 Tuesday	am
IAA.13.2. Human Lunar Mission Development Session	Oct. 3 Wednesday	pm
IAA.13.3. Strategies and Plans for Human Mars Missions	Oct. 4 Thursday	am
IAA.13.4./R.4. Joint Session on Energy-Rich Approaches to Human Exploration of Mars and Beyond - Potential Applications of Innovative Space Power Concepts and Technologies.....	Oct. 4 Thursday	pm
IISL. 44TH COLLOQUIUM ON THE LAW OF OUTER SPACE (4 sessions)		
IISL.1. Emerging Issues of Interpretation and Applications of Space Treaties	Oct. 2 Tuesday	am
IISL.2. Emerging Legal Issues in Satellite Telecommunications	Oct. 2 Tuesday	pm
IISL.3. Legal Issues Arising from the Commercial Availability of High Quality Remote Sensing Imagery	Oct. 3 Wednesday	am
IISL.4. Other Legal Matters including:	Oct. 5 Friday	am
- the teaching of space law at the dawn of the new millennium		
- space debris		
- conflicts relating to space activities		
- legal aspects of human habitations in outer space		
- emerging legal issues in the field of navigation by satellite		