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UNISPACE III

Environment
Environnement
Communication
Communication

Advancement
Progrès

Peace
Paix

Safety
Prévention



FINAL PROGRAMME/PROGRAMME DEFINITIF



THIRD UNITED NATIONS
CONFERENCE ON
THE EXPLORATION
AND PEACEFUL USES
OF OUTER SPACE
19 - 30 JULY 1999

**The publication of this final programme
is sponsored by:**



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UNISPACE III

**Third United Nations Conference
on the Exploration and Peaceful Uses
of Outer Space**

19-30 July 1999

Vienna, Austria

(Vienna International Centre & Austria Center)

Final Programme

When the launch of Sputnik-I ushered in the space age, it was feared that outer space would become the next arena of geopolitical competition between the two superpowers. Over the years, the United Nations played an important role in mitigating this potential confrontation by promoting international cooperation and developing a legal regime for the peaceful uses of outer space. As the world moved beyond the Cold War definitions of co-existence, it began to realize a broad range of threats, such as resource degradation, climate change, ozone depletion and ocean and air pollution, that transcend countries and continents. Greater international cooperation is now required to ensure the co-existence of the present and future generations on the entire planet.

Space science and technology and their applications have proven that they can help ameliorate common regional and global problems such as natural disasters and environmental degradation, as well as increase the understanding of world-wide phenomena such as climate change. They have potential for accelerating socio-economic development. The usefulness of space science and technology, however, has not yet been fully realized, especially in the developing parts of the world.

It is in this context that the United Nations General Assembly, in its resolution 52/56 adopted on 10 December 1997, decided to convene the Third United Nations Conference on the Exploration and Peaceful Uses of Outer Space (UNISPACE III) at the United Nations Office at Vienna from 19 to 30 July 1999. Many countries have come to realize that UNISPACE III would serve as an ideal forum to construct a practical, well-defined framework for the global society to maximize the benefits of space science and technology through international cooperation in space activities in the years ahead. UNISPACE III should attract the participation of high-level government officials and policy makers from the 185 Member States of the United Nations, including heads of space agencies, as well as representatives of intergovernmental and non-governmental organizations. UNISPACE III should also be attended by top executives from space-related industry.

A unique component of UNISPACE III will be the presence of the space industry, which has increasing influence on the course of events in many areas of space activities. UNISPACE III will be the first United Nations global conference in which industry and the civil society are invited to participate as partners of the United Nations.

All participants from industrialized and developing countries should find UNISPACE III as an excellent opportunity to exchange ideas on the direction of space activities, establish professional networks and explore commercial opportunities.

The dawning of the next millennium signals great challenges for the United Nations. It should continue to explore better ways to help all nations, and all people, particularly those in developing countries, to utilize space science and technology to accelerate socio-economic development. At the same time, it must strengthen its efforts to protect the global environment, as we did not inherit the planet from our ancestors, but we are just borrowing the planet from our children.

It is hoped that at the conclusion of the conference, the global society would have a practical blueprint for cooperation in space activities into the 21st century, and UNISPACE III would mark the beginning of the new era of co-existence and harmony with nature.

Lorsque le lancement du satellite Spoutnik-I a marqué le début de l'ère spatiale, on a craint que l'espace ne devienne le nouveau champ d'affrontement géopolitique entre les deux superpuissances. Au fil des années, l'Organisation des Nations Unies a contribué dans une large mesure à réduire ce risque de conflit en encourageant la coopération internationale et en établissant un régime juridique applicable aux utilisations pacifiques de l'espace extra-atmosphérique. À mesure que la communauté internationale a abandonné le mode de coexistence imposé par la guerre froide, elle a commencé à prendre conscience d'un grand nombre de dangers, tels que la dégradation des ressources, les changements climatiques, l'appauvrissement de la couche d'ozone ainsi que la pollution des océans et de l'air, qui pèsent sur l'ensemble des pays et des continents. Une plus large coopération internationale est aujourd'hui nécessaire si l'on veut assurer la coexistence des générations présentes et futures sur la planète.

Il s'est avéré que les sciences et les techniques spatiales ainsi que leurs applications pouvaient permettre de remédier à des problèmes communs d'importance régionale et mondiale, tels que les catastrophes naturelles et la dégradation de l'environnement, et de mieux comprendre des phénomènes mondiaux comme les changements climatiques. Elles peuvent également contribuer à accélérer le développement socioéconomique. Or, l'utilité des sciences et des techniques spatiales n'a pas encore été pleinement reconnue, en particulier dans les régions en développement.

C'est dans ce contexte que l'Assemblée générale des Nations Unies, dans sa résolution 52/56 adoptée le 10 décembre 1997, a décidé que la troisième Conférence des Nations Unies sur l'exploration et les utilisations pacifiques de l'espace extra-atmosphérique (UNISPACE III) se tiendrait à l'Office des Nations Unies à Vienne du 19 au 30 juillet 1999. De nombreux pays ont reconnu que cette conférence serait un cadre tout indiqué pour mettre au point un plan concret et bien défini qui permettrait à la communauté internationale de tirer pleinement profit, dans les années à venir, des avantages offerts par les sciences et les techniques spatiales grâce à la coopération internationale dans les activités spatiales. La Conférence devrait réunir des fonctionnaires et des décideurs de haut niveau venant des 185 États Membres de l'Organisation des Nations Unies, ainsi que des directeurs d'agences spatiales et des représentants d'organisations intergouvernementales et non gouvernementales. Elle devrait également accueillir des responsables de l'industrie liée au domaine spatial.

Une caractéristique unique de la Conférence sera la présence de l'industrie spatiale, qui influe de plus en plus sur le cours des événements dans de nombreux domaines des activités spatiales. UNISPACE III sera la première conférence mondiale des Nations Unies à laquelle l'industrie et la société civile sont invitées à participer en qualité de partenaires.

Pour tous les participants, qu'ils viennent de pays industrialisés ou de pays en développement, la Conférence UNISPACE III devrait être une excellente occasion d'échanger des idées sur l'orientation des activités spatiales, d'établir des contacts professionnels et d'explorer des débouchés commerciaux.

À l'aube du nouveau millénaire se profilent d'importants défis que l'Organisation des Nations Unies devra relever. Celle-ci devra continuer de chercher des moyens plus efficaces pour aider tous les pays et tous les habitants de la planète, en particulier ceux des pays en développement, à utiliser les sciences et les techniques spatiales afin d'accélérer leur développement socioéconomique. Parallèlement, elle devra redoubler d'efforts pour protéger l'environnement mondial, car la planète n'est pas un bien que nous avons reçu en héritage de nos ancêtres, mais plutôt un patrimoine appartenant à nos enfants et dont nous sommes responsables.

Il faut espérer qu'à l'issue de la Conférence la communauté internationale aura élaboré un schéma pratique pour la coopération dans les activités spatiales au XXI^e siècle et que la Conférence marquera le début d'une nouvelle ère de coexistence et d'harmonie avec la nature.

Following the launch of Sputnik-1 in 1957, the General Assembly established, in 1958, the Ad Hoc Committee on the Peaceful Uses of Outer Space to facilitate international cooperation in space activities and to consider legal problems that might arise in exploring outer space. The Committee was established as a permanent body in 1959.

The work of the Committee, assisted by its Scientific and Technical Subcommittee and Legal Subcommittee, led to the establishment by the United Nations of the international legal regime governing space activities, which now consists of five treaties and five sets of declarations and legal principles. The Committee's work has also led to the holding of two United Nations conferences at Vienna, Austria, in 1968 and 1982. Those conferences led to initiatives to further promote international cooperation in space activities for peaceful purposes, such as the creation of the United Nations Programme on Space Applications, which organizes educational and training activities and provides technical advisory services.

Since the last United Nations conference on space activities in 1982, there has been a fundamental change in the geo-political context. The end of the Cold War enhanced opportunities for international cooperation between various countries. The participation of the private sector in space activities has also increased, accelerating the commercialization of space activities and providing products and services required for space-related activities at a lower cost.

There have also been rapid advances in space science and technology. Together with advances in information technology, they have contributed to shrinking distances between people. Space science and technology have also provided essential tools to monitor the status of the global environment and to manage limited natural resources. Despite a profound impact that space science and technology had on the day-to-day life of people, their potential to further enhance the human condition is, however, yet to be fully recognized by many policy makers and the general public, particularly in developing countries.

The international community stands at a crucial point to make space science and technology available to further enrich the life of all people. Recognizing the growing momentum for international cooperation in space endeavours, the United Nations, therefore, decided to hold UNISPACE III, in order to provide opportunities for the international community to prepare a blueprint to maximize the benefits of space science and technology for all people into the new millennium.

Après le lancement, en 1957, du satellite Spoutnik-I, l'Assemblée générale a créé, en 1958, le Comité spécial des utilisations pacifiques de l'espace extra-atmosphérique chargé de faciliter la coopération internationale dans les activités spatiales et d'examiner les problèmes juridiques que pourrait soulever l'exploration de l'espace. Le Comité est devenu un organe permanent en 1959.

Les travaux du Comité, qui est assisté par le Sous-Comité scientifique et technique et le Sous-Comité juridique, ont permis à l'Organisation des Nations Unies de créer un régime juridique international s'appliquant aux activités spatiales, constitué actuellement de cinq traités et de cinq séries de principes juridiques. Les travaux du Comité ont également abouti à l'organisation de deux conférences des Nations Unies, qui se sont tenues à Vienne (Autriche) en 1968 et en 1982. Ces conférences ont donné lieu à des initiatives destinées à promouvoir davantage la coopération internationale dans les activités spatiales à des fins pacifiques et ont notamment débouché sur la création du Programme des Nations Unies pour les applications des techniques spatiales, qui organise des activités d'enseignement et de formation et fournit des services consultatifs techniques.

Depuis la dernière Conférence des Nations Unies sur les activités spatiales tenue en 1982, le contexte géopolitique a profondément changé. Avec la fin de la guerre froide, les possibilités de coopération internationale entre divers pays se sont multipliées. En outre, la participation du secteur privé aux activités spatiales est devenue de plus en plus fréquente, ce qui a accéléré la commercialisation de ces activités et a permis de fournir les produits et les services nécessaires aux activités en rapport avec l'espace à un coût moindre.

De même, les sciences et les techniques spatiales ont évolué rapidement. Cette évolution, qui est allée de pair avec les progrès de l'informatique, a permis de réduire les distances entre les habitants de la planète. Les sciences et les techniques spatiales ont également fourni des outils essentiels pour surveiller l'état de l'environnement mondial et gérer des ressources naturelles finies. Bien qu'elles aient eu un impact considérable sur la vie quotidienne des individus, de nombreux décideurs ainsi que le grand public, en particulier dans les pays en développement, outils essentiels pour surveiller l'état de l'environnement mondial et gérer des ressources naturelles finies. Bien qu'elles aient eu un impact considérable sur la vie quotidienne des individus, de nombreux décideurs ainsi que le grand public, en particulier dans les pays en développement, n'ont pas encore pleinement compris qu'elles pouvaient encore améliorer la condition humaine.

La communauté internationale aborde une étape cruciale dans laquelle les sciences et les techniques spatiales pourraient servir à améliorer encore la vie de tous. Constatant l'importance grandissante de la coopération internationale dans les entreprises spatiales, l'Organisation des Nations Unies a décidé d'organiser la Conférence UNISPACE III, afin que la communauté internationale puisse élaborer un plan qui permette à tous les habitants de la planète de tirer le meilleur parti des sciences et des techniques spatiales pendant le prochain millénaire.

One of the key objectives of UNISPACE III is to identify specific areas and actions through which space science and technology can help solve common problems of regional or global significance. Examples of such problems are natural disasters, environmental degradation, climate change, outbreak of infectious diseases and underdevelopment of rural and remote areas. To achieve that objective, UNISPACE III will also consider ways of expediting the use of space applications by countries to promote sustainable development. Special attention will be given to how to maximize the use of space technology in implementing the recommendations of Agenda 21, which was adopted at the Earth Summit in 1992, in Rio de Janeiro, Brazil, as well as those of other global conferences.

Greater understanding and use of space science and technology would assist in stimulating economic and social development, especially in developing countries. Another key objective of UNISPACE III is, therefore, to strengthen the capabilities of countries, particularly developing countries, in using space applications for economic, social and cultural development. To achieve that objective, UNISPACE III will address various issues related to education, training and technical assistance in space science and technology and their applications. Prior to UNISPACE III, developing countries, in particular, have been encouraged to define their needs for space applications for development purposes.

UNISPACE III will also strive to increase awareness of the general public of the benefits of space technology. Ways and means to further strengthen international cooperation in space activities will be also identified at UNISPACE III. Particular attention will be given to the role that the United Nations and its agencies can play in promoting the utilization of space science and technology for development purposes while establishing partnerships with space-related industry and non-governmental organizations.

L'un des principaux objectifs de la Conférence est de déterminer les domaines et les mesures à travers lesquels les sciences et les techniques spatiales pourront contribuer à résoudre des problèmes communs d'importance régionale ou mondiale, tels que les catastrophes naturelles, la dégradation de l'environnement, les changements climatiques, les épidémies et le sous-développement des zones rurales et isolées. À cette fin, on s'attachera également, dans le cadre de la Conférence, à examiner les moyens d'aider les pays à utiliser les applications des techniques spatiales au service du développement durable. On étudiera plus particulièrement comment tirer le meilleur parti des techniques spatiales en appliquant les recommandations du programme Action 21, adopté lors du Sommet "Planète Terre" tenu en 1992 à Rio de Janeiro (Brésil), ainsi que les recommandations d'autres conférences mondiales.

Une meilleure compréhension et une plus large utilisation des sciences et des techniques spatiales favoriseraient le développement économique et social, surtout dans les pays en développement. Aussi, la Conférence a-t-elle également pour principal objectif de donner davantage de moyens aux pays, en particulier aux pays en développement, afin qu'ils utilisent les applications des techniques spatiales pour leur développement économique, social et culturel. À cette fin, diverses questions liées à l'enseignement, à la formation et à l'assistance technique en relation avec les sciences et les techniques spatiales ainsi que leurs applications seront examinées. Avant la Conférence, les pays en développement, en particulier, ont été encouragés à déterminer les applications des techniques spatiales dont ils avaient besoin pour leur développement.

On s'efforcera également pendant la Conférence de sensibiliser le grand public aux avantages des techniques spatiales ainsi que de déterminer les moyens permettant de renforcer encore la coopération internationale dans les activités spatiales. On se penchera plus particulièrement sur le rôle que l'Organisation des Nations Unies et les organismes qui y sont reliés peuvent jouer en vue de promouvoir l'utilisation des sciences et des techniques spatiales en faveur du développement dans le cadre de partenariats avec l'industrie liée au domaine spatial et les organisations non gouvernementales.

IV. UNISPACE III AT A GLANCE

Plenary, Committee I, Committee II and Technical Forum from 19 to 30 July

	Mon. 19 July		Tue. 20 July		Wed. 21 July		Thu. 22 July		Fri. 23 July		Mon. 26 July		Tue. 27 July		Wed. 28 July		Thu. 29 July		Fri. 30 July			
	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.		
Plenary	Plenary meetings																Plenary meetings					
Committee I					Committee I meetings																	
Committee II			Committee II meetings						Committee II meetings													
Technical Forum			Technical Forum: workshops, seminars, roundtables and panels																			
Space exhibition	Space Exhibition																					

NOTE: UNISPACE III consists of the Plenary, Committee I, Committee II and the Technical Forum. Intergovernmental meetings take place in the Plenary and Committees I and II to consider agenda items. The Technical Forum consists of about 40 workshops, seminars, roundtables and panels organized by space agencies and space-related international organizations and industry on various topics related to the agenda items, space exhibition, Space Generation Forum for young professionals and university students as well as series of technical presentations by representatives of the governments, international organizations and industry. Technical and scientific details of the substantive agenda items of the Conference will be considered in workshops and seminars of the Technical Forum. All the activities of the Technical Forum are open to all participants of the conference. All open meetings of the intergovernmental bodies, i.e. the Plenary, Committee I and Committee II, may be observed by all participants of the Conference.

(ACV = Austria Center; VIC = Vienna International Centre)

[NOTE: For more information of an activity, see the text under the number assigned to the activity in Section VI "Activities of the Technical Forum"]

Mond., Tues., Wed., Frid., 12-13-14-16 July 1999**Thursday, 15 July 1999**

Conf. Rm. I VIC				Conf. Rm. I VIC		Conf. Rm. II VIC	
9:00-12:00 [13] Special Environment Symposium				9:00-12:30 [13] Radio workshop of the Symposium		9:00-12:30 [13] Optical workshop of the Symposium	
14:30-17:30 [13] Special Environment Symposium				14:00-17:30 [13] Radio workshop of the Symposium		14:00-17:30 [13] Optical workshop of the Symposium	

Sunday, 18 July 1999

Hall E - ACV	
10:30-13:00 Pre-Conference Consultations	
15:00-18:00 Pre-Conference Consultations	

Monday, 19 July 1999 **

Hall A - ACV		Exhibition Hall ACV	UN/UNIDO Boardroom VIC	Conf. Rm. III VIC
10:00-12:00 Plenary*: Official opening; agenda items 2-6	item 1: Official opening item 2: Election of the President of the Conference item 3: Statement by the President of the Conference item 4: Adoption of the rules of procedure and the agenda item 5: Establishment of the committees and election of other officers	12:00 (to be confirmed) Opening of the Space Exhibition	14:00-15:00 Space Generation Forum	15:00-17:00 [30] High-Level Academic Panel
15:00-18:00 Plenary*: agenda item 6	item 6: General exchange of views			

* Interpretation services in all official languages of the conference will be provided.

** IISL Workshop's Working Group on Privatisation will be held on Monday, 19 July 1999, from 9:00 to 18:00 in Conference Room II at the VIC.

IV. UNISPACE III AT A GLANCE

Tuesday, 20 July 1999

	Hall D ACV	Hall E ACV	Hall F ACV	Halls I+K ACV	Hall G ACV	Hall H ACV	Conf. Rm. I, IV and V VIC	Conf. Rm. II VIC
9:00	9:00-12:00 Plenary*: agenda item 6, "General exchange of views"		9:00-12:00 Committee II*: agenda item 8, "Status and applications of space science & technology"	9:00-12:00 [1] Scientific Forum on Climate Variability and Global Change**	9:00-12:00 [31] Workshop on Managing Space Programmes in Developing Countries	9:00-12:00 [14] Special Workshop on Education	9:00-12:00 Space Generation Forum	9:00-12:00 [38] Workshop on Space Law
10:00								
11:00								
12:00		12:00-13:30 [32] High-level Space-Industry Panel						
13:00								
14:00								
15:00	14:30-17:30 Plenary*: agenda item 6, "General exchange of views"		14:30-17:30 Committee II*: agenda item 8, "Status and applications of space science & technology"	14:30-17:30 [1] Scientific Forum on Climate Variability and Global Change**	14:30-17:30 [33] Session on the Results from the 5 th International Cooperation in Space Workshop	14:30-17:30 [14] Special Workshop on Education	14:30-17:30 Space Generation Forum	14:30-17:30 [38] Workshop on Space Law
16:00								
17:00								
18:00	17:30-18:30 Astronauts & cosmonauts event							

Wednesday, a.m., 21 July 1999

	Hall D ACV	Hall E ACV	Hall F ACV	Halls I+K ACV	Hall G ACV	Hall H ACV	Conf. Rm. I, III, IV and V VIC	Conf. Rm. II VIC
9:00	9:00-12:00 Plenary*: agenda item 6, "General exchange of views"	9:00-12:00 Committee I*: agenda item 7, "Status of the scientific knowledge of Earth and its environment"		9:00-12:00 [2] Forum on Integrated Global Observing Strategy**	9:00-12:00 [34] Forum on Space Activities in the 21st Century	9:00-12:00 [14] Special Workshop on Education	9:00-12:00 Space Generation Forum	9:00-12:00 [38] Workshop on Space Law
12:00								
13:00			12:00-13:30 [35] Space Agency Heads Panel					

Wednesday, p.m., 21 July 1999

	Hall D ACV	Hall E ACV	Halls I+K ACV	Hall G ACV	Hall H ACV	Conf. Rm. III VIC	Conf. Rm. I, IV, V and VII VIC	Conf. Rm. II VIC
15:00			14:30-17:30	14:30-17:30	14:30-17:30	14:30-17:30	14:30-17:30	14:30-17:30
16:00	15:00-18:00 Plenary*: agenda item 6, "General exchange of views"	15:00-18:00 Committee I*: agenda item 7, "Status of the scientific knowledge of Earth and its environment"	[2] Forum on Integrated Global Observing Strategy**	[34] Forum on Space Activities in the 21st Century	[14] Special Workshop on Education	[15] Roundtable on Integration of Earth Observation into Secondary Education	Space Generation Forum	[38] Workshop on Space Law
17:00								

Thursday, 22 July 1999

	Hall D ACV	Hall E ACV	Hall F ACV	Halls I+K ACV	Hall G ACV	Hall H ACV	Conf. Rm. I, III, IV and V VIC	Conf. Rm. II VIC
9:00	9:00-12:00 Plenary*: agenda item 6, "General exchange of views"	9:00-12:00 Committee I*: agenda item 7, "Status of the scientific knowledge of Earth and its environment"		9:00-12:00 [6] Workshop on Disaster Management**	9:00-12:00 [5] Workshop on Resource Mapping from Space	9:00-12:00 [16] Symposium on Recent Progress and Future Plans for Exploration of the Solar System	9:00-12:00 Space Generation Forum	9:00-12:00 [38] Workshop on Space Law
10:00								
11:00								
12:00			12:00-13:30 [35] Space Agency & Industry Heads Panel					
13:00								
14:00								
15:00		15:00-18:00 Committee I*: agenda item 7, "Status of the scientific knowledge of Earth and its environment"	15:00-18:00 Committee II*: agenda item 8, "Status and applications of space science & technology"	14:30-17:30 [7] Workshop on Remote Sensing for the Detection, Monitoring & Mitigation of Natural Disasters**	14:30-18:00 [3] CGMS Workshop on Meteorological Satellite Systems	14:30-18:00 [17] Symposium on the Contribution of Space Techniques in Exploring the Universe	14:30-17:30 Space Generation Forum	14:30-17:30 [38] Workshop on Space Law
16:00								
17:00								
18:00								

* Interpretation services in all official languages of the conference will be provided.

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iv. UNISPACE III AT A GLANCE

Friday, 23 July 1999

	Hall D ACV	Hall E ACV	Hall F ACV	Halls I+K ACV	Hall G ACV	Hall H ACV	Conf. Rm. I, III, IV and V VIC	Conf. Rm. II VIC
9:00		9:00-12:00 Committee I*: agenda item 9, "Benefits of basic space science and capacity building"	9:00-12:00 Committee II*: agenda item 8, "Status and applications of space science & technology"	9:00-12:00 [4] Workshop on Blue Planet**	9:00-12:00 [8] Seminar on Environment and Remote Sensing for Sustainable Development	9:00-12:00 [14] Special Workshop on Education	9:00-12:00 Space Generation Forum	9:00-12:00 [38] Workshop on Space Law
10:00								
11:00								
12:00								
13:00	12:00-14:00 [36] Roundtable on Cooperation & Inter- national Competition							
14:00								
15:00		15:00-18:00 Committee I*: agenda item 9, "Benefits of basic space science and capacity building"	15:00-18:00 Committee II*: agenda item 8, "Status and applications of space science & technology"	14:30-17:30 [4] Workshop on Green Planet**	14:30-17:30 [9] Seminar on Global Health	14:30-17:30 [10] Round Table on Tele-Education	14:30-17:30 Space Generation Forum	14:30-17:30 [38] Workshop on Space Law
16:00								
17:00								
18:00				17:30-18:30 [18] Special presentation on the origin of life				

Saturday, 24 July 1999

	Conf. Rm. III, VIC	E 09 51, VIC
	9:00-12:00 Space Generation Forum	9:00-12:00 [38] Workshop on Space Law
	14:30-17:30 Space Generation Forum	14:30-17:30 [38] Workshop on Space Law

Sunday, 25 July 1999

Conf. Rm. III, VIC

9:00-12:00

Space Generation Forum

14:30-17:30

Space Generation Forum

Monday, 26 July 1999

	Hall E ACV	Hall F ACV	Halls I+K ACV	Hall G ACV	Hall H ACV	UN/UNIDO Boardroom VIC	Conf. Rm. I, VIC	Conf. Rm. III, IV and V VIC
9:00								
10:00	9:30-12:30 Committee I*: agenda item 9, "Benefits of basic space science and capacity building"	9:30-12:30 Committee II*: agenda item 8, "Status and applications of space science & technology"	9:00-12:30 [11] Workshop on the Global Navigation Satellite Systems**	9:00-12:30 [20] Workshop on Mars Exploration	9:00-13:30 [19] Workshop on Space Debris		9:00-12:30 [24] Workshop on Geospatial Data Access	9:00-12:00 Space Generation Forum
11:00								
12:00								
13:00	12:30-13:30 Technical presentations	12:30-13:30 Technical presentations						
14:00								
15:00	15:00-18:00 Committee I*: agenda item 10, "Information needs and the global approach"	15:00-18:00 Committee II*: agenda item 8, "Status and applications of space science & technology"		14:30-17:30 [21] Workshop on Observations of Near Earth Objects	14:30-17:30 [25] Workshop on Small Satellites at the Service of Developing Countries	14:30-17:30 [12] Workshop on Telemedicine incld. Tele-Health demonstration**	14:30-17:30 [24] Workshop on Geospatial Data Access	14:30-17:30 Space Generation Forum
16:00								
17:00								

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IV. UNISPACE III AT A GLANCE

Tuesday, 27 July 1999

	Hall E ACV	Hall F ACV	Halls I+K ACV	Hall G ACV	Hall H ACV	Conf. Rm. III, IV and V VIC	Conf. Rm. VII VIC	
9:00								
10:00	9:00-12:30 Committee I*: agenda item 10, "Information needs and the global approach"	9:00-12:30 Committee II*: agenda item 8, "Status and applications of space science & technology"	9:00-12:30 [28] Workshop on Clean and Inexhaustible Space Solar Power	9:00-12:00 [26] Workshop on Developing Indigenous Earth Observation Industrial Capabilities in Developing Countries ***	9:00-12:00 [29] Forum on the Industrial Utilization of the International Space Station	9:00-12:00 Space Generation Forum	9:00-12:00 [37] Workshop on Intellectual Property Rights in Space	
11:00								
12:00								
13:00	12:30-13:30 Technical presentations							
14:00								
15:00	15:00-18:00 Committee I*: agenda item 12, "Promotion of international cooperation"	15:00-18:00 Committee II*: agenda item 11, "Economic and societal benefits"	14:30-17:30 [22] Workshop on Education**	14:30-17:30 [26] Workshop on Developing Indigenous Earth Observation Industrial Capabilities in Developing Countries ***	14:30-17:30 [23] Workshop on Life Sciences Activities at the International Space Station	14:30-17:30 Space Generation Forum	14:30-17:30 [27] Session on International Standardization for Space Systems	
16:00								
17:00								

Wednesday, 28 July 1999

	Hall E ACV	Hall F ACV
	9:30-12:30 Committee I*: agenda item 12, "Promotion of international cooperation"	9:30-12:30 Committee II*: agenda item 11, "Economic and societal benefits"
	12:30-13:30 Technical presentations	
	15:00-18:00 Committee I*: agenda item 12, "Promotion of international cooperation"	15:00-18:00 Committee II*: agenda item 11, "Economic and societal benefits"

Thursday, 29 July 1999

Hall D ACV	Hall E ACV	Hall F ACV
	9:30-12:30 Committee I*: agenda item 12, "Promotion of international cooperation"	9:30-12:30 Committee II*: agenda item 11, "Economic and societal benefits"
	12:30-13:30 Technical presentations	
15:00-18:00 Plenary*: agenda items 13 and 14 "Activities of the Technical Forum" and "Adoption of the report of the Conference, incld. Vienna Declaration and Action Plan"	15:00-18:00 Committee I*: agenda item 9, "Benefits of basic space science and capacity building" (Report of the Space Generation Forum)	

Friday, 30 July 1999

	Hall D ACV
10:00	10:00-13:00
11:00	item 14: Adoption of the report of the Conference, incld. Vienna Declaration and Action Plan
12:00	item 15: Closing of UNISPACE III
13:00	
14:00	
15:00	15:00-18:00
16:00	item 14: Adoption of the report of the Conference, incld. Vienna Declaration and Action Plan
17:00	item 15: Closing of UNISPACE III

* Interpretation services in all official languages of the conference will be provided.

** While arrangements will be made for interpretation services in all official languages of the conference, such services may not be available pending the conference requirements of the Plenary, Committee I or Committee II, or their subsidiary bodies.

*** While arrangements will be made for interpretation services in four languages of the conference, such services may not be available pending the conference requirements of the Plenary, Committee I or Committee II, or their subsidiary bodies.

Intergovernmental meetings will take place in the Plenary, Committee I and Committee II.

Those meetings will be open to official delegates of all 185 Member States, permanent observers of the General Assembly and the Committee on the Peaceful Uses of Outer Space, and the international organizations invited by the Secretariat based on the recommendations by the Preparatory Committee for UNISPACE III. All other participants may also observe the proceedings of the open meetings of the Plenary, Committee I and Committee II.

Morning meetings will be held from 9 a.m. to 12 a.m. from 20 to 23 July (see the morning schedule for 19 July below), and 9.30 a.m. to 12.30 p.m. from 26 to 29 July, except for the morning meeting on 30 July, which will begin at 10 a.m. Afternoon meetings will be held from 3 to 6 p.m., except for 20 July, when they are held from 2:30 to 5:30 p.m.

*Indicative schedule of work:
agenda items to be considered*

Plenary

- Item 1. Official Opening
- Item 2. Election of the President of the Conference
- Item 3. Statement by the President of the Conference
- Item 4. Adoption of the rules of procedure and the agenda
- Item 5. Establishment of the committees and election of other officers
*19 July (Mon), 10:00-12:00
Hall A/Austria Center*
- Item 6. General exchange of views
*19 July (Mon), Hall A/Austria Center; and
20 July (Tue), a.m. - 22 July (Thu), a.m.
Hall D/Austria Center*
- Item 13. Activities of the Technical Forum
29 July (Thu), p.m., Hall D/Austria Center
- Item 14. Adoption of the report of the Conference, including the Vienna Declaration and Action Plan*
*29 July (Thu), p.m. - 30 July (Fri), p.m.
Hall D/Austria Center*
- *Reports of committee chairmen and credentials committee
- Item 15. Closing of the Conference
30 July (Fri), p.m., Hall D/Austria Center

Committee I

Item 7. Status of the scientific knowledge of Earth and its environment

- Reports of international organizations, programmes and initiatives, such as, the Intergovernmental Panel on Climate Change (IPCC), the United Nations Environment Programme (UNEP), the World Meteorological Organization (WMO) and the Committee on Earth Observation Satellites (CEOS)

*21 July (Wed), a.m. - 22 July (Thu), p.m.
Hall E / Austria Center*

Item 9. Benefits of basic space science and capacity building

- Assessment of basic space sciences and their benefits
- Education and training

23 July (Fri), a.m. - 26 July (Mon), a.m. and

29 July (Thu), p.m.,

Hall E / Austria Center

(Report of the Space Generation Forum to be considered on 29 July.)

Item 10. Information needs and the global approach

- Research needs
- Applications needs
- Integration of multi-source data through the use of geographic information systems

*26 July (Mon), p.m. - 27 July (Tue), a.m.,
Hall E / Austria Center*

Item 12. Promotion of international cooperation

*27 July (Tue), p.m. - 29 July (Thu), a.m.,
Hall E / Austria Center*

Adoption of the report of Committee I

*29 July (Thu), p.m.,
Hall E / Austria Center*

Committee II

Item 8. Status and applications of space science and technology

- The environment and natural resources and remote sensing
 - Disaster preparation, warning and mitigation*
 - Environmental hazard detection and mitigation*
 - Coastal degradation/management*
 - Seasonal-to-annual climate prediction*
 - Agricultural enhancements*
 - Resource management and planning*
 - Freshwater management*
 - Global health, including infectious disease, mitigation and prevention*
 - Navigation, positioning and location systems
 - Availability of services*
 - Enhanced capability*
 - Emerging applications*
 - Review of space communications and applications
 - Examining and promoting cooperation in the planning, design, operation and utilization of satellite communication and broadcasting systems*
 - Examining the uses of mobile satellite communications and other new technologies, including low-cost, lightweight satellites in non-geostationary orbits (lightsats)*
 - Examining other uses of satellite-based systems, notably for tele-education, telemedicine, family welfare and emergency communications*
 - Examining the technical aspects of transnational direct satellite broadcasting*
- 20 July (Tue), a.m. & p.m., Hall /Austria Center, and 22 July (Thu), p.m. - 27 July (Tue), a.m.,
Hall F / Austria Center*

Item 11. Economic and societal benefits

- Secondary applications of space technology
 - Potential uses of space for manufacturing, specialized and/or unique products and materials*
 - Industrial and commercial applications of spin-offs from space technologies*
 - Ways and means of increasing the economic efficiency of space technology and its applications
 - Promotion of the commercial benefits of space activities
 - Design, development and use of minisatellites and microsatellites for space research*
 - Reliable and affordable access to space, including the case of human space flight*
 - Ways and means to promote international cooperation
- 27 July (Tue), p.m. - 29 July (Thu), a.m.,
Hall F / Austria Center*

Adoption of the report of Committee II

29 July (Thu), a.m., Hall F / Austria Center

Item 7. Status of the scientific knowledge of Earth and its environment

[1] Scientific Forum on Climate Variability and Global Change

20 July, Tuesday: 9:00-12:00, 14:30-17:30
Halls I+K / Austria Center

Meeting the goals of the Earth science requires using the global perspective of observations from space to understand the planet as a complex system, involving the atmosphere, oceans, land and ice surfaces and the living biosphere. The main issue to be addressed is a need for a balanced programme of space observations, airborne and ground-based measurements and modelling. An essential objective is to develop new observing techniques for measuring important factors and components of the system from space and, in international cooperation, define a global observing strategy to systematically sample relevant global properties.

Coordinator:

National Aeronautics and Space Administration (NASA), (U.S.)

Chair:

Dr. Robert Schiffer, Office of Earth Sciences, NASA

Co-Chair/Rapporteur:

Dr. Sushel Unninayar, NASA/GSFC

Speakers:

Morning session:

Dr. R. Schiffer, NASA HQ, and Dr. Sushel Unninayar, NASA/GSFC,
"Introduction: climate and global change issues"

Dr. Richard Stolarski, NASA/GSFC,
"Ozone depletion, UVB and atmospheric chemistry"

Dr. Kevin Trenberth, National Center for Atmospheric Research (U.S.),
"Global climate system change and observations"

Dr. Richard Somerville, Scripps Institute for Oceanography,
"Predicting decade-to-century climate change: prospects for improving models"

Dr. Judith Lean, Naval Research Laboratory (NRL),
"Sun-climate connections"

Speakers:

Afternoon session: (panel discussion by speakers and participants at the end of the session)

Dr. Jagdish Shukla, Centre for Ocean-Land-Atmosphere Studies,
"Seasonal to inter-annual climate variability and predictability"

Drs. Chester Ropelewski and Antonio Divino Moura, IRI,
"El-Niño: monitoring, prediction, applications, impacts"

Dr. Tony Janetos, WRI,
"Understanding/Predicting changes in terrestrial and marine ecosystems; links with the global carbon cycle"

Dr. Hartmut Grassl, World Meteorological Organization (WMO)/World Climate Research Programme (WCRP),
"Cooperation between space agencies and the World Climate Research Programme"

Dr. Ghassem R. Asrar, Associate Administrator for Earth Science, NASA,
"Closing remarks: contemporary global change science"

Contact:

Ms. Lynn Cline, Deputy Associate Administrator,
Office of External Relations, NASA Headquarters, 2
Independence Square, S.W.,
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e-mail: lynn.cline@hq.nasa.gov

[2] International Forum on Integrated Global Observing Strategy (IGOS): Into the Next Millennium

21 July, Wednesday: 9:00-12:00, 14:30-17:30
Halls I+K / Austria Center

The forum will provide information on IGOS and its constituent organizations and programmes as well as the present joint efforts on synergy and cooperation among the IGOS partners. The forum will also present practical implications of an IGOS and adopt the IGOS Partnership Statement to UNISPACE III.

Coordinator: IGOS partners:

CEOS, sponsors and programme offices of the Global Climate Observing System (GCOS), Global Terrestrial Observing System (GTOS), and Global Ocean Observing System (GOOS), i.e. International Council of Scientific Unions (ICSU), Food and Agricultural Organization of the United Nations (FAO), United Nations Environment Programme (UNEP), United Nations Educational, Scientific and Cultural Organization (UNESCO), Intergovernmental Oceanographic Commission (IOC), WMO; International Group of Funding Agencies (IGFA); programme offices of the International Geosphere-Biosphere Programme (IGBP) and World Climate Research Programme (WCRP)

Co-Chairs:

Prof. John R. G. Townshend, University of Maryland (U.S.)

Dr. He Changchui, FAO

Speakers:

Dr. Ghassem R. Asrar, Associate Administrator for Earth Science, NASA,

"IGOS as a way of living and working together"

Dr. Hartmut Grassl, Director, WCRP,
"Climate research the world over"

Dr. Arthur Lyon Dahl, Coordinator, UN System-wide Earthwatch, UNEP,

"Global observations: responding to user needs"

Dr. K. Kasturirangan, Chairman, Indian Space Research Organization (ISRO), and former Chairman of the Committee on Earth Observation Satellites (CEOS),
"CEOS and the perspective of an IGOS"

Dr. Will Steffen, Director, International Geosphere-Biosphere Programme (IGBP),

"IGOS and the science community"

Dr. Thomas W. Spence, Vice-Chair WG Data and Observations, IGFA

"IGOS perspective of the International Group of Funding Agencies (IGFA)"

Dr. Robert Landis, Director, World Weather Watch Department, WMO,

"Lessons learned in IGOS through the World Weather Watch"

Dr. Alan R. Thomas, Director, GCOS Programme Office, WMO,
"Global Climate Observing System (GCOS)"

Dr. He Changchui, Chief, Environment and Natural Resources Service, FAO,

"Global Terrestrial Observing System (GTOS)"

Dr. Patricio Bernal, Assistant Director-General, IOC-UNESCO,
"Global Ocean Observing System (GOOS)"

Dr. Francis Bretherton, Chairman, GOSSP,

"Global Observing System Space Panel (GOSSP)"

Mr. Robert S. Winokur, Chairman, CEOS Strategic Implementation Team (SIT),

"Implementing IGOS"

Panel discussion:Chair:

Dr. Tillmann Mohr, Director, EUMETSAT, and Chairman, CEOS

Vice-Chair:

Prof. John R. G. Townshend, Chairman, IGOS-P Forum

Rapporteurs:

Mr. Mukund Rao, ISRO (India) and

Ms. Leslie Charles, NASA HQ (U.S.)

Programme Coordination:

Mr. Jelle U. Hielkema, Senior Remote Sensing Officer, FAO

Contacts:

Dr. He Changchui, Chief, Environment and Natural Resources Service, Research, Extension and Training Division, Sustainable Development Department, FAO,

Viale delle Terme di Caracalla, 00100 Roma, ITALY,

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Dr. Sergio Camacho, Chief, Committee Services and Research Section, Office for Outer Space Affairs, United Nations Office at Vienna, Wagramerstrasse 5, A-1400, Vienna, AUSTRIA,

tel: +43 1 26060 4957, fax: +43 1 26060 5830,

e-mail: Sergio.Camacho@oosa.un.org

[3] CGMS Workshop on Meteorological Satellite System

22 July, Thursday: 14:30-18:00

Hall G / Austria Center

The workshop will discuss the role of the Coordination Group for Meteorological Satellites (CGMS) in promoting world-wide meteorological satellite data and services. Examples of different regional environmental data handling systems and their coordination will be presented. The workshop will also examine perspectives of the future expansion of the regional and global weather monitoring systems.

Coordinator:

European Organization for the Exploitation of Meteorological Satellites (EUMETSAT)

Chair:

Dr. D. E. Hinsman, WMO

Rapporteur:

Mr. P. Counet, EUMETSAT

Speakers:

Dr. Tillmann Mohr, Director, EUMETSAT

"Introductory Statement by CGMS Secretariat"

Dr. D. James Baker, Administrator, NOAA (U.S.),

"Cooperation involving the United States national polar-orbiting operational Environment Satellite System"

Dr. D. E. Hinsman, Senior Scientific Officer, WMO

"The role of CGMS: satellite meteorology from a global user perspective"

Mr. Ewans A. Mukolwe, Director of the Kenyan MET Department (Kenya),

"Use of EUMETSAT satellite data by the African user community"

Messrs. Fang Zongyi and Xi Jianping, China Meteorological Administration (China),

"The application of meteorological satellite data in disaster monitoring in China"

Dr. H. V. Gupta, Director, Satellite Meteorology Division, Indian Meteorological Department (India),

"Use of INSAT meteorological data for regional and global weather forecasting"

Mr. Sato, Head of Meteorological Satellite Planning, Japan Meteorological Agency (Japan),

"Use of GMS satellite data in the asia pacific region and future plan distribution of MTSAT satellite data"

Dr. James Purdom, Director, NESDIS Office of Research and Applications (U.S.),

"Expanded use of satellite data in Costa Rica and Barbados"

Mr. V. Ferberov, Division Chief, Rozhydromet and Prof. Dr. Uspensky, SRC Planeta, Senior Scientific Officer (Russian Federation),

"The application of meteorological satellite data and derived products in the Russian Service of hydrometeorology and environmental monitoring"

Contact:

Mr. Paul Counet, International Relations, EUMETSAT,

Postfach 10 05 55, D-64205, Darmstadt, GERMANY,

tel:+49 61 51 807 7, fax: +49 61 51 807 555

[4] Workshop on "Blue Planet, Green Planet"

23 July, Friday: 9:00-12:00, 14:30-17:30

Halls I+K / Austria Center

The major challenge in global change research in the coming decade will be to identify ways and means to improve the predictability of large and scale changes on the surface of our planet, due to natural fluctuations in climate and brought about by the continuous accelerating human activities. Today space technology has reached such a level of sophistication that even the very subtle changes in the oceanic circulation (Blue Planet) and long-term changes on the land surface (Green Planet) can now be documented with high precision. The main objective, therefore, is to apprise the global community of the availability of these data and on how they can be used for global, regional and local studies of our planet around the world.

Coordinator:

Centre National d'Etudes Spatiales (CNES), (France)

Programme:Morning session:

Chair: Dr. Gérard Begni, Medias France (France)

Speakers:

Dr. Gérard Begni, Medias France (France),

"Opening remarks"

Dr. Jean-François Minster, CNRS-INSU (France),

"Global ocean circulation from Topex-Poseidon"

Dr. Peter Liss, University of South Anglia, School of Environment Sciences (U.K.),

"Ocean biogeochemical cycles and carbon budget"

Dr. Masanobu Shimada, Earth Observation Research Center (Japan),

"Ocean Color and Temperature Scanner data utilization"

Dr. Oleg. Kopelevitch, Russian Academy of Sciences, (Russian Federation)

"Coastal region studies from satellites"

Dr. Hassan Arid, Centre Royal de Télédétection Spatiale (CRTS) (Morocco),

"Contribution of space observation to improve the understanding of marine phenomena in Morocco"

Dr. Pierre-Yves Deschamps, Laboratoire d'Optique
Atmosphérique (France),
"Use of Polder/Adeos"

Afternoon session:

Chair: Dr. Ichtiague Rasool, CNES (France)

Speakers:

Dr. Ichtiague Rasool, CNES (France),

"Opening remarks"

Dr. Jean-Louis Fellous, CNES (France),

"Use of Spot 4/vegetation for global biospheric studies"

Dr. Marc Leroy, Cesium (France),

"Observing the dynamics of the biosphere from space"

Dr. David Skole, Michigan State University (U.S.)

"Tropical deforestation and regrowth assessments"

Dr. Eric Lambin, Université Catholique de Louvain (Belgium),

"Land use and land cover changes from satellites"

Dr. Houcine Khatelli, Institut des Régions Arides (Tunisia)

"Studies of desertification in Southern Mediterranean Region"

Contact:

Mr. Michel Laffaiteur, International Relations, CNES,
2, Place Maurice Quentin, 75039 Paris CEDEX 01, FRANCE,
tel: +33 1 44 76 75 29, fax: +33 1 44 76 78 49,
e-mail: Michel.Laffaiteur@cnes.fr

Item 8. Status and applications of space science and technology

[5] Workshop on Resource Mapping from Space

22 July, Thursday: 9:00-12:00

Hall G / Austria Center

The workshop will cover space sensors for Earth observation and their applications for land use/land cover studies, including high resolution electro-optical imagery, hyperspectral and radar from space. The workshop will describe the characteristics of these systems and their potential for land cover mapping. Methods of data fusion and its benefits for terrain analysis will also be discussed.

Coordinator:

International Society for Photogrammetry and Remote Sensing (ISPRS)

Chairs:

Prof. John Trinder, University of New South Wales (Australia),

Prof. Klaas Jan Beek, ITC (the Netherlands)

Speakers:

Prof. A. Skidmore, ITC (the Netherlands)

"Vegetation, rangeland, degradation, radar/tropical forest management monitoring"

Prof. G. Konecny University of Hannover, (Germany),

"Remote sensing technology"

Dr. Lucien Wald, Ecole des Mines de Paris (France),

"Data fusion for a better exploitation of data in environment and Earth observation sciences"

Dr. D. P. Rao, NRSA, (India),

"Sustainable development and remote sensing"

Mr. D. Wim G.M. Bastiaanssen, IWMI (the Netherlands),

"Monitoring water resources and agro-ecosystem productivity from space"

Mr. Lennart Olson, Lund University (Sweden),

"Monitoring from space of global vegetation and land use change: recent advances and imminent possibilities"

Contact:

Prof. John C. Trinder, Secretary-General, ISPRS;
and Professor and Head, School of Geomatic Engineering,
University of New South Wales, Sydney NSW 2052 AUSTRALIA;
fax: +61 2 9 313 7493; e-mail: J.Trinder@unsw.edu.au

[6] Workshop on Disaster Management

22 July, Thursday: 9:00-12:00

Halls I+K / Austria Center

The aim of the workshop is to illustrate the benefits of using space techniques for disaster mitigation. The workshop will focus on issues linked to international cooperation, pilot projects and access to relevant information and techniques, arising from experience gathered in cases of forest fires, volcanoes, oil spills and floods.

Coordinators:

European Space Agency (ESA)

National Space Development Agency of Japan (NASDA)

Co-Chairs:

Mr. Jean-Jacques Dordain, Director, Strategy and Business Development, ESA;

Mr. T. Inada, Director, Earth Observation Planning Department, Office of Earth Observation Systems, NASDA (Japan)

Rapporteurs:

Mr. M. Ichihashi, Senior Engineer, Earth Observation Planning Department, Office of Earth Observation Systems, NASDA (Japan);

Mr. F. Nordlund, International Relations, ESA

Speakers

Mr. Jean Jacques Dordain, ESA and Mr. T. Inada, NASDA (Japan),
"Opening remarks"

Prof. Dr. F. Siegert, Department of Biology, University of Munich (Germany) and Prof. M. Nakayama, Tokyo University of Agriculture and Technology (Japan),

"ES/NASDA pilot project on forest fires in Indonesia"

Dr. O. Arino, ESA, and Dr. H. Öttl, Deutsches Zentrum für Luft- und Raumfahrt e.v. (DLR),

"The case of forest fires"

CNES (France) and National Remote Sensing Centre of China (NRSCC) (China),

"The case of floods" (speakers to be announced)

Mr. G. Duchossois, ESA, and P. Bally/F. Axes, Spot Image,

"The case of oil spills"

Dr. M. Shimada, NASDA,

"The case of volcanoes"

Ms. Helen Wood, National Oceanic & Atmospheric Administration (NOAA) (U.S.),

"IGOS initiative on disaster management"

Mr. D. Sagar, International Mobile Satellite Organization (Inmarsat),

"Communication services to disaster scenes"

Contact:

Mr. Guy Duchossois, Head, Earth Observation Mission Management Office, ESA,

8-10 rue Mario Nikis, 75738 Paris Cedex 15, FRANCE,
tel: +33 1 53 29 76 54, fax: +33 1 53 69 75 60

[7] Workshop on Remote Sensing for the Detection, Monitoring and Mitigation of Natural Disasters

22 July, Thursday: 14:30-17:30
Halls I+K / Austria Center

The workshop will focus on the role of remote sensing in detection, monitoring and mitigation of natural disasters, in particular floods, typhoons and hurricanes, land degradation and erosion, forest fires and volcanoes, desertification and drought monitoring, and pollution monitoring. Discussions will be held on problems related to the different spatial and time scales and the different geophysical parameters monitored. Emphasis will be on the analytical and critical evaluation of the present status and perspectives for future progress in this field.

Coordinators:
 ISPRS and European Association of Remote Sensing Laboratories (EARSel)

Co-Chairs:
 Prof. Heinz Rüther, UCT (South Africa)
 Dr. Lucien Wald, Ecole des Mines de Paris (France)

Speakers:
 Prof. Preben Gudmandsen, TU (Denmark),
 "Natural disasters: remote sensing capabilities and applications in a wide context"

Dr. François Cauneau, Ecole des Mines de Paris (France),
 "Monitoring oil spills from space: state of the art and perspectives"

Mr. Jerome Béquignon, ESA,
 "Space technology and earthquake hazard management"

Mr. Robert Missotten, UNESCO,
 "Natural hazards of geological origin: erosion, land degradation/desertification, volcanoes"

Prof. Dietrich Bannert, BGR (Germany),
 "Natural hazards of geological origin: erosion, land degradation/desertification, volcanoes - the UNESCO/IUGS Geological Application of Remote Sensing (GARS) Programme"

Dr. Mohammed Ait Belaid, CRTS (Morocco),
 "Remote sensing systems for drought & desertification monitoring"

Dr. Adam Lisenbarth, IGIK (Poland),
 "Photogrammetry and remote sensing in monitoring, prediction and prevention of environmental disasters"

Dr. Vern Singhroy, Canada Centre for Remote Sensing (CCRS) (Canada),
 "Remote sensing techniques for mapping and monitoring of pollution and hazardous waste sites"

Ms. Helen Wood, NOAA (U.S.),
 "Operational use of environmental satellites data for hazard applications"

Contact:
 Mr. Lawrence W. Fritz, President, ISPRS, c/o Lockheed Martin Corp., 14833 Lake Terrace, Rockville, MD 20853-3632, U.S.A., fax: +1 301 460 0021, e-mail: lwfritz@erols.com

[8] Seminar on Environment and Remote Sensing for Sustainable Development

23 July, Friday: 9:00-12:00
Hall G / Austria Center

The seminar will focus on the application of space remote sensing technology to issues of importance to developing countries, such as agriculture, infrastructure, environment, decision-making, from the perspectives of governments and private space technology providers, as well as from regional representatives of the user community.

Coordinators:
 ISPRS, NASA

Co-Chairs:
 Mr. Lawrence Fritz, Lockheed Martin (U.S.),
 Mr. Alex Tuyahov, Manager of NASA Earth Science Applications and Research Program.

Panel discussion will be co-chaired by Prof. Ray Harris, UCL (U.K.) and Dr. Charles Hutchinson, University of Arizona (U.S.)

Speakers:
 Dr. Ghassem R. Asrar, NASA (U.S.)
 Dr. Krishnaswamy Kasturirangan, NRS (India)
 Mr. Guy Duchossois, ESA
 Mr. Marcio Barbosa, Brazilian Space Research Institute (INPE) (Brazil)
 Dr. Takashi Moriyama, NASDA (Japan)
 Mr. John Neer, Space Imaging (U.S.)
 Mr. Jelle Hielkema, FAO
 Mr. Bob Kakuyo, UNEP

Contact:
 Mr. Lawrence W. Fritz, President, ISPRS, c/o Lockheed Martin Corp., 14833 Lake Terrace, Rockville, MD 20853-3632, U.S.A., fax: +1 301 460 0021, e-mail: lwfritz@erols.com

[9] Seminar on Global Health

23 July, Friday: 14:30-17:30
Hall G / Austria Center

This seminar will provide information on the activities of the Center for Health Applications of Aerospace Related Technologies (CHAART), which has been established by the NASA's Life Sciences Division to provide technical support for interagency activities as well as outreach and training in the use of remote sensing technologies to studies of infectious disease. Through a series of NASA sponsored workshops, the user community has identified the lack of disease focused training as one of the major obstacles to implementing these technologies into medical research, surveillance and control programmes on a global scale. Past participants in CHAART's training will discuss the opportunities and obstacles they have faced in developing local remote sensing applications capability.

Coordinators:
 NASA and World Health Organization (WHO)

Chair:
 Dr. Byron Wood, CHAART, NASA Ames Research Center (U.S.)

Rapporteur:
 Dr. Louisa Beck, CHAART, NASA Ames Research Center (U.S.)

Speakers:

Dr. Byron Wood, CHAART, NASA Ames Research Center (U.S.),
"Introduction and symposium overview"

Dr. Steven Wayling,

"WHO training in geographic information systems for research and control of tropical diseases (WHO/TDR Special Programme for Research and Training in Tropical Diseases)"

Dr. Mel Averner,

"NASA training center for health applications of aerospace related technologies (NASA Gravitational Biology and Ecology Program)"

Panel discussion: speakers

Dr. Gustavo Bretas, Institute of Social Medicine, University do Estado do Rio de Janeiro (Brazil)

Dr. Roberto Barrera, Instituto de Zoologia Tropical, Universidad Central de Venezuela (Venezuela)

Dr. Magaran Bagayoko, Tropical Medical Research Center (Mali)

Dr. Ali Hassan, Division of Environmental Studies & Land Use, National Authority for Remote Sensing & Space Sciences (Egypt)

Dr. Luo Dapeng, Yunnan Institute of Malaria Control (China)

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e-mail: lynn.cline@hq.nasa.gov

[10] Round Table on Tele-education

23 July, Friday: 14:30-17:30

Hall H / Austria Center

This round table will assess the present situation and perspectives of future development in the field of tele-education. The panelists will discuss the potential new role of the teacher as an educational strategist, a facilitator rather than lecturer, one able to help students understand the wider world around them. Emphasis will be on a major potential of tele-education in fields such as teacher training, and particularly in rural areas and in some developing countries, where teachers are poorly trained due to a lack of opportunity. The panelists will describe or demonstrate varying approaches being taken in different parts of the world, sharing their knowledge of what works and what does not and how this technology will benefit the developing world and bring information affluence to those who most need it.

Coordinator:

United Nations Office for Outer Space Affairs

Chair:

Dr. Jonathan Galloway, Department of Politics, Lake Forest College (U.S.)

Rapporteur:

Mr. Kiran Karnik, Managing Director, Discovery Communications India (India)

Speakers:

Mr. Reinhard Keune, Friedrich-Ebert Foundation (Germany),
"New trends before the International Programme for the Development of Communications (IPDC) Council: will tele-education be a priority?"

Dr. Andrea Kavanaugh, Director, Research of the Blacksburg Electronic Village (U.S.)

Dr. S. Ranganathan, Director, Centre for Space Research, Royal Military College (Canada),

"An Internet-based course in spacecraft systems design"

Mr. Kiran Karnik, Managing Director, Discovery Communications India (India)

Dr. Ing. Aman Mostavan Dea, IPM, Laboratory of Heliotechnology, KBK fisika Bangunan, Department of Engineering Physics, Institute of Technology Bandung (Indonesia)

Ms. Hélène Mignot, Alcatel (France),
"MEDSAT Programme"

Dr. Jim Stevenson, President, Educational Broadcasting Services Trust (U.K.),

Dr. Melanie Oliviero, Macarthur Foundation (U.S.)

Contact:

Ms. Lee Love, World Broadcast News,
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[11] Workshop on the Global Navigation Satellite Systems

26 July, Monday: 9:00-12:00

Halls I+K / Austria Center

Coordinator:

ESA / European GNSS Secretariat

Programme:Opening addresses: speakers

Mr. V. Kotelnikov, United Nations Office for Outer Space Affairs (invited)

Representative of the Austrian Ministry for Transport and Science (invited)

Mr. M. Ruete, Directorate General for Transport, European Commission

Mr. C. Mastracci, Director of Applications, ESA

Session I:Chair:

Mr. M. Ruete, Director - DGVII (Transport), European Tripartite Group (ESA, European Commission and Eurocontrol)

Speakers:

Mr. Luc Tytgat, European Commission,
"From EGNOS to GALILEO: Europe's contribution to a Global Navigation Satellite System"

Mr. Alex Steciw, ESA,
"GNSS technical architectures"

Prof. Frans von der Dunk, University of Leiden, (the Netherlands)
"GNSS certification and liability issues"

Mr. Roger McKinlay, RACAL Avionics,
"Public-private partnerships: the European industrial perspective on GNSS"

Representative from Dornier Satellitensysteme GmbH (Germany),
"PPP structures and their application to Galileo" (invited)

Session IICo-Chairs:

Mr. C. Mastracci, Director of Applications, ESA;
and a representative from the Russian Space Agency (RKA)

Speakers:

Speaker from RKA, "GLONASS developments" (invited)

Speaker from the US Department of State,
"Current status of US Developments in GPS" (invited)

Mr. Vladimir Zubkov, ICAO,

"Implementation of space technology in aviation - the need for inter-regional cooperation"

Richard Dalbello, ICO Global Communications and a speaker from the American Institute of Aeronautics and Astronautics (AIAA), (to be announced),

"Conclusions from workshop on GNSS entitled 'Fostering International Cooperation and Benefits to World-Wide Users'"

"Inter-regional Cooperation Initiatives (including interventions on South America, Central and Eastern Europe, etc.) (speaker to be announced)"

Contacts:

Mr. Giorgio Solari, Coordinator of the Tripartite Group;

Ms. Fiona McFadden, European GNSS Secretariat,

tel: +32 2 743 30 81; fax: +32 2 743 30 81;

and Mr. Karl Bergquist, ESA,

8-10 rue Mario Nikis, 75738 Paris Cedex 15, FRANCE,

tel: +33 1 53 29 76 54, fax: +33 1 53 69 75 60

[12] Workshop on Telemedicine

26 July, Monday: 14:30-17:30

UN/UNIDO Boardroom / Vienna International Centre

The Workshop will examine current developments and applications of telemedicine with special focus on international collaboration and harmonization, including G7/8 Global Healthcare Applications Project, as well as national programs and programmes of Inmarsat, ITU, WHO and ESA. The programme of the workshop comprises presentations, live demonstrations and round table discussion related to cardiac consultation and diagnosis via satellite networks, medicine tele-education, delivery of healthcare and Open Health Telematics Platform. Special emphasis will be given to cooperation with and support to developing countries and the requirements for global services.

Coordinators:

DLR (Germany); and Agenzia Spaziale Italiana (ASI), (Italy)

Chair:

Dr. Dittmar Padeken, DLR (Germany)

Co-chair:

Dr. Andrea Mason, Telbios (Italy)

Dr. Lyall Higginson, Univ. of Ottawa Heart Inst. (Canada)

Dr. Coster, Vienna General Hospital (Austria)

Dr. Wilbert Keon, University of Ottawa (Canada),

"Remote cardiac consultation and diagnosis"

Prof. Dr. Medvedev, Moscow State University (Russian Federation)

"Medicine tele-education programme"

Dr. Andrea Mason, Telbios (Italy),

"Satellite telemedicine for improving the delivery of health care"

Mr. David Sagar, Inmarsat,

"Inmarsat telemedicine projects"

Dr. Dittmar Padeken, DLR (Germany),

"Open Health Telematics Platform and local/global applications"

Dr. Roberto Sistero, CONAE (Argentina)

Mr. Helmut Duwe, Inst. of Aerospace Medicine, DLR (Germany)

Mr. Luis Beck, Inst. of Aerospace Medicine, DLR (Germany)

Drs. G. Dietzel and A. Lacroix, G7/8 GHAP

Dr. S. Mandil, WHO

Prof. Aleksandrovsky, Dean of the Medical Subfaculty of

Mordovia Republic University (Russian Federation)

Academician Vladimirov, Russian State Med. University (Russian Federation)

Prof. Roshevsky, Director of State Institute for Ecological Medicine (Russian Federation)

Prof. Medvedev, Dean of Medical Faculty of MSU (Russian Federation)

Dr. G. Rossignol, Midjan Group (France)

Prof. C. Azzolini, Scientific Institute H San Raffaele, (Italy)

Mr. F. Feliciani, ESA/ESTEC

Contacts:

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e-mail: mason.adrea@hsr.it

Item 9. Benefits of basic space science and capacity building

[13] Special Environmental Symposium, "Preserving the Astronomical Sky"

12-16 July, Mon-Fri, 9:00-12:00,

14:30-17:30 each day

Conference Room I / Vienna International Centre

(ATTENTION: Symposium will meet in two workshops on 15 July Thursday, see the time and place indicated below.)

The symposium will develop recommendations for the controlled development of space activities which would have impacts on the conduct of astronomical research, in order to ensure the continued co-existence of scientific and other activities in space and on the ground. Topics of discussion will include the impact of space debris on ground and space-based astronomical observations, preservation of scientifically important radio frequency bands, the need for international agreements regulating the deployment of strongly luminous objects in space, such as space art, energy generating experiments and space advertisements, and the societal impact of ground-based light pollution.

Coordinator: International Astronomical Union (IAU)

Co-organizers:

Committee on Space Research (COSPAR) and URSI

Chair:

Prof. W. T. Sullivan III, University of Washington, Seattle, U.S.A.

Session on "Threats to Optical Astronomy"

12 July, Monday; 9:00-12:00

Drs. H. Haubold, J. Andersen, W. Sullivan,

"Welcome and overview"

Dr. D. Crawford (U.S.),

"Light pollution: changing the situation to everyone's advantage"

Dr. T. Ferris (U.S.),

"Broader environmental aspects of loss of the night"

Dr. W. Sullivan (U.S.),

"Nighttime satellite views of Earth"
Dr. M. Smith (Chile),
 "The value of ground-based astronomy"
Dr. R. Giacconi (Germany) (invited),
 "The effect of light pollution on astronomy's largest facilities"

Dr. P. Murdin (U.K.),
 "Space art and advertising"

12 July, Monday; 14:30-17:30

Dr. J. Andersen (Denmark),
 "History and present status of IAU actions"
Dr. D. McNally (U.K.),
 "International actions to combat adverse environmental impacts to astronomy"
Dr. J. Percy (Canada),
 "Public education to preserve the astronomical windows"
Dr. R. West (Germany),
 "Communicating the Issues to the media"
Dr. R. Ekers (Australia),
 "The threat to radio astronomy from manmade interference"
Dr. C. Hermann (Austria),
 "The CIE (Commission Internationale de l'Eclairage): what it is and how it works"
Dr. D. Schreuder (The Netherlands),
 "Recent CIE activities on minimizing interference to optical observatories"
Dr. N. Pollard,
 "Activities of the CIE Committee on Obstrusive Lighting"

13 July, Tuesday; 9:00-12:00

(speaker to be announced)
 "Technical development in lamps and fixtures"
Dr. C. Luginbuhl (U.S.),
 "Why astronomy needs low-pressure sodium street lighting"
Dr. S. Isobe (Japan),
 "Educating the public about light pollution"
Drs. J. Vandewalle, D. Knapen, T. Polfliet, H. Dejonghe (Belgium),
 "Methods and results of estimating light pollution in Flanders"
Dr. P. Cinzano (Italy),
 "Technical issues in current light pollution studies in Italy"
Dr. D. Davis (U.S.),
 "Local lighting ordinances as an effective tool to limit light pollution"
Dr. M. Metaxa (Greece),
 "Light pollution education and action in Greece"
Drs. M. Di Sora, Zitelli, F. Ferrini (Italy),
 "Technical and judicial problems concerning regulations on light pollution in Italy"

Session on "Threats to Radio Astronomy"

13 July, Tuesday; 14:30-15:10

Dr. J. Cohen (U.K.),
 "Overview"
Dr. B. Robinson (Australia),
 "Forty years of radio astronomy and international telecommunications regulations"
Dr. J. Evans (U.S.; TBC),
 "The history and present status of satellite radio technology"
Dr. P. VandenBout (U.S.),
 "Radio astronomy in the age of wireless communications"
Dr. R. Booth (Sweden) or Dr. S. Guilloteau (France),
 "ALMA (Atacama Large Millimetre Array, Chile) and other planned major radio telescopes"
Dr. W. Sullivan (U.S.),
 "The cultural value of radio astronomy"

Dr. W. Baan (The Netherlands),
 "Regulatory approaches to protecting radio astronomy"
Dr. K. Ruf (Germany),
 "World Radio Conference, WRC-2000"

14 July, Wednesday; 9:00-12:00

Dr. T. Gergeley (U.S.),
 "Emerging threats to radio astronomy"
Dr. T. Spoelstra (The Netherlands),
 "Frequency management and regulation in Europe"
Dr. G. Swarup (India),
 "Preserving radio astronomy in developing nations"
Dr. R. Fisher (U.S.),
 "Electronic techniques for coping with RFI"
Dr. W. van Driel (France),
 "RFI monitoring and databases"
Dr. V. Altunin (U.S.),
 "Protecting space-based radio astronomy"
Dr. Masatoshi Ohishi (Japan, TBC),
 "Millimetre-wave astronomy protection"

14 July, Wednesday; 14:30-17:30

Dr. H. Butcher,
 "Steps to establish international radio-quiet zones"
Drs. B. Peng, R. Strom, R. Nan (China),
 "A potential site for the world's largest single dish, FAST"
Drs. I. Fejes, T. Borza (Hungary),
 "GPS satellite interference in Hungary"

Space Debris Issues

14 July, Wednesday; 15:10-17:00

Dr. W. Flury (Germany),
 "The space debris environment: past and present"
Dr. D. McNally (U.K.),
 "Impact of space debris on ground-based astronomy"
Dr. L. Perek (Czech Republic; TBC),
 "UN discussion on space debris"

Radio Workshop:

15 July, Thursday, 9:00-12:30 and 14:00-17:30

Conference Room I / Vienna International Centre

Dr. H. Butcher, WRC/ITU,
 "Regulatory strategies other than WRC/ITU"
Dr. K. Ruf (Germany),
 "Resolution to WRC-2000"
Dr. R. Finley,
 "Public awareness of radio interference"
Dr. R. Fisher (U.S.),
 "Technical methods and strategies for RFI mitigation"
Dr. W. van Driel (France),
 "RFI databases"
Dr. W. Baan (The Netherlands),
 "Draft observations, recommendations and proposals"

Optical Workshop:

15 July, Thursday, 9:00-12:30 and 14:00-17:30

Conference Room II / Vienna International Centre

Dr. D. McNally (U.K.),
 "International action regarding lights in space"
Dr. N. Pollard,
 "International action regarding ground-based lights"
Dr. D. Crawford (U.S.),
 "Strategies for local and national action"
Dr. J. Percy (Canada),
 "Public awareness of threats to optical astronomy"
Dr. M. Smith (Chile),

"Technical and organizational issues in monitoring light pollution"

Dr. J. Andersen (Denmark),

"Draft observations, recommendations and proposals"

Summary of the Symposium

16 July, Friday, 9:00-12:30; 14:00-17:00

Contact:

Prof. W. T. Sullivan III, Department of Astronomy,
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[14] Special Workshop on Education

20-21 July, Tuesday-Wednesday,

9:00-12:00, 14:30-17:30 each day

and 23 July, Friday, 9:00-12:00

Hall H/Austria Center

The workshop will develop recommendations for better-coordinated efforts to promote education in basic space science in the developing world.

Coordinator:

IAU, Committee on Space Research (COSPAR)

Chair:

Dr. D. Wentzel, Department of Astronomy, University of Maryland, U.S.A.

20 July, Tuesday, 9:00-12:00

Session I: Introduction

Dr. J. Andersen (Denmark),

"Why astronomy and basic space science?"

Dr. Mazlan Othman (Malaysia),

"On the introduction of science into a country with no scientific tradition"

Session II: Existing Organizations for International Education in Basic Space Science and Astronomy

Dr. J. Fierro (Mexico),

"International Astronomical Union, Commission on Education in Astronomy and Working Group for the Worldwide Development of Astronomy"

Dr. M. Gerbaldi,

"International schools for young astronomers"

Dr. D. G. Wentzel,

"Project: teaching for astronomy development"

Dr. S. Isobe,

"The Asian-Pacific regional meetings in astronomy and the journal teaching of astronomy in Asian-Pacific region"

Dr. P. Martinez (South Africa),

"Working Group on Space Sciences in Africa"

Dr. F. R. Querci (France)

Dr. M. Machado (Argentina),

"Latin-American Space Physics Associations"

Dr. H. Haubold, UN, and Dr. W. Wamsteker (Spain),

"UN/ESA Workshops on Basic Space Sciences and the World Space Observatory"

20 July, Tuesday, 14:30-17:30

Session III: Existing Organizations (continued)

Dr. Tania Maria Sausen (Brazil) and Dr. G. S. Agarwal (India),

"UN Centres for Space Science and Technology Education"

Dr. P. Willmore (U.K.),

"Brief report on other organizations: COSPAR Panel on Space Research in Developing Countries"

Dr. F. Ferrini (Italy),

"Project for Mediterranean astronomy"

Session IV: Examples of Development

Dr. M. Machado (Argentina),

"Argentina"

Dr. Bmabang Hidayat (Indonesia),

"Indonesia: tapping meager resources for science"

21 July, Wednesday, 9:00-12:00

Session V: Science for the Public (incl. extended discussion and drafting of a resolution)

Dr. J. Fierro (Mexico),

"Science for the public in developing countries"

Session VI: Science for the Schools, Low-Tech (incl. extended discussion and drafting of a resolution)

Dr. M. Gerbaldi (France),

"Astronomy and teacher training in the French schools"

Dr. Mazlan Othman (Malaysia),

"Astronomy in the Malaysian schools"

Dr. J. Percy (Canada),

"Effective learning and teaching in astronomy"

21 July, Wednesday, 14:30-17:30

Session VII: Science for the Schools, High-Tech (incl. extended discussion and drafting of a resolution)

Dr. I. Hawkins (U.S.),

"Using space science data in secondary schools: benefits and challenges"

Dr. J. Percy (Canada),

"Hands-on Astrophysics and beyond"

Session VIII: Interdisciplinary Nature of Astronomy and Basic Space Sciences

Dr. D. McNally (U.K.),

"An outline of what may be 'interdisciplinary'"

Dr. M. J. Rycroft (France),

"International Space University"

Dr. M. I. Piso (Romania),

"A network approach to multi-disciplinary"

23 July, Friday, 9:00-12:00

Session IX: University Science Strategy (incl. extended discussion and drafting of a resolution)

Dr. Bambang Hidayat (Indonesia),

"University research and the wealth of the nation"

Dr. D. G. Wentzel (U.S.),

"National strategies for science development"

Dr. B. L. Deekshatulu (India),

"Strategies for development based on international organizations"

Session X: Resolutions

Dr. J. Fierro (Mexico),

"Public science"

Dr. J. Percy (Canada),

"Schools"

Dr. M. Rycroft (France),

"Interdisciplinary nature"

Dr. J. Andersen (Denmark),

"Strategies for university science development" and

"Concluding remarks"

Contact:

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[15] Round Table on Integration of Earth Observation into Secondary Education
21 July, Wednesday: 14:30-17:30
Conference Room III / Vienna International Centre

The round table will aim to increase the awareness of the efforts of members of the European Association for International Space Year (EURISY) to enhance the understanding of benefits of space technology at schools. Emphasis will be on the advantages of including Earth observation and remote sensing within the curricula of secondary schools in European countries, and the round table will strive to increase the awareness of policy-makers, educators and managers from industry of such advantages. Follow-up activities to the recommendations of the EURISY Seminar on "Integration of Earth Observation into Secondary Education" in May 1998 will be presented.

Coordinator: EURISY

Co-chairmen:

Prof. Hubert Curien, President, EURISY

Mr. Rolf Skår, Managing Director, Norwegian Space Centre

Speakers:

Prof. Hubert Curien, President, EURISY, and

Mr. N. Jasentuliyana, Director, Office for Outer Space Affairs, United Nations, "

Opening/Welcome addresses"

(speaker to be announced)

"Need of space technologies and data integration in the educational context"

Mr. Antonio Rodotà, Director General, ESA,

"Aims of EURISY's activities towards European youth"

Mr. Wolfgang Eder, Director of Earth Sciences, UNESCO,

"Results of World Conference on Higher Education (1998) and World Conference on Science (1999)"

Mr. Chabouni, Secretariat of State for Research, (Tunisia),

"South Mediterranean educational issues"

Prof. François Marchessou, Director of OAVUP (France),

"Concrete example of conclusions and follow-up to Frascati seminar"

Mr. Claude Goumy, Vice-President of Matra Hautes Technologies,

"Industrial support and supply of educational tools"

(speaker to be announced)

"Students' point of view and needs"

Contact:

Ms. Catherine Simon, Secretary General, EURISY,

Résidence Seine Zola, 17/21 rue de Javel, 75015 Paris, FRANCE,

tel: +33 1 45 75 00 07, fax: +33 1 45 79 90 08

[16] Symposium on Recent Progress and Future Plans for Exploration of the Solar System
22 July, Thursday: 9:00-12:00
Hall H / Austria Center

The symposium will address recent progress in and future plans for exploration of the solar system by use of spacecraft, with the emphasis on international cooperation. The symposium will also discuss the means to share the outcomes from advanced exploration with the younger generation and the general public and to encourage the involvement of developing countries in solar system exploration.

Coordinator: COSPAR

Chairman:

Prof. Atsuhiko Nishida, Institute of Space and Astronautical Science (ISAS) (Japan)

Speakers:

Dr. M. Coradini, ESA,

"ESA programs"

Dr. A. Nishida, ISAS (Japan),

"Japanese programs"

Dr. A. Galeev, Russian Space Research Institute, (IKI) (Russian Federation),

"Russian programs"

Dr. T. V. Johnson, Jet Propulsion Laboratory (JPL)/NASA (U.S.),

"US programs"

Dr. V. Manno, International Space Science Institute (ISSI),

"International coordination by the IACG"

Dr. H. Rickman, Uppsala University (Sweden),

"Near Earth objects"

Contact:

Prof. Atsuhiko Nishida, Director-General,

Institute for Space and Astronautical Science (ISAS),

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e-mail: nishida@gtl.isas.ac.jp

[17] Symposium on the Contribution of Space Techniques to the Exploration of the Universe
22 July, Thursday: 14:30-18:00
Hall H / Austria Center

The symposium will address the historical background and highlight the vital contributions of space techniques to some of the key scientific topics, ranging from cosmology and the cosmic microwave background radiation to the serendipitous discoveries in high-energy astrophysics. Impressive results in the optical window from space will also be presented. The symposium will address challenges for future technological developments for space explorations, including the prospects for space interferometry.

Coordinator: COSPAR

Chair:

Prof. J. L. Culhane, University College London, Mullard Space Laboratory (U.K.)

Rapporteur:

Dr. W. Hermsen, Space Research Organization Netherlands (the Netherlands)

Speakers:

Prof. J. L. Culhane, University College London, Mullard Space Laboratory (U.K.),

"Opening remarks"

Prof. G. P. Efstathiou, Cambridge University (U.K.)

"Revolutionizing cosmology by observing the cosmic microwave background"

Prof. J. A. M. Bleeker, Space Research Organization Netherlands (the Netherlands),

"X/Gamma-ray astronomy: probing the energetic universe"

Dr. H. S. Stockman, Space Telescope Science Institute (U.S.),

"The Optical window from space by the Hubble Space Telescope and the NGST"

Dr. F. M. Naderi, Program Manager of Origins Program, Jet Propulsion Laboratory, NASA California Institute of Technology (U.S.),

"The NASA's Origins Program: the search for our cosmic roots"

Contact:

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Prof. J. L. Culhane, University College London, Mullard Space Science Laboratory, Holmbury, St. Mary, Dorking, Surrey RH5 6NT, UNITED KINGDOM, tel: +44 1483 274 111, fax: +44 1483 278 312, e-mail: jlc@mssl.ucl.ac.uk

[18] Special Presentation on the Origin of Life and Its Distribution in the Solar System

23 July, Friday: 17:30-18:30

Halls I+K / Austria Center

Life, defined as a chemical system capable to transfer its molecular information via self-replication and to evolve, probably originated on Earth from the evolution of organic molecules in liquid water. A large fraction of prebiotic organic molecules might have been brought by extraterrestrial meteoritic and cometary dust grains decelerated by the atmosphere. The possibility that life might have evolved on early Mars when water existed on the surface marks it as a prime candidate in a search for bacterial life beyond the Earth. Europa has an icy carapace. However, cryovolcanic flows at the surface point to a possible water subsurface region which might harbour a basic life form. The atmosphere and surface components of Titan is also of interest to exobiology for the insight into a hydrocarbon-rich living world.

Coordinator: CNES

Chair: Dr. André Brack, Director of Research, Centre National de la Recherche Scientifique (France)

Contact:

Mr. Michel Laffaiteur, International Relations, CNES, 2, Place Maurice Quentin, 75039 Paris CEDEX 01, FRANCE, tel: +33 1 44 76 75 29, fax: +33 1 44 76 78 49, e-mail: Michel.Laffaiteur@cnes.fr

[19] Workshop on Space Debris

26 July, Monday: 9:00-13:30

Hall H / Austria Center

The workshop will provide information on the current status of our knowledge and the extent of the space debris problem, applied mitigation measures, activities of the professional societies and the Inter-Agency Space Debris Coordination Committee (IADC), and discussions at the Scientific and Technical Subcommittee of the United Nations Committee on the Peaceful Uses of Outer Space. The workshop includes a round table discussion on the future directions of space debris research.

Coordinator:

Subcommittee on Space Debris, International Academy of Astronautics (IAA)

Chairs:

Prof. W. Flury, Chairman, IAA Subcommittee on Space Debris

Mr. J.-M. Contant, Secretary General IAA

Rapporteurs:

Messrs. L. Anselmo and R. Crowther

Speakers:

Prof. J. P. Loftus, NASA/Johnson Space Center (JSC) (U.S.),

"What do we know about the space debris environment; sources of space debris; how is the information obtained; effects of the space debris environment on space systems; hazards in space and on the ground"

Prof. W. Flury, Mission Analysis Section, European Space Operation Centre,

"Mitigation issues; protection measures; controlling the future evolution of the debris environment"

Dr. Susumu Toda, National Aerospace Laboratory (Japan),

"Currently applied mitigation measures by space agencies and other space operators; handbooks and standards"

Dr. F. Alby, CNES (France),

"The Inter-Agency Space Debris Coordination Committee (IADC): what is IADS; who are the members; how does it operate; what are the current activities"

Dr. L. Perek, Astronomical Institute (Czech Republic),

"Activities of the professional societies (IAA, IAF, COSPAR); space debris at UN COPUOS"

Contact:

Prof. W. Flury, Mission Analysis Section, European Space Operation Centre,

Robert-Bosch-Str. 5, 64293, Darmstadt, GERMANY, tel: +49 6151 90 2270, fax: +49 6151 90 2625

[20] Workshop on Mars Exploration**26 July, Monday: 9:00-12:30****Hall G / Austria Center**

The workshop will present the current knowledge and understanding of Mars, its importance in the search for extraterrestrial life, and plans and prospects for Mars exploration. The workshop will also seek new opportunities for international cooperation and global participation in Mars exploration.

Coordinator: The Planetary Society (TPS)Chair: Mr. Louis Friedman, TPSSpeakers:

Drs. McCleese and R. Pellinen,

"What we know and want to know about Mars"

Drs. C. McKay and A. Brack,

"The search for extraterrestrial life"

Drs. C. Elachi, R. Bonnet, R. Bonneville, H. Mizutani and S. diPippo,

"Planned missions of exploration, international programs"

Contact:

Mr. Louis Friedman, Executive Director, TPS,
65 North Catalina Avenue, Pasadena, CA 91106, U.S.A.,
tel: +1 626 793 5100, fax: +1 626 793 5528,
e-mail: tps@mars.planetary.org

[21] Workshop on Observations of Near Earth Objects**26 July, Monday: 14:30-17:30****Hall G / Austria Center**

The workshop will review worldwide efforts to understand the natural near-Earth environment, including the nature, population and the influence of near-Earth objects (NEO) on the planet. The workshop will aim to advance international opportunities for participation in these efforts, including in developing countries.

Coordinator: TPSChair: Dr. Adriana Ocampo, NASA (U.S.)Speakers:

Dr. Michael Duke, Lunar Planetary Institute,

"Role of impacts on planets"

Dr. A. Carusi,

"Spaceguard Foundation"

Dr. A. Carusi and Dr. S. Isobe,

"Coordinating observation programs around the world"

(speaker to be announced)

"Report on IMPACT Workshop, Torino"

Mr. L. Friedman, TPS,

"Missions and international programs"

Contact:

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e-mail: tps@mars.planetary.org

[22] Workshop on Education**27 July, Tuesday, 14:30-17:30****Halls I+K / Austria Center**

CNES has a large programme of training activities for young people, students and teachers to enhance the knowledge in sciences and space techniques as well as their applications. A part of this programme is implemented in partnership with the French Ministry of Research and Education (MENRT). The workshop will present these activities as well as those of other countries with similar objectives and will aim to establish a link with programmes in developing countries.

Coordinator: CNESChair: Ms. Catherine Le Cochenec, CNES (France)Speakers:

Mr. Michel Vauzelle, MENRT (France),

"Presentation of summer schools and teachers training, diffusion of general knowledge and EDEN programme"

Ms. Amal Layachi, CRTS (Morocco),

"Contribution from South-South cooperation in space training and technology"

Mr. Jean-Luc Bessis, Groupement pour le Développement de la Télédétection Aérospatiale (GDTA) (France),

"Presentation of the training offer in Earth observation"

Mr. André Fontanel, Institut des Sciences Spatiales et Applications de Toulouse (ISSAT) (France),

"Presentation of ISSAT activities in space related education and interest for developing countries"

Mr. Nicolas Verdier, CNES (France),

"Launching of micro-rockets and small balloons, microgravity experiments and technologies courses"

Contact:

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[23] Workshop on Life Sciences Activities at the International Space Station: Austrian Platform for Life-Science Activities

27 July, Tuesday: 14:30-17:30

Hall H / Austria Center

Global political and economic changes and scientific developments of the last decade have significantly enhanced the opportunities for space life science research. Under such circumstances, international scientific programs around the International Space Station, beside the research conducted by the governments, can be oriented towards industry-sponsored, independent scientific collaboration. The Workshop will examine ways to encourage greater interactions between governments and industry to allow both industrialized and developing countries to better benefit from international research activities in space life science for scientific, economic, social and cultural development. Presentations will be made on the following topics: "The Impact of Profound Changes of Conditions for Space Life Science That Have Taken Place since UNISPACE 82"; Internationalization and Opening of the Space Life Science Programs on the ISS"; "Collaboration between Space Agencies and Industries in the Development of Space Markets in Life Science Research"; "Transfer of Spin-offs Resulting from Space Life Science Research to Terrestrial Applications"; "Role of Space Agencies in the Development of an Appropriate International and Independent Structure Needed to Evaluate, Organize and Promote Space Life Science Programs and Its Spin-offs"; "Benefits of the Internationalization and Opening of Space Life Science to Developing Countries"

Coordinator:

Austrian Association for Life Science Activities around the International Space Station (Plattform 'Österreich auf die ISS' - POIS)

Chair:

Dr. K. Pseiner, Austrian Space Agency (ASA)

Contact:

Mr. Nikolaus Steinhoff, General Secretary, POIS, Dept. of Neurology, University of Vienna, Währinger Gürtel 18-20, A-1090 Vienna AUSTRIA, tel: +43 1 40400 3120, fax: +43 1 40400 3141, e-mail: nikolaus.steinhoff@univie.ac.at

Item 10. Information needs and the global approach

[24] Workshop on Geospatial Data Access

26 July, Monday: 9:00-12:30, 14:30-17:30

Conference Room I / Vienna International Centre

The workshop will explore the emerging convergence of wireless communications, Earth observation data and Global Positioning System technologies with special focus on international cooperation towards a global geospatial information infrastructure. The programme consists of two parts: discussion on issues concerning direct international access to earth observation and related geospatial data bases through the information highway; and discussions on application priorities for direct access to space-derived information in the field, such as mobile offices for forestry and disaster management operations.

Coordinator:

Canada Centre for Remote Sensing (CCRS), Canadian Space Agency (CSA)

Chair:

Dr. Robert O'Neil, Director, Geo Access Division, Geomatics Canada (Canada)

Speakers:

Part I: Direct Access to Earth Observation Data Bases (incl. technical demonstrations and panel discussions on future directions) (morning)

Dr. Peter Holland (Australia),

"The Australian experience in developing a regional geospatial infrastructure"

Dr. Peter Churchill, Joint Research Council, EU,

"Collaboration among European Union countries towards bridging the gap between end-users and Earth observation data and service providers"

Dr. Douglas O'Brien, CCRS (Canada)

"The Canadian experience in providing cost-effective, near real-time access to Earth observation data through the Canadian Earth observation network"

Dr. John Moeller, US Geological Survey (U.S.),

"The Global Spatial Data Infrastructure (GSDI): an opportunity for global sharing of the benefits of space-based data collection and analysis"

Part II: Geospatial Data Access in the Field (incl. technical demonstration and panel discussion) (afternoon)

Mr. Frank Hegyi, British Columbia Association of Professional Foresters,

"Current and emerging space technologies to satisfy emergency and operational needs in the field, focussing on the mobile office"

Dr. Peter Windler, Hungarian Remote Sensing Centre

"The Hungarian experience with distributed geospatial information"

Dr. Natalia Malysheva, Russian Forestry Service,

"The needs of resource managers for timely, cost-effective information to guide field operations: barriers to adoption of new positioning and telecommunication technologies"

Contact:

Mr. Wade Larson, Manager, International Organization, CSA, 6767, route de l'Aéroport, Saint-Hubert, Quebec J3Y 8Y9, CANADA, tel: +1 450 926 4329, fax: +1 450 926 4362, e-mail: Wade.Larson@space.gc.ca

Item 11. Economic and societal benefits**[25] Workshop on Small Satellites at the Service of Developing Countries****26 July, Monday, 14:30-17:30****Conference Room II / Vienna International Centre**

The workshop will present the capabilities of the small satellites to conduct missions of interest to the developing nations in the fields of science and applications, taking advantage of technological advances. As the satellites are small, the missions are more affordable and can be more focused on the specific needs of the developing countries. Small satellites can be used as tools to enhance education and training in space activities and to further increase opportunities for fostering international cooperation. The Workshop includes a round table discussion on international cooperation.

Coordinator:

Subcommittee on Small Satellites for Developing Nations, IAA

Chair:

Mr. Pierre Molette, Chairman of the Subcommittee on Small Satellites for Developing Nations, IAA

Speakers:Prof. Yasunori Matogawa, External Relations Office, ISAS (Japan),
"Small satellites for world-class science"Dr. Suwit Vibulsresth, Deputy Secretary, Ministry of Science,
Technology and Environment (Thailand),
"Remote sensing from small satellites"Dr. Carlos Santana, Director of Engineering, INPE (Brazil)
"Communications using small satellites"Dr. Gael Squibb, Director of Telecommunications and Operations,
NASA/JPL (U.S.),
"Perspectives offered by technology advancement"Prof. Martin Sweeting, Director, Surrey Space Centre (U.K.),
"Small satellites, a tool for education and training"Contact:Mr. Pierre Molette, Matra Marconi Space,
31 Avenue des Cosmonautes, 31 402 Toulouse Cedex 4, FRANCE
tel: +33 5 62 19 60 27, fax: +33 5 62 19 72 55,
e-mail: pierre.molette@tls.mms.fr**[26] Workshop on Developing Indigenous Earth Observation Industrial Capabilities in Developing Countries****27 July, Tuesday: 9:00-12:00, 14:30-17:30****Hall G / Austria Center**

The workshop will produce a report on the options available and suggested course of action to assist developing countries in developing indigenous, self-sustaining Earth observation industrial capabilities. The topics of the workshop will include: the needs seen by developing countries in the development of indigenous industrial capacity in Earth observation; review of the models used to lead to that development; practical, appropriate policies which can be implemented by governments. The emphasis will be on capacity building and developing the necessary strategic partnerships between government and industry.

Coordinator: CSAChair:

Mr. Michel Giroux, Director, External Relations, CSA

Rapporteur:Dr. Bob Ryerson, international consultant in remote sensing,
natural resource evaluation, and environmental monitoringSpeakers:

Dr. Ade Abiodun, United Nations

Dr. Bob Ryerson, international consultant in remote sensing,
natural resource evaluation, and environmental monitoring

Mr. Les Whitney, CCRS (Canada)

Dr. K. Kasturirangan, Chairman, ISRO (India)

Prof. Dr. Ir. H. Harijono Djodjodhardjo, LAPAN (Indonesia)

Prof. Peter Olu Adeniyi (Nigeria)

Contact:Mr. Wade Larson, Manager, International Organization, CSA,
6767, route de l'Aéroport, Saint-Hubert, Quebec J3Y 8Y9,
CANADA, tel: +1 450 926 4329, fax: +1 450 926 4362,
e-mail: Wade.Larson@space.gc.ca**[27] Session on International Standardization for Space Systems****27 July, Tuesday: 14:30-17:30****Conference Room VII /
Vienna International Centre**

The session will aim to establish common understanding of issues relating to the standardization for space systems between the developers of standards and users of space technology. The session will address several space system applications of interest to developing countries and aim to identify ways and means to deliver space-based services, such as communications and remote sensing, in a more economic manner.

Coordinator: International Organization for Standardization (ISO)Chair: Dr. Macgregor S. Reid, formerly JPL/NASARapporteur: Mr. James E. French, Secretary, ISOSpeakers:

Mr. François Abram, ISO,

"International standardization as a process"

Mr. Farzad Ghazvinian, Teledesic Corp. (U.S.),

"Space communication systems"

Mr. Manfred Lehde, DaimlerChrysler (Germany),

"Humans in space: the International Space Station"

Dr. Klaus Lenhart, ESA European Space Operations Centre,

"Benefits of space data systems for developing countries"

Dr. David Giarretta, British National Space Centre (U.K.),

"Data archiving and space data interchanging"

Contact:Mr. James E. French, Secretary, ISO TS20/SC14,
c/o AIAA 1801 Alexander Bell Drive, Suite 500, Reston,
VA 20191-4344, UNITED STATES,
tel: +1 703 264 5750; fax: +1 703 264 7551,
e-mail: jimf@aiaa.org

[28] Workshop on Clean and Inexhaustible Space Solar Power**27 July, Tuesday: 9:00-12:30****Halls I+K / Austria Center**

The Solar Power Satellites (SPS) is a unique and promising candidate for future electricity generation that could help meet the ever-increasing energy demand on Earth without destroying the environment. This workshop will consider SPS as an opportunity for mutually beneficial collaboration between industrialized and developing countries. The issues to be discussed at the workshop include: i) current research and potential interactions of SPS with the environment; and ii) feasibility, benefits and disadvantages of SPS for various countries, in particular developing countries. The workshop will aim to come with useful findings and recommendations for international cooperation and collaboration to realize SPS in the near future.

Coordinator:

International Astronautical Federation (IAF), Power Committee

Chair:

Prof. N. Kaya, Kobe University (Japan)

Speakers:

Dr. Bryan Erb, CSA (Canada),

"Energy outlook in the world"

Dr. John Mankins, NASA (U.S.),

"Concept and study of the solar power satellites"

Prof. Nobuyuki Kaya, Kobe University (Japan),

"Environmental effects (CO₂ estimation, microwave interactions with ionosphere and biology, frequency allocation)"

Dr. Patrick Collins, NASDA (Japan),

"Field research in developing countries"

Dr. Boris Berkovski, UNESCO,

"World Solar Programme 1996-2005: conceptual development and achievements"

Panel discussions and demonstration of microwave power transmission:

Dr. Guy Pignolet, CNES (France),

"Case study of microwave power transmission in Reunion Island"

Dr. Didier Vassaux, CNES (France),

"Opportunity in France"

(speaker to be announced)

"Opportunity in developing countries"

Dr. Dieter Kassing, ESA,

"Opportunity for international collaboration"

Contact:

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[29] Forum on Industrial Utilization of the International Space Station**27 July, Tuesday: 9:00-12:00****Hall H / Austria Center**

This forum will aim to show how to access the International Space Station (ISS) and discuss means to share the use of ISS with the general public and to promote the involvement of developing countries in the utilization of ISS. The discussions of the forum will focus on: i) increase of interest in microgravity research through support of corresponding ground research; ii) consultancy and support in the preparation and financing of experiments; iii) support of experiment hardware development, integration and test; iv) handling of experiment logistics; v) provision of communication and data links between user and experiment; vi) provision of data distribution, processing and evaluation.

Coordinator:

DaimlerChrysler Aerospace, Germany

Chair: Dr. Sami GazeySpeakers:

Dr. Hartmut Ripken, Coordinator for Space Station Utilization Preparation, DLR (Germany)

Mr. Helmut Luttmann, Managing Director, Bremen Engineering Operations Science, DaimlerChrysler Aerospace (Germany)

Dr. T. R. Kamali, Managing Director, CERT, (United Arab Emirates)

Mr. Wofram Lork, Head of Business Development Payloads and Utilization, DaimlerChrysler Aerospace (Germany)

Mr. Kenneth A. Jackson, Director, Research Business Development, Spacehab (U.S.)

Speaker from MSS-4, International Space University (to be announced)

Contact:

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e-mail: Claudia.Kessler@ri.dasa.de

Item 12. Promotion of international cooperation**[30] High-Level Academic Panel: "Space Benefits for Humanity"****19 July, Monday: 15:00-17:00****Conference Room III / Vienna International Centre**Panel speakers (invited)

Prof. Vittorio Canuto, Department of Astronomy, Columbia University

Prof. E. Margaret Burbidge, Center for Space Science, University of California

Prof. Ben Finney, Department of Anthropology, University of Hawaii

Prof. Halton Arp, Max-Planck-Institute for Astrophysics

Dr. Yash Pal, formerly Tata Institute of Fundamental Research

Coordinator:

United Nations Office for Outer Space Affairs

Contact:

Prof. Hans Haubold, Office for Outer Space Affairs, United Nations Office at Vienna, Rm. E-0947, P.O. Box 500, A-1400, Vienna AUSTRIA, tel: +43 1 26060 4949; fax: +43 1 26060 5830; e-mail: Hans.Haubold@oosa.un.or.at

**[31] Workshop on Managing Space Programmes
in Developing Countries: Experiences and Needs**
20 July, Tuesday: 9:00-12:00
Hall G / Austria Center

Over the last few decades, a number of countries have initiated space programmes. Many developing countries will be benefited if the experience of the countries in managing their space programmes is presented during the conference. In this connection, the workshop will examine the overall objectives and achievements of space programmes of different countries, with special emphasis on management models used, and will aim to identify new applications of space science and technology which can be gainfully integrated into the developmental programmes in developing countries.

Coordinator: ISRO

Chair: Dr. K. Kasturirangan, Chairman, ISRO (India)

Speakers:

Dr. K. Kasturirangan, Chairman, ISRO (India),

"Management of space programmes by developing countries: issues and perspectives"

Prof. Dr. H. Harijono Djodjodhardjo, Chairman, LAPAN (Indonesia),

"Research and technology initiatives for a developing countries' space programme: the Indonesian experience"

Dr. Marcio Nogueira Barbosa, Director General, INPE (Brazil),

"Development of space technology and applications: Brazilian initiative"

Shri K. R. Sridhara Murthi, Scientific Secretary, ISRO (India),

"How can developing countries benefit from space technology and applications"

Prof. Datuk Dr. Mazlan Othman, Space Science Studies Division, Ministry of ST&E (Malaysia),

"Role of small satellites for developing countries"

Dr. Meryem Ben Mehrez, Dr.-Engineer in Space RS, CRTS (Morocco)

Mr. Sias Mostert (South Africa),

"Experiences in South Africa from the SUNSAT program"

(speaker to be announced)

"The China's experience of managing space activities"

Contact:

Mr. K. R. Sridhara Murthy, Scientific Secretary, ISRO,
 Antariksh Bhavan, New BEL Road, Bangalore, 560 094 INDIA;
 tel: +91 80 321 6356; fax: +91 80 341 5298;
 e-mail: krs@isro.ernet.in

**[32] High-level Space Industry Panel,
"Harnessing Space for Development and
Exploration: A Global Vision for the 21st
Century"**

20 July, Tuesday: 12:00-13:30

Hall E / Austria Center

Selected panelists from senior executives of leading space and advanced technology firms from spacefaring nations and high-level decision-makers from non- or less-advanced spacefaring nations will address the following topics: global space-based telecommunications challenges and opportunities; new horizons in monitoring the Earth from space; the role of space in the information revolution; space industry in the 21st century. The decision-makers of non- or less-advanced spacefaring nations will present their requirements, expectations and priorities in the areas listed above, and the senior executives from spacefaring nations will provide their visions and perspectives for the technology development and space business.

Coordinator:

American Institute of Aeronautics and Astronautics (AIAA)

Moderator:

Mr. E. C. "Pete" Aldridge, Jr., President, The Aerospace Corporation

Expected speakers include:

Dr. Marcio Nogueira Barbosa, Director, INPE (Brazil)

H.E. Y.B. Datuk Law Hieng Ding, Minister of Science, Technology and the Environment (Malaysia) (invited)

Mr. Toru Ariga, General Manager, Aerospace Division, Mitsubishi Corporation (Japan)

Mr. David Thompson, President, Orbital Sciences Corporation (U.S.)

Mr. Armand Carlier, Chairman and CEO, Matra Marconi Space (France)

Mr. Steven D. Dorfman, President, Hughes Telecommunications and Space Company (U.S.)

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[33] Session on Results from the 5th International Cooperation in Space Workshop, "International Space Cooperation: Solving Global Problems"

20 July, Tuesday: 14:30-17:30
Hall G / Austria Center

The findings and recommendations from the Fifth AIAA International Cooperation in Space Workshop will be presented and discussed at this session with an audience of interested delegates of governments and other participants of UNISPACE III.

Coordinator: AIAA

Chairs:

Dr. Hans Kappler, Director of Industrial Matters and Technology Policy, ESA;

Mr. E. C. "Pete" Aldridge, Jr., President, The Aerospace Corporation (U.S.);

Mr. N. Jasentuliyana, Deputy to the Director-General, United Nations Office at Vienna, and Director, United Nations Office for Outer Space Affairs

Programme:

Dr. Joseph Bravman, Senior Vice President, Orbital Sciences Corporation (U.S.), and Dr. Hans Kappler, Director, Industrial Matters and Technology Programmes, ESA,

"Government-industry partnerships in space projects: toward commercialization"

Mr. Richard DalBello, Vice President, Government Affairs, ICO Global Communications (U.S.),

"GNSS: fostering international cooperation and benefits to world-wide users"

Mr. Tetsuo Sakashita, Executive Director, Remote Sensing Technology Center (Japan),

"International Earth observation data distribution systems"

Mr. Russell Koffler, Consultant, and Dr. Ligio Marelli, Head, Remote Sensing Exploitation Department, ESA/ESRIN

"Using space assets for disaster management: next steps"

Ms. Susan Bittles, Business Development Manager, Matra Marconi Space (France), and Mr. Ronald K. Sable, Senior Vice President, Corporate Development, The Aerospace Corporation (U.S.)

"The growing number of satellites in orbit: facing the issues"

Contact:

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[34] Forum on Space Activities in the 21st Century

21 July, Wednesday: 9:00-12:00, 14:30-17:30
Hall G / Austria Center

During the 21st century, space activity will have a profound influence on life on Earth and the development of society, touching ever more firmly on the provision of the necessities and quality of life and accelerating the movement of nations towards the concept of the global village. A study by Prospectus 2100, a group identifying major global trends for the next century, ranked space activity as one of the twelve most important factors for shaping the next century. This forum will discuss the results of the recent deliberations of the group and will seek inputs from participants of the forum on the appropriate space activity in the next century that meets the needs of humanity.

The forum will consider "Living on Planet Earth" and "Leaving Planet Earth" and will break into 6 workshops on the following themes:

- i) managing Earth's resources;
- ii) health and education;
- iii) policy and economics;
- iv) energy; v) security;
- vi) exploration.

Coordinators: IAF, Prospective 2100 and ISU

Chair:

Dr. Karl Doetsch, ISU President and former IAF President

Contacts:

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[35] Space Agency and Industry Heads Panel on the Theme of the Conference

**21 July, Wednesday, and 22 July, Thursday:
12:00-13:30 each day
Hall F / Austria Center**

Moderator:

Mr. Roy Gibson, consultant and former Director General, ESA

Space Agency Heads Panel on 21 July, Wednesday:

Dr. D. James Baker, Administrator, NOAA (U.S.)

Prof. Sergio De Julio, President, ASI (Italy)

Mr. Mac Evans, President, CSA (Canada)

Dr. K. Kasturirangan, Chairman, ISRO (India)

Prof. Dr. Walter Kröll, Chairman, DLR (Germany)

Prof. Antonio Rodotà, Director-General, ESA

Mr. Isao Uchida, President, NASDA (Japan)

Space Agency and Industry Heads Panel on 22 July, Thursday:

Mr. Jim Albaugh, President, Boeing Space & Communications Group (U.S.)

Dr. Gérard Brachet, Director-General, CNES (France)

Mr. Daniel S. Goldin, Administrator, NASA (U.S.)

Dr. Anatoly I. Kiselev, Khrunichev State Research & Production Space Centre (Russian Federation)

Mr. Yuri N. Koptev, Director-General, Russian Space Agency (Russian Federation)

Mr. J. G. Vaz, President, Brazsat (Brazil)

Coordinator:

United Nations Office for Outer Space Affairs

Contact:

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[36] Round Table on Cooperation and International Competition

**23 July, Friday: 12:00-14:00
Hall D / Austria Center**

The roundtable will focus on the partnerships being established in various countries between space agencies, other space-related government agencies and industry to promote industrial competitiveness. The roundtable will aim to identify areas in which international cooperation at the government level will be necessary to create a business environment conducive to promoting fair competition among aerospace industry around the world.

Coordinator: CNES

Chair/Moderator:

Dr. Gérard Brachet, Director General, CNES (France)

Panel members:

Mr. Walter Bartels, President, Brazilian Association of Aerospace Industries (Brazil)

Mr. Gennady P. Biryukov, General Director, Design Bureau of Transport Machinery (Russian Federation)

Mr. Muthugadahalli Gangarudriah Chandrasekhar, Vice-President and General Manager (India), WorldSpace (U.S.)

Mr. Jean-Jacques Dordain, Director, Strategy and Business Development, ESA

Mr. Jay F. Honeycutt, President, Lockheed Martin Space Operations (U.S.)

Mr. Jean-Yves Le Gall, Starsem (France)

Mr. Enjie Luan, Administrator, China National Space Administration (CNSA) (China)

Dr. Luiz Gylvan Meira Filho, President, Brazilian Space Agency (Brazil)

Mr. Serge Plattard, Directeur des Relations Internationales, CNES (France)

Mr. G. Madhavan Nair, Director, Liquid Propulsion System Centre, ISRO, associated member of ANTRIX Corporation (India)

Contact:

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e-mail: Michel.Laffaiteur@cnes.fr

[37] Workshop on Intellectual Property Rights in Space

27 July, Tuesday: 9:00-12:00

Conference Room VII / Vienna International Centre

The workshop will aim to examine the evolution of the issues relating to intellectual property and space activities on the basis of the experience of the main national and international space agencies, in order to assess what can be done in the future, taking into account the new way to perform space activities. The panel discussion in the workshop will address such questions as whether international intellectual property standards would be necessary for space cooperation, whether the harmonization of national legislation on intellectual property and space would be necessary, and technology transfer to non-spacefaring nations and views of developing countries, with respect in particular to ground infrastructure problems.

Coordinator: ESA

Chair: Mr. A. Trampusch, WIPO

Speakers:

Mr. D. Sacotte, Director of Administration, ESA,
"Opening Remarks"

Mr. René Oosterlinck, Head, Department of Legal Affairs, Rules and Organizational Matters, ESA,
"Introduction IP and relevance for international space activities"

Mr. A. Trampusch, WIPO,
"Intellectual property and space activities"

Mr. Mannix, NASA (U.S.),
"NASA Space Station experience"

Prof. Bhatt (India),
"Cooperation Russia-India"

Prof. Monserat Filho, (Brazil),
"Cooperation Brazil-China"

Contact:

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[38] Workshop on Space Law in the 21st Century
from 20 July, Tuesday to 23 July, Friday
9:00 - 12:00, 14:30-17:30
Conference Room II / Vienna International Centre
and 24 July, Saturday
E 0951/Vienna International Centre

The workshop will produce a report containing findings, conclusions and recommendations of the eight sessions listed below. Each session will have before it a discussion paper which will be prepared in advance.

Coordinator: International Institute of Space Law (IISL)

Session 1: 20 July, Tuesday, 9:00-12:00
Existing UN Space Treaties: Strengths and Needs

Chair: Dr. Eilene Galloway (U.S.)

Rapporteur: Dr. Kai-Uwe Schrogl, DLR (Germany)

Commentators:

Prof. Y. Kolosov (Russian Federation),

Dr. Frans von der Dunk (the Netherlands),

Prof. S. Baht (India)

Discussion paper author:

Prof. Dr. Vladimír Kopal (Czech Republic)

Session 2: 20 July, Tuesday, 14:30-17:30

Expanding Global Launch Services

Chair: Prof. E. Back Impallomeni (Italy)

Rapporteur: Dr. Frans von der Dunk (the Netherlands)

Commentators:

Ms. Catherine Baudin, ESA, Mr. John Gantt (U.S.),

Mr. J. M. Filho (Brazil)

Discussion paper author:

Mr. Peter van Fenema (The Netherlands)

Session 3: 21 July, Wednesday, 9:00-12:00

Expanding Global Communications Services

Chair: Prof. V. S. Mani (India)

Rapporteur: Dr. Ram Jakhu (Canada/India)

Commentators:

Mr. Alfons Noll (Switzerland),

Dr. Jonathan F. Galloway (U.S.),

Dr. Ram Jakhu (Canada/India)

Discussion paper author: Dr. Francis Lyall (U.K.)

Session 4: 21 July, Wednesday, 14:30-17:30

Expanding Global Remote Sensing Services

Chair: Dr. Ernst Fasan (Austria)

Rapporteur: Dr. Marietta Benko (Germany)

Commentators:

Mr. Carlos Hernando Rebellón Betancourt (Colombia),

Mr. Alexander V. Yakovenko (Russian Federation)

Dr. M. G. Chandrasekhar (India)

Discussion paper author: Prof. J. L. Gabrynowicz (U.S.)

Session 5: 22 July, Thursday, 9:00-12:00

The Roles of International Organizations in Privatization and Commercial Use of Outer Space

Chair: Mr. G. Lafferranderie, ESA

Rapporteur: Dr. B. Schmidt-Tedd (Germany)

Commentators:

Mr. David Sagar, Inmarsat,

Mr. Leonard S. Dooley, INTELSAT,

Mr. Victor S. Veshchunov, INTERSPUTNIK,

Mr. P. Hulsroij, EUMETSAT

Discussion paper author: Mr. Christian Roisse, EUTELSAT

Session 6: 22 July, Thursday, 14:30-17:30

Expanding Global Navigation Services

Chair: Mr. David Sagar, Inmarsat

Rapporteur: Mr. Marco Ferrazzani, ESA

Commentators:

Mr. Jiefang Huang, ICAO (invited),

Dr. B. D. K. Henaku (Ghana),

Dr. V. B. Reddy (India)

Discussion paper author: Prof. Paul B. Larsen (U.S.)

Session 7: 23 July, Friday, 9:00-12:00

Possible International Regulatory Frameworks, including Legal Conflict Resolution in Expanding Space Commercialization

Chair: Prof. Karl-Heinz Bockstiegel (Germany)

Rapporteur: Ms. Anna Maria Balsano, ESA

Commentators:

Prof. V. S. Mani (India),

Prof. Tatsuzawa (Japan),

Mr. René Oosterlinck, ESA

Discussion paper author:

Prof. Dr. Peter Malanczuk (the Netherlands)

Session 8: 23 July, Friday, 14:30-17:30

Maintaining the Space Environment

Chair: Amb. Qizhi He (China)

Rapporteur: Prof. Maureen Williams (Argentina)

Commentators:

Mr. G. Lafferranderie, ESA,

Prof. Dr. Karl-Heinz Bockstiegel (Germany),

Prof. Maureen Williams (Argentina)

Discussion paper author: Dr. Lubo Perek (Czech Republic)

Executive Committee Session: 24 July, Saturday, 9:00-12:00

Workshop Summary

Programme Coordinator:

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Ms. Tanya L. Masson-Zwaan, Secretary, IISL,

3-5, rue Mario-Nikis 75015 Paris FRANCE,

tel: +33 1 45 67 42 60; fax: +33 1 42 73 21 20

Ms. Masami Onoda, Office for Outer Space Affairs,

United Nations Office at Vienna,

P.O. Box 500, A-1400, Vienna AUSTRIA,

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e-mail: Masami.Onoda@oosa.un.or.at

(IISL Workshop's Working Group on Privatisation will be held on 19 July 1999 at the Vienna International Centre.)

18 July, Sunday, to 30 July, Friday
Conference Rooms III, IV and V
Vienna International Centre

The Space Generation Forum (SGF) provides a forum for university students and young professionals to fully express their creative visions for the future of space in an international, intercultural environment of free exchange, and in the context of the themes being discussed at UNISPACE III. Possible topics of the discussions include: exploration of the Solar System by manned space flight; exploitation of space, solution for global problems; economic aspects of space activities, a long term cost benefit analysis; search for extra-terrestrial life; benefits of future astronomical activities; tangible objectives: Earth observation, environmental monitoring and telecommunication; Earth defense issues; origin, evolution, and exploration of life in the universe; international cooperation. For details of the SGF, also see:

<http://www.space-generation.org>

Coordinator: Alumni of the International Space University (ISU)

Contact:

Dr. Werner Balogh, Office for Outer Space Affairs,
 United Nations Office at Vienna, Wagramerstrasse 5, A-1400, Vienna, AUSTRIA,
 tel: +43 1 26060 4946,
 fax: +43 1 26060 5830,
 e-mail: Werner.Balogh@oosa.un.org

From 18 July, Sunday, to 23 July, Friday
Exhibition Hall / Austria Center

Opening hours

18 July, Sunday: 11:00-18:00

19 July, Monday: 12:00-18:00

(closed to the public)

20 July, Tuesday: 9:00-18:00

(closed to the public)

21 July, Wednesday: 11:00-20:00

22 July, Thursday: 9:00-18:00

23 July, Friday: 9:00-12:00

Companies, space agencies and institutes, international operational agencies, and non-governmental and non-profit space-related organizations are invited to participate as exhibitors during UNISPACE III. The exhibition will be organized at the Austria Center. The exhibition will showcase global achievements of space technology, highlight current and future development tools, present emerging technologies, provide a forum for business opportunities and establish partnerships among developed and developing countries. Topics featured at the exhibition will include space technology and science, communication, environment, health, and education and training.

Coordinator: AIAA

Contact:

Mr. Howard O'Brien, Jr., Sales, Exhibit, AIAA, 1801 Alexander Bell Drive, Suite 500, Reston, VA 20191-4344, UNITED STATES; tel: +1 703 264 7535; fax: +1 703 264 7551; e-mail: howardo@aiaa.org

A. National Presentations

*from 26 to 29 July, Mon.-Thu.; 12:30-13:30
Hall E / Austria Center**

Technical presentations by representatives of governments and international organizations will be made on various topics related to the objectives of the conference. The schedule of the presentations will be made available to conference participants and will be announced on a daily basis during the conference.

(*Technical presentations will be made also in Hall F on Monday, 26 July, from 12:30 to 13:30.)

B. Presentations by Industry and National Non-Governmental Organizations

*from 20 to 23 July, Tue.-Fri.; 9:00-18:00
Ground Level, adjacent to Hall E / Austria Center*

Technical presentations by industry will be made on various topics related to the objectives of the conference. The schedule of the presentations will be made available to conference participants and will be announced on a daily basis during the conference.

Opening of the Space Exhibition

*19 July, Monday, 12:00
(immediately following the official opening of the conference)
Exhibition Hall / Austria Center*

Welcome Reception hosted by the Chancellor of Austria

(by invitation only)
19 July, Monday, 18:00-20:00, Federal Chancellery

Astronauts and cosmonauts event: Celebration of the 30th anniversary of the Moon Landing

*20 July, Tuesday, 17:30-18:30
Hall D / Austria Center*

"Space Vision for the 21st Century", Public Speech by Mr. Daniel S. Goldin, NASA Administrator

organized and sponsored by Creditanstalt and Forum Schwarzenbergplatz, in cooperation with the Austrian Space Agency (ASA) and NASA

*21 July, Wednesday, 18:15,
Grosser Festsaal, University of Vienna*

Reception by the Governor and Mayor of Vienna

(by invitation only)
22 July, Thursday, 20:00, Rathaus

Excursion to Burgenland, hosted by the Governor of Burgenland

(by invitation and registration; details to be provided)

Reception by the Ministry of Economic Affairs, Federation of Austrian Industry and the Austrian Federal Economic Chamber

(by invitation only)
*27 July, Tuesday, 20:00-21:30,
Hofburg Palace, Redoutensäle*

SGF Symposium in Graz

(by invitation by the Mayor of the City of Graz and the Governor of the State of Styria)

Open to all interested participants of the Space Generation Forum

28-29 July, Wednesday-Thursday

(Other social events to be announced)

A. Conference Venue

UNISPACE III will be held at the United Nations Office at Vienna (UNOV), Vienna International Centre (VIC), Wagramerstrasse 5, A-1220, Vienna, and the Austria Center Vienna (ACV), which is located adjacent to the VIC. Intergovernmental meetings and the space exhibition will be held at the ACV, and some of the activities of the Technical Forum will be held at UNOV/VIC. From the ACV, there is a direct passage to the VIC which will be open for registered participants during the conference period.

Participants coming to the VIC and the ACV by public transportation should take line U-1 of the subway in the direction of "Kagran" station, get off at the "Kaisermuehlen - Vienna International Centre" station and follow the signs to the VIC or the ACV.

Security

Registration and conference passes

Security regulations at the VIC and the ACV require that all participants be registered. Upon arrival at the VIC, from 14 to 16 July, security officers on duty at the entrance gates and in Building C will direct participants to the registration desk in the Main Lobby. Upon arrival at the ACV, from 18 to 30 July, participants are requested to proceed to the registration desk in the Main Lobby of the ground floor. Conference passes will be issued by the United Nations Security following the registration of participants. Members of the official delegations and other participants who are already in possession of a valid VIC ground pass will not need additional conference passes. All participants are requested to wear the conference passes at all times both at the VIC and the ACV.

Participants are requested not to leave any luggage or briefcases unattended.

Lost and found is operated by the United Nations Security at the main entrance of the ACV or in the VIC, in room F0E21.

The opening hours of the registration desk are:

12-13 July:	8:30 a.m.-3:00 p.m.	at the VIC
14-16 July:	8:30 a.m.-5:00 p.m.	at the VIC
18 July:	8:30 a.m.-6:00 p.m.	at the ACV
19 July:	7:30 a.m.-5:00 p.m.	at the ACV
20-23 July:	8:00 a.m.-4:00 p.m.	at the ACV
26-30 July:	8:00 a.m.-4:00 p.m.	at the ACV

In view of a large number of participants expected to register on 19 July, participants are encouraged to register by 18 July or earlier as much as possible.

Members of the official delegations

The names of the members of the official delegations should be communicated to the executive secretariat by the Governments or international organizations invited to the conference. The registration forms for the official delegates will be available at the registration desks at the VIC from 14-16 July and at the ACV from 18-30 July. In view of a large number of participants expected to register on 19 July, members of the official delegations in particular are encouraged to register by 18 July or earlier as much as possible.

National organizations and industries invited by their governments

Representatives of the national organizations and industries invited by their respective Governments should obtain registration forms from the Ministries of Foreign Affairs or equivalent of their Governments. Completed forms should be returned to the executive secretariat through the Governments no later than 3 weeks before the conference.

Participants in the Technical Forum activities, including exhibitors

Those who wish to participate in activities of the Technical Forum should contact the respective Coordinators of those activities to receive invitations. Along with the invitations, registration forms will be provided by the Coordinators. The invitations are for registration purposes and do not imply financial sponsorship by the Coordinators. For registration purpose, only one activity of the Technical Forum should be indicated in the registration form, in order to avoid unnecessary delays in the registration which may arise from double-entry. All activities of the Technical Forum will be open to all registered participants of the conference, regardless of which activity is indicated in the submitted registration form. Completed forms should be returned to the executive secretariat through the Coordinators of the Technical Forum, who are responsible for providing the executive secretariat with lists of their participants no later than 3 weeks before the conference, in order to ensure the security clearance and access to the conference site (ACV and VIC).

Exhibitors should obtain registration forms from the American Institute of Aeronautics and Astronautics (AIAA), which is coordinating the organization of the exhibition.

(The registration form can be downloaded from the web site of the Office for Outer Space Affairs. (See URL address below.))

A.Lieu de la Conférence

La Conférence UNISPACE III se tiendra à l'Office des Nations Unies à Vienne (ONU), Centre international de Vienne (CIV), Wagramer Strasse 5, A-1220 Vienne, et à l'Austria Center Vienna, adjacent au CIV. Les réunions intergouvernementales et l'exposition sur l'espace se tiendront à l'Austria Center, tandis que la plupart des activités du Forum technique se dérouleront à l'ONU/CIV. Il y aura un passage direct, durant la période de la Conférence, pour les participants de la Conférence, entre le Austria Center et le CIV.

Les participants qui souhaitent emprunter les transports publics pour se rendre au CIV et à l'Austria Center doivent prendre la ligne de métro U-1 dans la direction "Kagran" et descendre à la station "Kaisermühlen - Vienna International Centre". À partir de là, ils suivront les panneaux indiquant le chemin jusqu'au CIV ou à l'Austria Center.

Sécurité

Inscription des participants et cartes d'identité

Conformément aux règles de sécurité appliquées au CIV et à l'Austria Center, tous les participants doivent se faire inscrire. En cas d'arrivée au CIV du 14 au 16 juillet, les agents de sécurité en faction aux portes d'entrée et dans le bâtiment C dirigeront les participants vers le bureau d'inscription dans la rotonde. Il est demandé aux participants qui arriveront à l'Austria Center entre le 18 et le 30 juillet de se rendre au bureau d'inscription dans le grand hall du rez-de-chaussée. Les cartes d'identité seront délivrées par le Service de la sécurité après inscription des participants. Les membres des délégations officielles et les autres participants qui possèdent déjà une carte d'identité valide n'auront pas besoin de carte d'identité supplémentaire. Il est demandé à tous les participants d'arborer leur carte d'identité en permanence dans l'enceinte du CIV et de l'Austria Center.

Il est conseillé aux participants de ne pas laisser leurs bagages ou leur serviette sans surveillance. Pour les objets trouvés, prière de s'adresser aux bureaux du Service de la sécurité de l'Organisation des Nations Unies près de l'entrée principale de l'Austria Center ou au CIV, bureau F0E21.

L'horaire du bureau d'inscription est le suivant:

12-13 juillet :	8 h 30 - 15 heures	CIV
14-16 juillet :	8 h 30 - 17 heures	CIV
18 juillet :	8 h 30 - 18 heures	Austria Center
19 juillet :	7 h 30 - 17 heures	Austria Center
20-23 juillet :	8 - 16 heures	Austria Center
26-30 juillet :	8 - 16 heures	Austria Center

Comme il est prévu que beaucoup de personnes voudront se faire inscrire le 19 juillet, il est recommandé aux participants de s'inscrire, dans la mesure du possible, dès le 18 juillet ou même avant.

Membres des délégations officielles

Les noms des membres des délégations officielles doivent être communiqués au secrétariat exécutif par les gouvernements ou les organisations internationales invités à la Conférence. Il sera possible de se procurer des formulaires d'inscription pour les représentants officiels du 14 au 16 juillet au bureau d'inscription du CIV et du 18 au 30 juillet au bureau d'inscription de l'Austria Center.

Organisations et industries nationales invitées par leur gouvernement

Les représentants des organisations et des industries nationales invitées par leur gouvernement se procureront des formulaires d'inscription en s'adressant au Ministère des affaires étrangères de leur gouvernement, ou équivalent. Les formulaires, une fois remplis, seront transmis au secrétariat exécutif par l'intermédiaire du gouvernement, au plus tard trois semaines avant la Conférence.

Participants aux activités du Forum technique, y compris les exposants

Les personnes qui désireraient participer aux activités du Forum technique sont priées de prendre contact avec les coordonnateurs respectifs des activités en question pour recevoir des invitations. Les formulaires d'inscription correspondants seront fournis par les coordonnateurs. Il suffit de mentionner sur le formulaire d'inscription une seule activité du Forum technique, afin d'éviter des retards inutiles en faisant référence à de multiples activités. Tous les participants inscrits à la Conférence pourront prendre part aux activités du Forum technique, indépendamment de l'activité mentionnée sur le formulaire d'inscription transmis. Les formulaires dûment remplis seront retournés au secrétariat exécutif par l'intermédiaire des coordonnateurs du Forum technique, qui communiqueront au secrétariat exécutif la liste de leurs participants au plus tard trois semaines avant la Conférence afin que l'habilitation de sécurité et l'accès au lieu de la Conférence (Austria Center et CIV) puissent être assurés.

Les exposants pourront se procurer des formulaires d'inscription en s'adressant à l'American Institute of Aeronautics and Astronautics (AIAA), qui coordonne l'organisation de l'exposition.

(Il est possible de télécharger le formulaire d'inscription sur le site web du Bureau des affaires spatiales. (Voir adresse URL plus loin.))

Official Languages

The official languages of the intergovernmental meetings of the conference are Arabic, Chinese, English, French, Russian and Spanish. The language of a majority of the activities of the Technical Forum is English. For details, the Coordinators of the activities of the Technical Forum should be contacted.

Catering Services

A cafeteria, a restaurant and a cocktail lounge are located in Building F, entrance level, of VIC. The restaurant (table reservation recommended, ext. 4877) is open from 11:30 a.m. to 3.00 p.m. The cafeteria is open from 8:00 to 10:00 a.m. and from 11:30 a.m. to 2:30 p.m. During the conference period, coffee bars located in Building C will be in operation during meeting hours. Details of the catering services at the ACV will be announced at the conference.

Banks

The Creditanstalt-Bankverein has a branch on the first floor of Building C and Bank Austria at the entrance level of Building D of VIC. Both banks provide full banking services. Bank hours are Monday, Tuesday, Wednesday and Friday from 9:00 a.m. to 3:00 p.m. and Thursdays from 8:30 a.m. to 5:00 p.m.

Medical Services

Medical attention is available from the clinic operated by the Joint Medical Service located at the VIC, Building F, seventh floor (extension 22224 and, for emergencies 22222; the extension should be preceded by 88 when calling from the ACV), open Monday through Friday, from 8:30 to 18:00. For emergency assistance at other times, participants should call the Security Duty Room at the VIC (extension 99; call from ACV: 88-99).

Postal Service

A post office on the first floor of Building C of VIC provides all regular postal services, including cable, fax and telephone services, Monday through Friday from 8:00 a.m. to 6:00 p.m. A post office on the ground floor of the Austria Center also provides regular postal services.

United Nations Postal Administration (UNPA)

Services of UNPA (including procurement of UN stamps and dissemination of philatelic information) are available during the conference at the following locations:

Exhibition stand at the Austria Center:
open during the exhibition hours

Counter on the ground floor of Building F of VIC:
open from Monday through Friday
from 11:30 a.m. to 2:30 p.m.

Counter in the Visitor Center at Gate 1 at the VIC:
open from Monday through Friday
from 9:00 a.m. to 4:00 p.m.

Travel Services

American Express and Rosenbluth International are at the disposal of participants requiring assistance with such matters as travel, sightseeing, car rental and excursions. The travel agencies are located in the corridor connecting the Main Lobby in Building C with Building F of VIC. The office hours are Monday through Friday from 8:30 a.m. to 5:00 p.m.

Visitor Center

The information desk for guided tours of the VIC and several shops are located at the Visitor Center at Gate 1 of the VIC. The Visitor Center is open from Monday through Friday, from 8:30 a.m. to 6.30 p.m.

- UNPA Counter
see "United Nations Postal Administration" above.
- Bundy Bundy (hairstylist)
open Monday through Friday,
from 9 a.m. to 6 p.m.
call: 263 60 60 (local)
- Flowershop Pajak
open Monday through Friday,
from 8 a.m. to 6 p.m.
call: 263 76 53
- ORF Shop
open Monday through Friday, from 9 a.m. to 6:30 p.m. CDs, videotapes, books, UN souvenirs, and UN publications can be purchased.
- UNO Café
open Monday through Friday,
from 9 a.m. to 6 p.m.
- Guided tours
Monday through Friday, at 11 a.m. and 2 p.m.
For group tours with prior arrangements,
call: +431 26060 3328, or fax: +1 43 1 26060 5809

Langues officielles

Les langues officielles des réunions intergouvernementales de la Conférence sont l'anglais, l'arabe, le chinois, l'espagnol, le français et le russe. La langue de la plupart des activités du Forum technique est l'anglais. D'autres détails peuvent être obtenus en s'adressant aux coordonnateurs des activités du Forum technique.

Services de restauration

Il y a une cafétéria, un restaurant et un bar au rez-de-chaussée du bâtiment F du CIV. Le restaurant (réservation recommandée, poste 4877) est ouvert de 11 h 30 à 15 heures. La cafétéria est ouverte de 8 heures à 10 heures et de 11 h 30 à 14 h 30. Pendant la durée de la Conférence, les bars à café du bâtiment C seront ouverts durant les réunions. Des renseignements sur les services de restauration à l'Austria Center seront communiqués lors de la Conférence.

Banques

Il y a une filiale de la Creditanstalt-Bankverein au 1er étage du bâtiment C et une filiale de la Bank Austria au rez-de-chaussée à l'entrée du bâtiment D du CIV. Ces deux établissements assurent divers services bancaires. Ils sont ouverts le lundi, le mardi, le mercredi et le vendredi de 9 heures à 15 heures, et le jeudi de 8 h 30 à 17 heures.

Services médicaux

Les soins médicaux sont assurés par le Service médical commun, sis au 7^e étage du bâtiment F du CIV (poste 22224 et, en cas d'urgence, 22222; pour appeler depuis l'Austria Center, il faut d'abord composer le 88), du lundi au vendredi, de 8 h 30 à 18 heures. Pour les secours d'urgence en dehors de ces heures, il convient d'appeler la permanence du Service de la sécurité du CIV (poste 99; depuis l'Austria Center: 88-99).

Services postaux

Le bureau de poste situé au 1er étage du bâtiment C du CIV assure tous les services postaux courants, y compris télex, télécopie et téléphone, du lundi au vendredi, de 8 heures à 18 heures. Le bureau de poste situé au rez-de-chaussée de l'Austria Center assure également les services postaux courants.

Administration postale des Nations Unies (APNU)

Les services de l'APNU (y compris pour l'achat de timbres des Nations Unies et les renseignements philatéliques) seront assurés durant la Conférence aux points suivants:

Stand d'exposition de l'Austria Center, ouvert aux mêmes heures que l'exposition;
Comptoir du rez-de-chaussée du bâtiment F du CIV, ouvert du lundi au vendredi, de 11 h 30 à 14 h 30;

Comptoir du Centre des visiteurs, porte 1 du CIV, ouvert du lundi au vendredi, de 9 heures à 16 heures.

Voyages

Les agences American Express et Rosenbluth International se tiennent à la disposition des participants pour toute question concernant les voyages, le tourisme, la location de voitures et les excursions. Ces agences sont situées dans le corridor qui mène de la rotonde du bâtiment C au bâtiment F du CIV. Elles sont ouvertes du lundi au vendredi, de 8 h 30 à 17 heures.

Centre des visiteurs

On trouvera au Centre des visiteurs, à la porte 1 du CIV, le bureau d'information pour les visites guidées du CIV et plusieurs commerces. Le Centre des visiteurs est ouvert du lundi au vendredi, de 8 h 30 à 18 h 30.

- Comptoir de l'APNU
Voir plus haut, à la rubrique "Administration postale des Nations Unies".
- Bundy Bundy (coiffeur)
Du lundi au vendredi, de 9 heures à 19 heures, numéro de téléphone: 263 60 60 (réseau urbain).
- Fleuriste Pajak
Du lundi au vendredi, de 8 heures à 18 heures, numéro de téléphone: 263 76 53.
- Magasin ORF
Du lundi au vendredi, de 9 heures à 18 h 30: on peut s'y procurer des disques compacts, des vidéos et des souvenirs et publications des Nations Unies.
- Café ONU
Du lundi au vendredi, de 9 heures à 18 heures.
- Visites guidées
Du lundi au vendredi, à 11 heures et à 14 heures. Visites de groupe possibles sur rendez-vous, numéro de téléphone: +43 1 26060 3328, numéro de télécopieur: +43 1 26060 5899.

Smoking

Smoking is not allowed inside the Conference and Meeting rooms at the VIC, as well as at the ACV. The VIC is a smoke-free environment. Smoking is allowed only in the clearly designated areas (coffee lounges on the second, fourth and seventh floors), where "smoking permitted" signs are displayed.

Mobile telephone

Use of mobile telephones is not allowed inside the Conference and Meeting rooms at the VIC, as well as at the ACV, during the meetings. Participants of the Conference are requested to switch off their mobile telephones during the meetings.

Parking Space

Parking space will be available at the ACV for the participants of the Conference. Information will be provided at the registration desks in the VIC and at the information desk at the ACV.

Press

Members of the press who wish to attend the conference are requested to contact the United Nations Information Service (TEL: +43 1 26060 4666; FAX: +43 1 26060 5899; e-mail: unis@unov.un.or.at) The accreditation form for the press and media is available from the web site of the Office for Outer Space Affairs: <http://www.un.or.at/OOSA/unisp-3/>

Executive Secretariat

Office for Outer Space Affairs
United Nations Office at Vienna*
Wagramerstrasse 5, A-1400 Vienna, AUSTRIA
Tel: +43 1 26060 4950
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e-mail: OOSA@unov.un.or.at
web site: <http://www.un.or.at/OOSA/unisp-3/>

B. Travel Information

Passport/Visa Requirements

All visitors need a valid passport. Citizens of member states of the European Union do not need visas. Those who are from other countries need to check on visa requirements in due time for entry into Austria. It may take two to three weeks to obtain visas.

Language, Currency and Credit Cards

The language spoken in Austria is German. The currency used is the schilling, designated ATS. The Schilling is divided into Groschen: 100 Groschen =

1 ATS. Most hotels, restaurants and shops accept internationally valid credit cards.

Climate

The average temperature during July is between 15 and 25 C, or 60 and 76 F. Heavy rain may occur at any time of the year.

Time Zone

Austria follows Central European Time, which is Greenwich Mean Time (GMT) + 2 during the conference period.

Electricity

The electric voltage is 220 volts (50 cycles). A standard voltage converter and plug adapter should be sufficient for conversions. Normally, the electrical outlets in Vienna require a two-prong plug with round prongs. Computer modems require a European plug adapter and phone jack adapter that can be easily purchased at an appliance store for about AS 20.

Shopping

Shops are generally open from 9:00 a.m. to 7:00 p.m. on weekdays and from 9:00 a.m. to 5:00 p.m. on Saturdays. Shops are closed on Sundays, except for supermarkets at the railway stations, some stations of suburban railway ("Schnellbahn") and the airport.

Pharmacies

Pharmacies are open from 8:00 a.m. to 6:00 p.m., with a break from 12:00 noon to 2:00 p.m. for most of them on weekdays, and from 8:00 a.m. to 12:00 noon on Saturdays. Besides those opening hours, there is a pharmacy service in each district whose address is indicated at the door of each pharmacy. There is also a pharmacy service at the VIC, from Monday through Friday, from 12:30 p.m. to 16:30 p.m.

Arrival at the International Airport of Vienna-Schwechat

Vienna International Airport is located about 16 km south-east of Vienna. Public transport to the city centre is provided by shuttle bus (Vienna Airport Services) to the Vienna City Air Terminal at Hotel Hilton, which is located across the street from a subway station and has a taxi stand in front. The shuttle bus leaves the airport outside the building of the arrival area every 20 minutes. Travel time is about 20 minutes. Shuttle bus service is also available between the airport and two major Vienna railway stations, the Westbahnhof and the Südbahnhof. The shuttle bus to those stations leaves the airport outside the building of the arrival area every 30 minutes. Travel time is about 40 minutes. The fare of the shuttle bus is ATS 70, which allows for 3 pieces of luggage per person. A taxi from the airport to the city centre costs approximately ATS 450.

Usage du tabac

Il est interdit de fumer dans l'enceinte de la Conférence et dans les salles de réunion du CIV, ainsi qu'à l'Austria Center. Dans l'ensemble du CIV, il est interdit de fumer sauf dans des zones clairement délimitées (bars des 2^e, 4^e et 7^e étages).

Téléphone mobile

L'utilisation des téléphones mobiles est interdite dans l'enceinte de la Conférence et dans les salles de réunion du CIV, ainsi qu'à l'Austria Center, durant les réunions. Il est demandé aux participants à la Conférence de bien vouloir débrancher leur téléphone mobile durant les réunions.

Stationnement

Des places de stationnement seront réservées aux participants à la Conférence à l'Austria Center. Pour des renseignements à ce sujet, s'adresser au bureau d'inscription du CIV et au bureau d'information de l'Austria Center.

Presse

Il est demandé aux membres de la presse qui souhaitent assister à la Conférence de prendre contact avec le Service de l'information de l'Organisation des Nations Unies (tél. : +43 1 26060 4666 ; fax : +43 1 26060 5899 ; courrier électronique : unis@unov.un.or.at). Il est possible de se procurer le formulaire d'accréditation pour la presse et les médias sur le site web du Bureau des affaires spatiales à l'adresse suivante : <http://www.un.or.at/OOSA/unisp-3/>

Secrétariat exécutif

Bureau des affaires spatiales
Office des Nations Unies à Vienne
Wagramer Strasse 5, A-1220 Vienne (Autriche)
Téléphone: +43 1 26060 4950
Télécopie: +43 1 26060 5830
Courrier électronique: OOSA@unov.un.or.at
Site web: <http://www.un.or.at/OOSA/unisp-3/>

B. Informations à l'intention des visiteurs

Passeport/Visa

Tous les visiteurs doivent être munis d'un passeport valide. Les ressortissants des États Membres de l'Union européenne n'ont pas besoin de visa. Les personnes originaires d'autres pays doivent vérifier si elles ont besoin d'un visa suffisamment à l'avance pour pouvoir entrer en Autriche. L'obtention d'un visa peut prendre de deux à trois semaines.

Langue, monnaie et cartes de crédit

La langue parlée en Autriche est l'allemand. La monnaie est le schilling, ou ATS. Le schilling est divisé en groschen. Il y a 100 groschen dans 1 schilling. La plupart des hôtels, des restaurants et des magasins acceptent les cartes de crédit internationales.

Climat

La température moyenne en juillet est de 15 à 25° C soit 60 à 76 °F. Des précipitations abondantes ne sont jamais exclues quelle que soit la saison.

Fuseau horaire

L'Autriche sera à l'heure d'Europe centrale, c'est-à-dire le temps universel (TU) + 2, au moment où se tiendra la Conférence.

Électricité

L'alimentation électrique est de 220 volts (50 cycles). Un transformateur de puissance standard et un adaptateur de prise devraient suffire. Les prises électriques à Vienne correspondent en général à une fiche comportant deux broches rondes. Pour les modems d'ordinateur, il faut un adaptateur pour prise et un adaptateur pour fiche téléphonique de type européen, que l'on peut facilement se procurer dans un magasin d'accessoires électriques pour environ 20 ATS.

Magasins

Les magasins sont généralement ouverts de 9 heures à 19 heures et, le samedi, de 9 heures à 17 heures. Les magasins sont fermés le dimanche, sauf les supermarchés dans les gares ferroviaires et certaines gares du métro aérien ("Schnellbahn"), ainsi qu'à l'aéroport.

Pharmacies

Les pharmacies sont ouvertes de 8 heures à 18 heures avec, pour la plupart, une fermeture de 12 heures à 14 heures. Le samedi, les pharmacies sont ouvertes de 8 heures à 12 heures. En dehors des heures d'ouverture et la nuit, il y a un service de garde dans chaque quartier dont l'adresse est affichée à la porte de chaque pharmacie. Il y a aussi un service pharmaceutique au CIV du lundi au vendredi, ouvert de 12 h 30 à 16 h 30.

Arrivée à l'aéroport international de Vienne-Schwechat

L'aéroport international de Vienne est situé à environ 16 kilomètres au sud-est de Vienne. Le transport public jusqu'au centre-ville est assuré par une navette (Vienna Airport Services) jusqu'au Vienna City Air Terminal de l'hôtel Hilton ; il y a une station de taxi juste devant et une station de métro de l'autre côté de la rue. La navette part de l'aéroport, devant le bâtiment des arrivées, toutes les 20 minutes. La durée du trajet est d'environ 20 minutes. Une navette spéciale entre l'aéroport et deux gares, Westbahnhof et Sudbahnhof, est disponible toutes les trente minutes. La durée du trajet est de 40 minutes. Le prix est de 70 ATS, avec transport de trois bagages par personne. Un taxi de l'aéroport au centre-ville coûte environ 450 ATS.

C. City of Vienna

The city of music, the city of history, the city of culture, the city of the baroque, the city of the architecture.....there are a lot of ways to express the city of Vienna. The city offers many opportunities for everyone. You can enjoy encountering history with every step. You will see the places where the Romans, Charlemagne, Emperor Maximilian, Empress Maria Theresa, Napoleon, Emperor Franz Josef influenced the course of history. Austria has many castles and palaces open to visitors. Great museums show you the most significant treasures from many periods and styles. You can treat yourself with spectacular scenery of vineyards, ancient castles and abbeys and enjoy a slow movement of time while strolling along the Danube. In the city of Vienna, the city of music, you will hear tunes of violins and flutes of music students, and you can immerse yourself in divine music of Mozart and sweet tunes of Strauss while sipping Viennese café at an old pastry shop.

Austria is a place where you can enjoy your life in a leisurely way, in this busy world. You can almost forget the flow of time and spend a relaxing time at a café, in a pastry shop, in an old wine tavern and at an outside beer garden. You can also enjoy shopping for world renowned handcrafted items, such as jackets and hats, as well as beautiful Austrian crystal and petit-point.

Cultural Events

Cultural activities in Austria never stop. During the time of the conference, there are Mozart open-air opera performances at the Roman ruin of the Schönbrunn Palace, summer operetta festivals at the cities of Baden, Bad Ischl and Mörbisch.

Never to forget is the world-famous Salzburg Festival, full of excellent concerts and opera performances night after night by top class orchestras, opera singers, pianists, violinists, etc., starting from 24 July this year.

The conference takes place in a special year for the Viennese Waltz, the centenary of the Waltz King, Johann Strauss. It also coincides with the 150th anniversary of the death of his father, Johann Strauss. The father and son led the golden age of the Viennese operetta and the waltz. During the conference period, there are many cultural events to commemorate Johann Strauss. The world's most-performed operetta, *Die Fledermaus*, is scheduled at the Schönbrunn Palace Theatre. The festival at Mörbisch features another Strauss operetta, *Eine Nacht in Venedig* (A Night in Venice), at the stage on the lake. KlangBogen presents *Wiener Blut* (Viennese Blood), one of the most famous operettas of Strauss. The Admiral Tegetthoff takes you to a cruise on the Danube, with The Sound of Johann Strauss performed by a quartet on board.

D. Reservation for Hotel Accommodation, Optional Tours and Programme for Accompanying Persons

Arrangements for hotel rooms, optional tours for the participants as well as programmes for accompanying persons will be made by Austropa Interconvention. To obtain reservation forms and any other details of the hotel accommodation and optional tours, please contact:

**Austropa, Interconvention,
Österreichisches Verkehrsbüro AG,
Währinger Straße 6-8, A-1090 Vienna
(tel: +43 1 316 8012; fax: 43 1 315 5650;
e-mail: austropa.congress@verkehrsbuero.at)**

The information desk of the Austropa will be operated at the ACV on Monday and Tuesday, 19 and 20 July from 9 a.m. to 2 p.m.

The host country committee for the conference has designated Austrian Airlines as official carrier.

The United Nations wishes to acknowledge the special host country contributions made to the Conference and its special events by:

Mag. Viktor KLIMA,	Federal Chancellor of Austria
Dr. Wolfgang SCHÜSSEL,	Vice Chancellor and Federal Minister of Foreign Affairs of Austria
Dr. Caspar EINEM,	Federal Minister of Science and Transport
Dr. Wolfgang FARNLEITNER,	Federal Minister for Economic Affairs
Mr. Karl STIX,	Governor of the Burgenland
Dr. Michael HÄUPL,	Governor and Mayor of Vienna
Dr. Alfred STINGL,	Mayor of Graz
Dr. Peter JANKOWITSCH,	Ambassador, Austrian National Coordinator for UNISPACE III

The United Nations also wishes to acknowledge the support provided by: National Space Development Agency of Japan, National Oceanic & Atmospheric Administration of the United States, European Space Agency, Centre National d'Etudes Spatiales of France and British National Space Centre of The United Kingdom.

C. La ville de Vienne

Ville de la musique, ville d'histoire, ville de culture, ville du baroque, ville de l'architecture... il y a bien des façons de qualifier la ville de Vienne. La ville offre de nombreuses possibilités à chacun. Vous pourrez à chaque pas vous remémorer l'histoire. Vous verrez les lieux où les Romains, Charlemagne, l'Empereur Maximilien, l'Impératrice Marie-Thérèse, Napoléon ou l'Empereur François-Joseph ont écrit l'histoire. Quantité de châteaux et de palais en Autriche peuvent être visités. Les grands musées vous permettront d'admirer les trésors les plus représentatifs de périodes et de styles divers. En vous promenant le long du Danube, vous pourrez profiter du panorama spectaculaire des vignobles, des châteaux et des abbayes du temps passé et flâner agréablement. Dans la ville de Vienne, cité de la musique, vous entendrez de jeunes musiciens jouer du violon et de la flûte et vous pourrez vous immerger dans la divine musique de Mozart et dans les douces mélodies de Strauss tout en savourant un café viennois dans une pâtisserie traditionnelle.

L'Autriche est un pays où l'on peut prendre le temps de profiter de la vie dans un monde bourdonnant d'activité. Vous pourrez presque oublier le temps qui s'écoule en passant d'agréables moments dans un café, dans une pâtisserie, dans une ancienne taverne ou sous une tonnelle. Vous pourrez aussi acheter des produits faits à la main réputés dans le monde entier, par exemple des vêtements ou des chapeaux, ainsi que de magnifiques objets de cristal ou des ouvrages en petit-point fabriqués en Autriche.

Vie culturelle

En Autriche, la vie culturelle est foisonnante. Au moment où se tiendra la Conférence, il y aura des représentations en plein air d'opéras de Mozart à la ruine romaine du palais de Schönbrunn et des festivals d'opérettes à Baden, Bad Ischl et Mörbisch. On se doit de mentionner aussi le festival de Salzburg, de réputation mondiale, durant lequel des concerts et des représentations d'opéra exceptionnels sont assurés chaque soir par des orchestres, des chanteurs, des pianistes, des violonistes, etc. de premier plan. Le festival débute cette année le 24 juillet.

La Conférence se déroule durant une année toute particulière pour la valse viennoise, puisqu'elle marque le centenaire du roi de la valse, Johann Strauss. Elle coïncide aussi avec le 150^e anniversaire du décès du père de celui-ci, Johann Strauss. C'est autour du père et du fils que s'est développé l'âge d'or de l'opérette et de la valse à Vienne. Alors que se tiendra la Conférence, il est prévu de nombreuses manifestations culturelles pour commémorer Johann Strauss. L'opérette la plus représentée dans le monde, Die Fledermaus, sera jouée au théâtre du palais de Schönbrunn. Le festival de Mörbisch a inscrit à son programme une autre opérette de Strauss, Eine Nacht in Venedig (Une nuit à Venise) qui sera représentée sur une scène installée sur le lac. Dans le cadre du festival KlangBogen, l'une des plus célèbres opérettes de Strauss, Wiener Blut (Sang viennois), sera présentée. Sur le bateau Admiral Tegetthoff, vous ferez une croisière sur le Danube, pendant qu'un ensemble de quatre musiciens jouera The Sound of Johann Strauss.

D. Réservations de chambres d'hôtel, visites facultatives et programme à l'intention des personnes accompagnant les participants

Les réservations de chambres d'hôtel et de visites facultatives seront assurées par l'organisme Austropa Interconvention. Pour obtenir des formulaires de réservation et d'autres renseignements sur les chambres d'hôtel et les visites facultatives, il est recommandé de contacter:

**Austropa, Interconvention,
Österreichisches Verkehrsbüro AG,
Wahringer Straße 6-8, A-1090 Vienna
(tel: +43 1 316 8012; fax: 43 1 315 5650;
e-mail: austropa.congress@verkehrsbuero.at)**

Le bureau d'information Austropa à l'Austria Center sera ouvert le lundi 19 juillet et le mardi 20 juillet de 9 heures à 14 heures.

Le comité du pays d'accueil de la Conférence a désigné la compagnie Austrian Airlines compagnie de transport officielle.

OPTIONAL TOUR PROGRAMME

Austropa Interconvention offers guided tours before and during the conference. Each sightseeing tour requires a minimum number of 25 participants. Austropa Interconvention reserves the right to cancel tours before the beginning of the congress, should the minimum number not be reached. All tours are accompanied by English speaking guides. All tours are subject to change!

All tours start and end at the Opera if not stated otherwise.

If you wish to participate in any of the described tours, please fill in the appropriate space on the Hotel & Tour Reservation Form.

Historical City Tour with Schönbrunn Palace

Ring-Schönbrunn Palace-Belvedere

*Departure on July 20, 1999 at 10.30 a.m.,
duration approx. 3,5 hours*

This tour will give you an overall impression of the most significant historical sights of Vienna. We show you the Ringstraße with its magnificent buildings, such as the Museum of Applied Arts, the State Opera House, the Museum of Fine Arts and the Museum of Natural History, the Hofburg, the Parliament, the City Hall, the Burgtheater, the University as well as the Votive Church. You will also see the Giant Ferris Wheel at the Viennese amusement park called "Prater". The highlight of this tour will be a visit of the showrooms of Schönbrunn Palace. In this former summer residence of the Habsburg family lived e.g. Maria Theresia. On the way back to the opera we also take you to the Belvedere Palace, the former summer residence of Prince Eugen.

*Price per person, incl. bus tour,
guide and entrance fees ATS 400,-*

Tour: Art Nouveau in Vienna

*Departure on July 21, 1999 at 9.00 a.m.,
duration approx. 3 hours*

At the turn of the century the new decorative architectural style became very popular and changed the cityscape. The architects Josef

Austropa Interconvention is the official travel and accommodation agent for Unispace. Austropa Interconvention is offering services which include hotel accommodation and tours in and outside Vienna. All participants are kindly requested to apply for room and tour reservation with the enclosed Hotel & Tourreservation form. Please contact the travel agent directly.

AUSTROPA INTERCONVENTION

Währinger Str. 6-8, A- 1090 Vienna

Tel.: ++43 1 316 80 12, FAX: ++43 1 315 56 50

e-mail: austropa.congress@verkehrsbuero.at

HOTEL RESERVATION

Austropa Interconvention has pre-booked rooms at various hotels in different hotel categories for congress participants, which will be allocated without processing fee.

Please indicate your arrival and departure dates and the desired hotel category on the enclosed form. Your credit card or mentioned hotel deposit is required to secure the room. Upon receipt of your order with payment, a confirmation and the hotel voucher with name and address of the hotel will be sent. Hotel charges will amount to the number of overnights to this booking.

Changes and cancellations of confirmed rooms must be sent in writing to Austropa Interconvention. For cancellations or changes prior to two weeks of the arrival date a handling fee of ATS 300,- per booking will be charged. A cancellation fee equal to two nights will be charged for any room cancelled after that date or non-occupation of the room on the booked day of arrival.

Hotel Category	DeLuxe*****	A**** Sup.	A****	B***	C**	D*
Single room bath or shower / WC	1.980,-/ 2.420,-	1.750,-	1.100,-/ 1.590,-	830,- / 1.050,-	400,-/ 550,-	275,-/390,- facilities on the corridor
Double room bath or shower / WC	1.980,-/ 2.690,-	2.150,-	1.600,-/ 2.200,-	1.160,-/ 1.600,-	700	470,- facilities on the corridor
Hotel deposit	5.000,-	4.500,-	3.500,-	2.500,-	1.000,-	800,-

Hoffmann, Adolf Loos and Otto Wagner are the most famous representatives of this style. The Post Office Savings Bank, the Majolica House with its ornamented facade and the Stadtbahn station pavillions bear witness to the great architect and urban planner Otto Wagner (1841-1918). Highlight of this tour is a guided visit to the church am Steinhof with its coppercovered dome and glass mosaics, one of his masterpieces, planned to the needs of sick persons.

Price per person, incl. bus tour, guide and entrance feesATS 340,-

Excursion: "Wienerwald - Heiligenkreuz"

Departure on July 22, 1999 at 02.00 p.m., duration of the tour approx. 4 hours

On this halfday bus tour visitors explore the "Wienerwald" south of Vienna. Passing through Mödling, known for its numerous sights of the 15th and 16th centuries as well as for having been the residence of Beethoven, Schubert, Grillparzer and others, one arrives at the bottom of Liechtenstein Castle, the only large secular monument of the romanesque period in Lower Austria. The main attraction of this excursion is the Cistercian Abbey at Heiligenkreuz, founded 1135/36 by Leopold III of Babenberg. The excursion continues driving by the Carmelite Convent, which used to be the hunting lodge of Crown Prince Rudolph von Habsburg in Mayerling, and the Helenental to Baden. On the way back to Vienna we drive through Gumpoldskirchen, a well-known wine-producing area.

Price per person, incl. bus tour, guide and entrance feesATS 350,-

Excursion: "Kahlenberg - Klosterneuburg"

Departure on July 26, 1999 at 02.00 p.m., duration of the tour approx. 4 hours

On the way to the Danube the bus drives through the north eastern part of the city offering a magnificent view of the hills surrounding Vienna, the so called "Wienerwald". Via the scenic route and passing through some well-known Heurigen villages, you reach the Kahlenberg. This lookout offers a good view of the entire city. The bus tour continues to Klosterneuburg, the first residence of the Babenberg family in the area of Vienna during the early medieval times. The most prominent site to visit is the Abbey of the Augustinian Friars, founded before 1108. The unique romanesque Verdun Altar with its 51 enamelled tablets by Nikolaus von Werden, dated 1181, is the most valuable piece of art in the abbey.

Price per person, incl. bus tour, guide and entrance feesATS 350,-

Walking tour: "Old Vienna"

Departure on July 27, 1999 at 09.30 a.m., Schwedenplatz, in front of McDonald's, duration of the tour approx. 2 hours

During this walk guests will visit parts of "Old Vienna" that cannot be reached by bus. Walking through the Jewish quarter one passes the oldest church of Vienna, the Ruprechtskirche, said to be founded in 740 and for the first time officially mentioned in 1161. Medieval narrow streets are lead to Saint Stephen's Cathedral where one can explore its numerous cultural and artistic sights. Close by is the "House of Figaro", where Wolfgang Amadeus Mozart lived when he composed the opera "The Marriage of Figaro".

Price per person, guideATS 220,-

Hundertwasser Kunsthaus & Augarten China Manufactory

Departure on July 28, 1999 at 09.30 a.m., duration of the tour approx. 3 hours

Painter Friedensreich Hundertwasser bought a former factory building and remodeled it completely in the colourful design he had developed for a nearby apartment project. Opened in 1991, one floor presents a survey of the master's lifetime oeuvre. This most bizarre art center with "tree inhabitants" is a journey into the land of creative architecture, a melody for feet and eyes. We continue the tour to visit the Augarten Palais with the second oldest china manufactory in Europe. Many of the common designs date back to the times of Empress Maria Theresia who recognized the importance of creative craftsmanship for economy.

Price per person, incl. bus tour, guide and entrance feesATS 400,-

Tour: In the Footsteps of Great Musicians

Departure on July 29, 1999 at 9.00 a.m., duration approx. 3 hours

This tour takes you to various memorial sites of famous musicians, who lived and worked in Vienna: Franz Schubert's birthplace and museum at Nussdorferstraße, the residence of Johann Strauss, where he wrote the Blue Danube Waltz, Beethoven's Memorials such as his apartment in Heiligenstadt, Probusgasse No. 6, where he wrote the Heiligenstädter Testament or the Eroica-House. Proceeding along the small Danube one arrives at the St. Marxer Cemetery, a Biedermeier park showing Mozart's tomb. Returning to the centre of Vienna one passes the Waisenhauskirche, where 12 year old Wolfgang Amadeus Mozart composed and conducted a celebration mass for the consecration of the church in 1768. Three of these memorials will be visited.

Price per person, incl. bus tour, guide and entrance feesATS 340,-

Vienna Woods-Mayerling Heiligenkreuz-Subterranean Lake

*Departure on July 30, 1999 at 9.30 a.m.,
duration approx. 4 hours*

A half-day excursion which shows you the most beautiful sights of the southern part of the Vienna Woods. Passing the Roman City of Baden which is famous for its thermal springs we take you through the the romantic valley Helenental to the former Mayerling hunting lodge, today a commemorative chapel, where the Crown Prince Rudolph, the only son of Emperor Franz Joseph, committed suicide with Baroness Vetsera in 1889. In the Cistercian Abbey of Heiligenkreuz (1133) you visit the medieval cloister which houses the remains of the last Babenberger. Driving by the Hölzdrichsmühle where Franz Schubert composed his song The Lindentree, you arrive at the Seegrotte. From there, after a boat ride on the largest subterranean lake in Europe you leave the Vienna Woods and return to Vienna, passing the Liechtenstein Castle. The tour ends at the State Opera House.

*Price per person, incl. bus tour,
guide and entrance feesATS 500,-*

1-DAY EXCURSIONS

Excursion to the Wachau

*Departure on Friday, July 23, 1999 at 09.00 a.m.,
duration of the tour approx. 9 hours*

In the charming countryside along the Danube about 80km west of Vienna, visitors find many monuments as well as vineries of ancient tradition. The Benedictine Monastery of Melk in its unique splendour and situated on a rock, overlooking the Danube valley, is one of Austria's greatest sights. Discover the medieval town of Dürnstein with its picturesque monastery tower in blue and white and the "Kuenringer" fort. Richard the Lionhearted, King of England, was prisoner at the fort in 1192/93.

*Price per person, incl. lunch, bus tour,
guide, boat trip and entrance feesATS 950,-*

Tour: Puszta-Burgenland Boating Cruise on the Lake Neusiedl-Hungarian Border-Gipsy Music

*Departure on Saturday, July 24, 1999 at 9.30 a.m.,
duration approx. 8 hours*

The excursion acquaints you with the characteristic culture of the wining growing countryside near the Hungarian border, moulded in the course of history by various people. Passing the the castle of Laxenburg you reach Eisenstadt, the capital of Burgenland, where you will visit the Mausoleum of Joseph Haydn in the Bergkirche with the Joseph Haydn Mausoleum. After passing the Roman Quarry of St. Magarethen you arrive in Rust. Then on the Lake Neusiedl, Europe's largest steppe lake, which shelters in ist protected reed belt an unique paradise of birds. We invite you on a boat cruise, taking you close to the hungarian border. From the lakeside town Mörbisch we drive back to Vienna.

*Price per person, incl. bus tour, guide,
boat trip and entrance feesATS 800,-*

Castles of the Marchfeld

*Departure on Friday, July 30, 1999 at 09.00 a.m.,
duration of the tour approx. 8 hours*

In the middle of the productive land of Marchfeld near the Danube river, many splendid castles are located. Over a long period of time they were the center of the courtly country life. During a guided tour at the hunting lodge of "Eckartsau", you see beautiful frescos, painted by Daniel Gran, as well as the original furniture from the imperial family of Karl I.

Close by are the famous baroque palaces "Schlosshof" and the castle "Niederweiden", built by Prince Eugene of Savoye. At that time "Schlosshof" had the most beautiful gardens in baroque style. The tour includes a visit to one of the two castles that host temporary exhibitions. In the afternoon we cross the Danube and pay a visit to the archeological park of Carnuntum, Roman military camp and antique civilian city.

*Price per person, incl. bus tour,
guide and entrance feesATS 920,-*

2-DAY EXCURSIONS

Excursion Salzburg - The City of Mozart

*Departure on Saturday, July 24, 1999
at 08.00 a.m.,
Tour ends on Sunday, July 25, 1999
approx. 8.00 p.m.*

This tour will bring you to Salzburg, native town of Wolfgang Amadeus Mozart, and its lovely surroundings. You will get acquainted with some of the most important sights of this old episcopal town in the course of a city tour and a guided walk through the city.

You will visit the fortress "Hohensalzburg", from where you get a view over the wonderfull "town of Mozart", the river Salzach and the beautiful landscape of Salzburg's land. Further you will see Mozart's place of birth in the well-known shopping street "Getreidegasse", the famous Cathedral of Salzburg, the "Festspielhaus" (a multi cultural center) as well as numerous beautiful churches such as the venerable abbey of St. Peter.

Rooms with bath or shower/WC, category A: incl. breakfast and 2 meals, small lunch, bus, English speaking guide, sightseeing walk and entrance fees

Price per person, in a double room . . .ATS 3.300,-

Price per person, in a single room . . .ATS 3.600,-

Excursion Prague*Departure on Saturday, July 31, 1999**at 08.00 a.m.,**Tour ends on Sunday, August 1, 1999**approx. at 08.00 p.m.*

After a drive through the characteristic landscape of Moravia you reach Prague, the golden city on the river Moldavia, the economic and cultural centre of Bohemia. During a city tour you will be shown the Hradshin, the St. Veits' Cathedral, the Goldsmiths' Lane, the Charles Bridge as well as the Jewish cemetery and the old quarters of Prague. In the evening of the first day you get spoiled by the excellent "Bohemian Kitchen" at a typical bohemian restaurant.

Rooms with bath or shower/WC in middle class category incl. half board, dinner, bus English speaking guide, sight seeing walk and entrance fees.

Price per person, in a double room . . . ATS 3.700,-

Price per person, in a single room . . . ATS 4.060,-

Full payment in advance is necessary for social programmes. On receipt of your payment, you will be sent a confirmation of your booking. Vouchers and invoice will be handed to you at the travel desk at the conference centre. Lost or misplaced tickets cannot be replaced.

Cancellation of booked tours must be addressed in writing to Austropa Interconvention.

Cancellation before June 15, 1999 are without charges. Until July 5, 1999 50% cancellation fee has to be charged. No refund can be made after July 6, 1999. Refunds will be made after the congress.

Programme changes are reserved. If a trip is cancelled by the Austropa Interconvention the charge paid will be refunded in full after the conference.

GENERAL INFORMATION:**Currency and Credit Cards:**

The Austrian currency is the Schilling (ATS). Most hotels, restaurants and shops accept internationally valid credit cards.

Passport and Visa:

Check passport and visa requirements in due time before you leave. Please ask the nearest consulate whether you need a visa for entering Austria, Hungary and Czech Republic. Citizens of member states of the European Union and the USA do not need visas.

Bank:

Monday to Friday:

08.30 a.m. - 12.30 p.m. and 01.30 p.m. - 03.00 p.m.

Closed on Saturday and Sunday.

Shopping:

Shops are generally open from

09.00 a.m. - 06.00 p.m. on weekdays and from

09.00 a.m. - 01.00 p.m. on Saturdays.

Several larger shops and shopping centres are open to 09.00 p.m. and to 05.00 p.m. on Saturdays. Shops remain closed on Sundays.

Arrival at the International Airport of Vienna-Schwechat

Vienna International Airport is located about 16 km south-east of Vienna. Public transport to the city center is provided by frequent bus connections (Vienna Airport Services) to the Vienna City Air Terminal at Hotel Hilton (Am Stadtpark/Landstraße Hauptstraße, 3rd district) where taxis and public transportation (subway lines U3, U4) are available. Busses leave the airport outside of the arrival building three times per hour every 20 minutes. Travelling time is about 20 minutes, the fare is currently ATS 70,- and includes 3 pieces of luggage.

A transfer to your hotel by shuttle (approx. ATS 200,- per person) can be ordered at the MAZUR Desk in the Arrival Hall, near to Baggage Retrieval.

A taxi from the Airport to the City Centre costs approx. ATS 400,- per trip.

Public Transport:

Vienna offers an extensive travel network by Underground, tram and bus. One week tickets sold from dispensers in the larger stations or at the ticket counters and in the tobacco kiosks.

Climate:

The weather in August normally has approx. 25-30°C by day, cooler at night.

Electricity:

The main voltage in Austria is 220 VAC.

Insurance, Liability:

Austropa Interconvention cannot be held liable for accidents, loss of valuables, etc. during the Conference. Participation in all excursions, tours etc. at own risk.

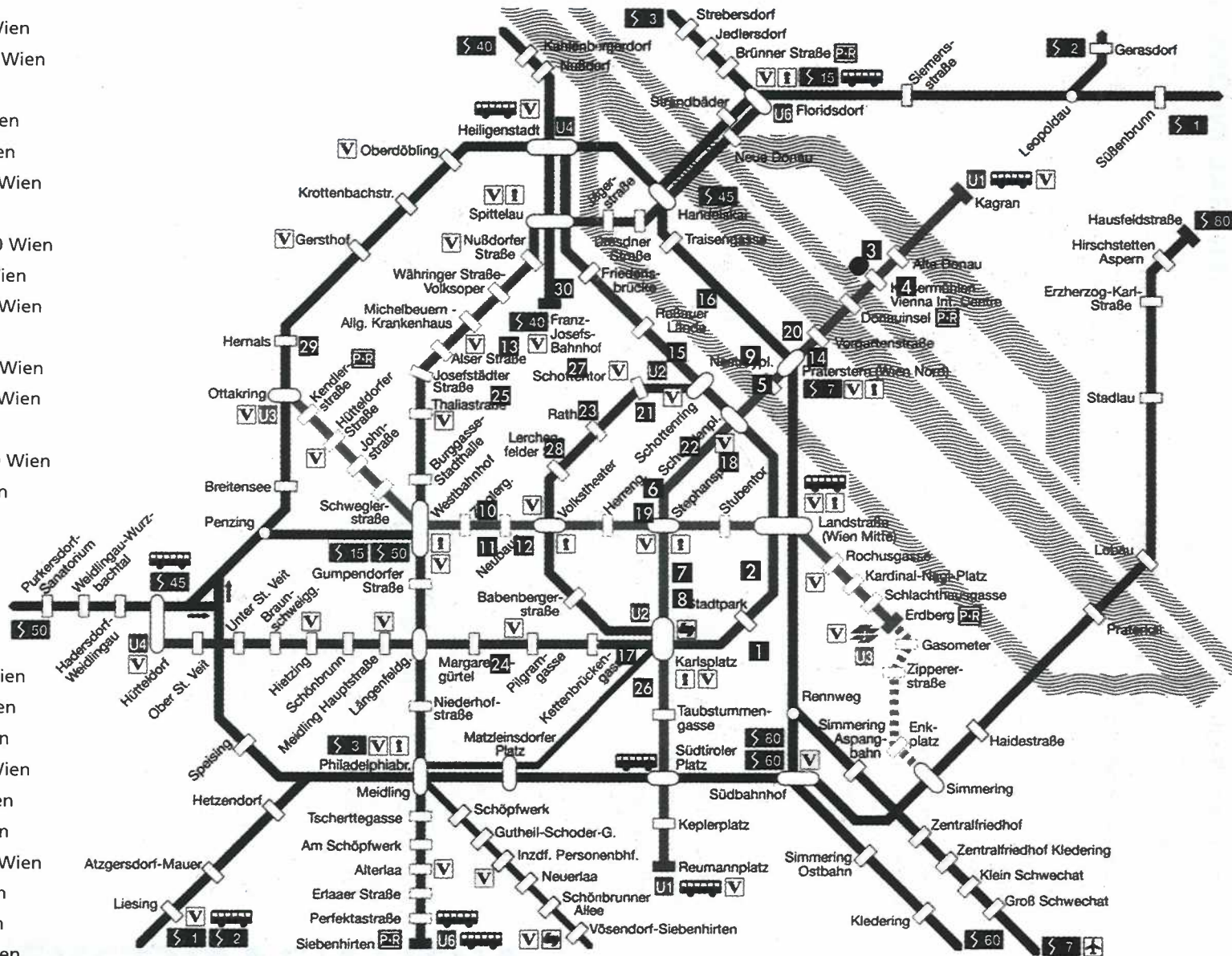
AUSTROPA INTERCONVENTION

ACCOMMODATION

- 1 Inter-Continental***** Johannesgasse 28, 1037 Wien
- 2 Vienna Marriott***** Parkring 12 a, 1010 Wien
- 3 Hotel Forum**** Sup. Wagramer Str. 21, 1220 Wien
- 4 Country Inn**** Wagramer Str. 16 a, 1220 Wien
- 5 Mercure City**** Hollandstr. 3, 1020 Wien
- 6 Mercure Zentrum**** Fleischmarkt 1 a, 1010 Wien
- 7 Europa**** Kärntner Str. 18, 1015 Wien
- 8 Astoria**** Kärntner Str. 32-34, 1015 Wien
- 9 Stefanie**** Taborstr. 12, 1020 Wien
- 10 Astron Suite**** Mariahilferstr. 32-34, 1070 Wien
- 11 Atterseehaus**** Mariahilferstr. 78, 1070 Wien
- 12 Kummer**** Mariahilferstr. 71 a, 1070 Wien
- 13 Alexander*** Augasse 15, 1090 Wien
- 14 Wilhelmshof*** Kl. Stadtgutgasse 4, 1020 Wien
- 15 Deutschmeister*** Grünentorgasse 30, 1090 Wien
- 16 Tabor City*** Taborstr. 25, 1020 Wien
- 17 Drei Kronen*** Schleifmühlgasse 25, 1040 Wien
- 18 Kärntnerhof*** Grashofgasse 4, 1011 Wien
- 19 Wandl*** Petersplatz 9, 1010 Wien
- 20 Nordbahn*** Praterstr. 72, 1020 Wien

- 21 Pension Residenz*** Ebendorferstr. 10, 1010 Wien
- 22 Pension City*** Bauernmarkt 10, 1010 Wien
- 23 Pension Baronesse*** Lange Gasse 61, 1080 Wien
- 24 Haus Margareten** Margaretenstr. 30, 1040 Wien
- 25 Hotel Vindobona** Laudongasse 36, 1080 Wien
- 26 Haus Technik** Schäffergasse 2, 1040 Wien
- 27 Ambiente** Boltzmanngasse 10, 1090 Wien
- 28 Auersperg** Auerspergstr. 9, 1080 Wien
- 29 Guesthouse Hernals* Sautergasse 34, 1170 Wien
- 30 Auge Gottes* Nussdorferstr. 75, 1090 Wien

• Conference Centre



UNISPACE III

19 - 30 JULY 1999

VIENNA, AUSTRIA



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HOTEL & TOUR RESERVATION

PARTICIPANT

Surname	First name	Title	
Street	Zip	City	Country
Institution			
Phone	Fax	e-mail	

HOTEL RESERVATION

Austropa Interconvention has been entrusted with the reservation of hotel rooms. All participants are kindly requested to apply for room reservation with the application form below. Please indicate the exact dates of your arrival and departure as well as your preferred hotel category. Your credit card guarantee or hotel deposit is required to secure your reservation. Upon receipt of your order with credit card guarantee or hotel deposit, a confirmation and the hotel voucher with name and address of the hotel will be sent. Should a requested hotel no longer be available, Austropa Interconvention reserves the right to book accommodation in a similar price range.

Changes and cancellations of confirmed rooms must be sent in writing to Austropa Interconvention. For cancellations or changes prior to two weeks of the arrival date a handling fee of ATS 300,- per booking will be charged. A cancellation fee equal to two nights will be charged for any room cancelled after that date or non-occupation of the room on the booked day of arrival.

Book as soon as possible since July is a high season in Vienna and rooms will be reserved on a first come/ first served basis.

Hotel category	DeLuxe*****	A**** Sup.	A****	B***	C**	D*
Single room	1.980,-/ 2.420,-	1.750,—	1.100,-/ 1.590,-	830,-/ 1.050,-	400,-/ 550,-	275,-/ 390,-
Double room	1.980,-/ 2.690,-	2.150,—	1.600,-/ 2.200,-	1.160,-/ 1.600,-	700,-	470,-
Deposit p. room	5.000,-	4.500,-	3.500,-	2.500,-	1.000,-	800,-

Approximate rates in Austrian Schillings, per room/night with bath or shower/WC, including breakfast, taxes and charges.
 Category D*: Facilities are on the corridor

HOTEL: 1st choice _____ 2nd choice _____ 3rd choice _____

I share my double room with: _____

Special requests: _____

HOTELBOOKING

ATS

I book:

☐ _____ single room

☐ _____ double room

Arrival date _____

Departure date _____

Category/deposit per room:

☐ DeLuxe***** ATS 5.000,-

☐ A**** Sup. ATS 4.500,-

☐ A**** ATS 3.500,-

☐ B*** ATS 2.500,-

☐ C** ATS 1.000,-

☐ D* ATS 800,-

Hotel charges will amount to the number of overnights according to this booking.

OPTIONAL TOUR PROGRAMME

ATS

SIGHTSEEING TOURS:

<input type="checkbox"/> Historical City Tour incl. Schönbrunn, July 20, 1999	10.30 a.m. p. pers. ATS 400,-	___ pers	_____
<input type="checkbox"/> Art Nouveau in Vienna, July 21, 1999	09.00 a.m. p. pers. ATS 340,-	___ pers	_____
<input type="checkbox"/> Wienerwald-Heiligenkreuz, July 22, 1999	02.00 p.m. p. pers. ATS 350,-	___ pers	_____
<input type="checkbox"/> Kahlenberg-Klosterneuburg, July 26, 1999	02.00 p.m. p. pers. ATS 350,-	___ pers	_____
<input type="checkbox"/> Walking Tour: Old Vienna, July 27, 1999	09.30 a.m. p. pers. ATS 220,-	___ pers	_____
<input type="checkbox"/> Hundertwasser Kunsthaus, July 28, 1999	09.30 a.m. p. pers. ATS 400,-	___ pers	_____
<input type="checkbox"/> In the Footsteps of Great Musicians, July 29, 1999	09.00 a.m. p. pers. ATS 340,-	___ pers	_____
<input type="checkbox"/> Vienna Woods-Mayerling, July 30, 1999	09.30 a.m. p. pers. ATS 500,-	___ pers	_____

1-DAY EXCURSIONS:

<input type="checkbox"/> Excursion to the Wachau, July 23, 1999	09.00 a.m. p. pers. ATS 950,-	___ pers	_____
<input type="checkbox"/> Puszta-Burgenland, July 24, 1999	09.30 a.m. p. pers. ATS 800,-	___ pers	_____
<input type="checkbox"/> Castles of the Marchfeld, July 30, 1999	09.00 a.m. p. pers. ATS 920,-	___ pers	_____

2-DAY EXCURSIONS:

<input type="checkbox"/> Excursion Salzburg, July 24 - 25, 1999	p. pers. ATS 3.300,-/ double room	___ pers	_____
<input type="checkbox"/>	p. pers. ATS 3.600,-/ single room	___ pers	_____
<input type="checkbox"/> Excursion Prague, July 31 - August 1, 1999	p. pers. ATS 3.700,-/ double room	___ pers	_____
<input type="checkbox"/>	p. pers. ATS 4.060,-/ single room	___ pers	_____

TOTAL:

Special requests: _____

Full payment in advance is necessary for optional programmes. On receipt of your payment, you will be sent a confirmation of your booking. Vouchers, travel documents and invoice will be handed to you at the booking desk at the conference center.

Cancellation for tours: This must be addressed in writing to Austropa Interconvention. Cancellation before June 15, 1999 are without charges. Until July 5, 1999 50% cancellation fee has to be charged. No refund can be made after July 6, 1999. Refunds will be made after the congress.

PAYMENT

The amount of ATS _____ was sent by:

☐ **Bank transfer** (free of charges for the recipient) to the Austropa Interconvention account no. 0035/14775-00 at Creditanstalt-Bankverein, Vienna, bank code 11000. Please remember to include the participant's name and the reference UNISPACE

☐ **Enclosed Euro- or bankcheque** in ATS drawn on Austropa Interconvention (issued in Vienna)

☐ Please charge my **credit card**

☐ Diners

☐ Mastercard

☐ Visa

☐ American Express

No. _____ Expiry date _____

I accept all booking and cancellation conditions.

Date _____ Signature _____

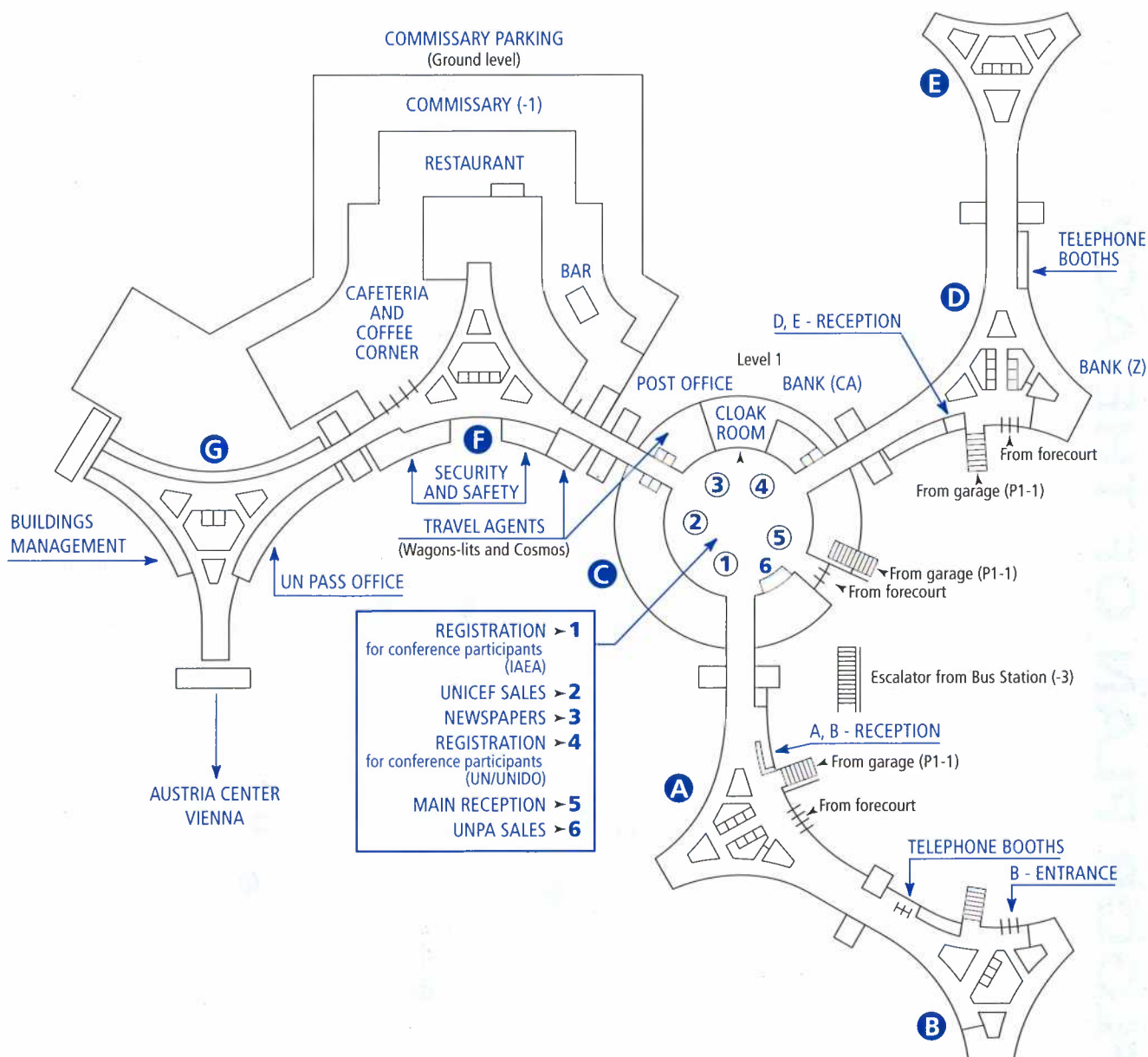
LIABILITY: Austropa Interconvention acts as agent only and cannot be held responsible for any loss, injury or damage to any person or property whatever the cause may be. The liability of persons or enterprises providing means of transportation or other services, however, remains unaffected. The customer takes part in all tours and trips at his own risk. Only written arrangements are binding. Sole venue is Vienna. We kindly ask you to authorize us by your signature to use all registration data given on the form for a computerized handling of the congress.

Your Partner in Space

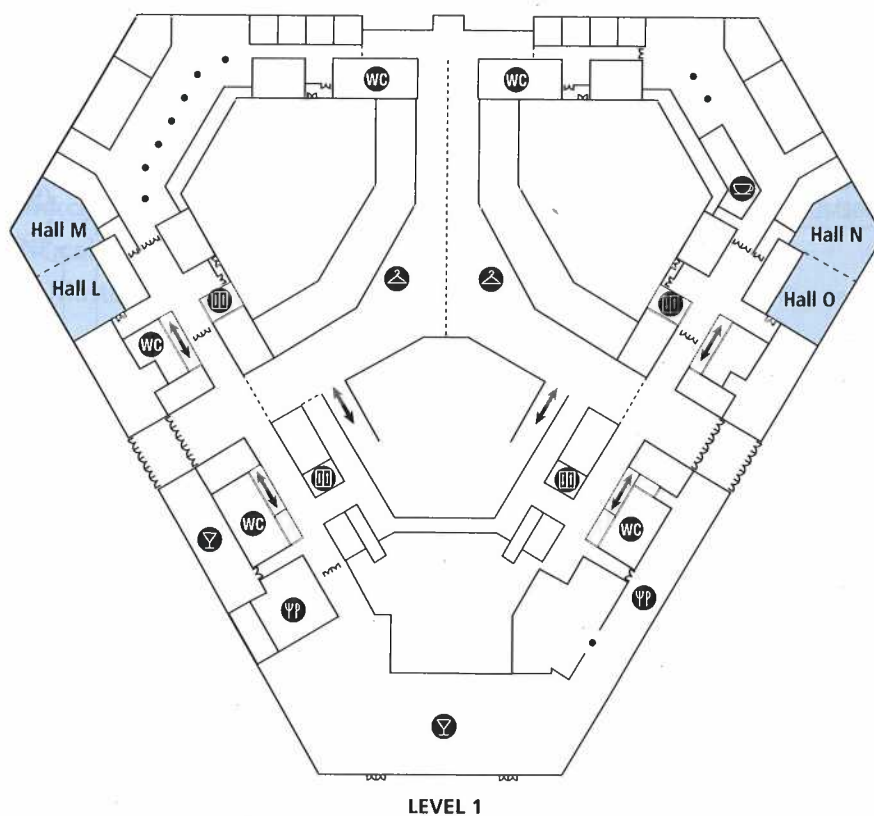
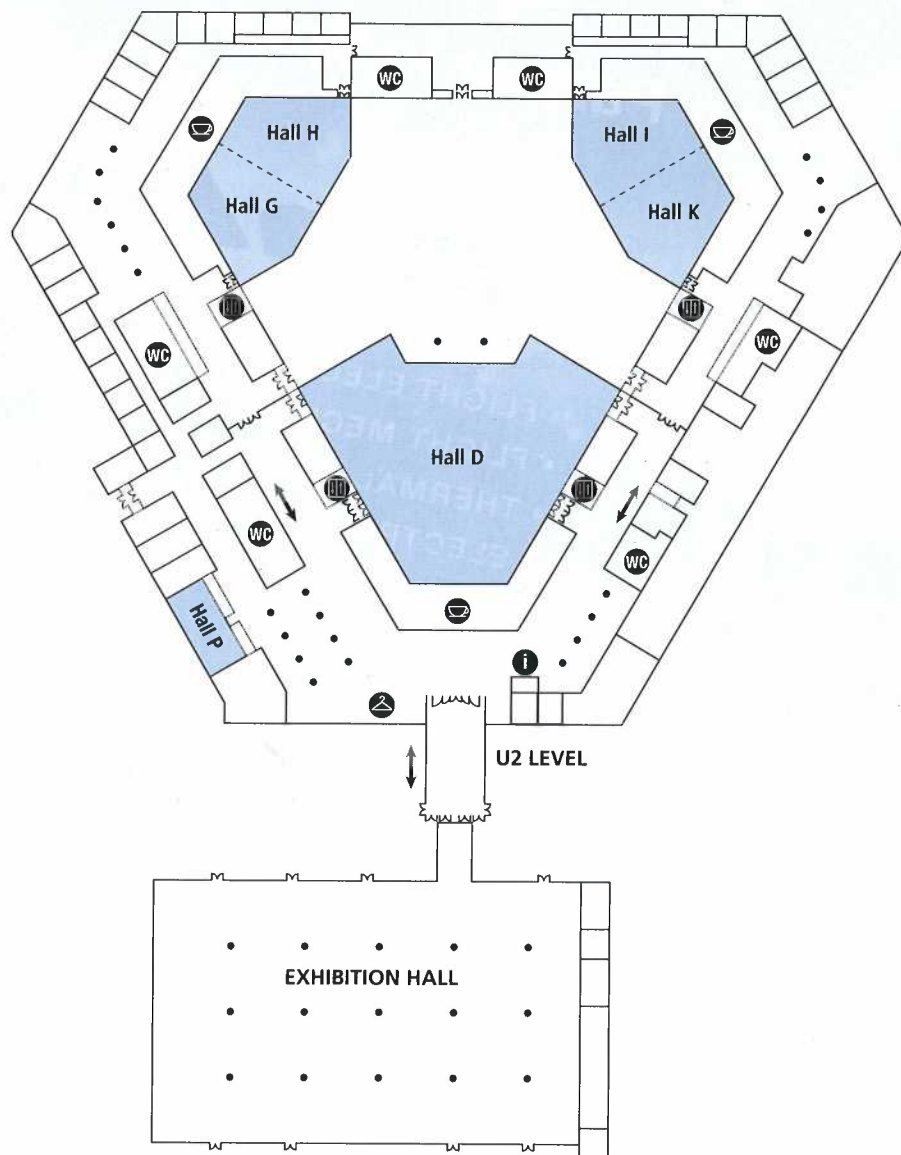
Austrian Aerospace

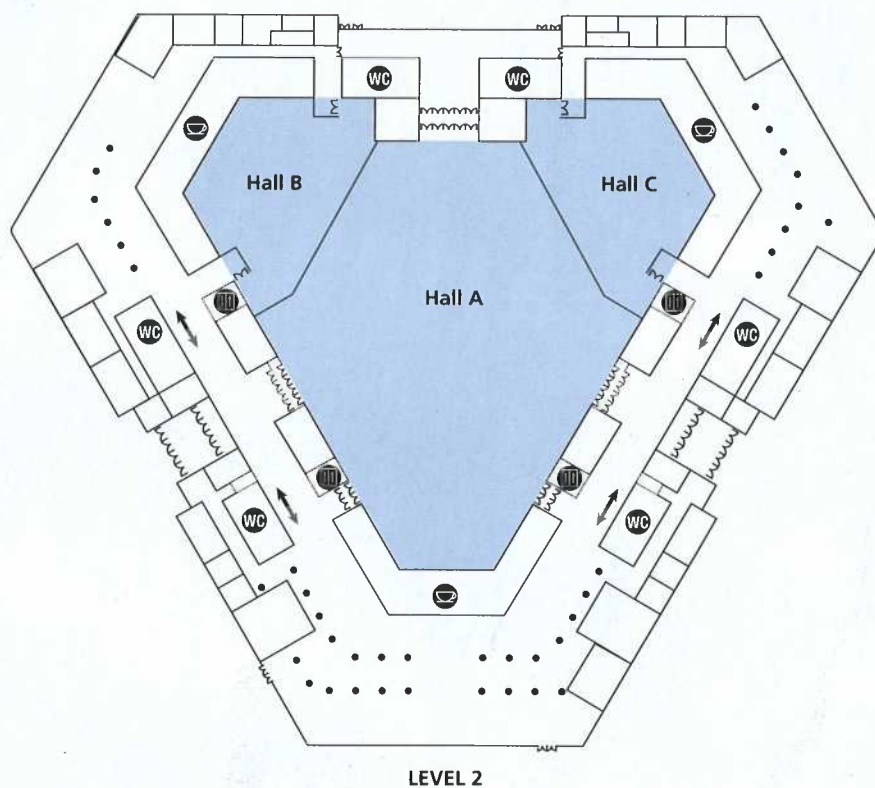
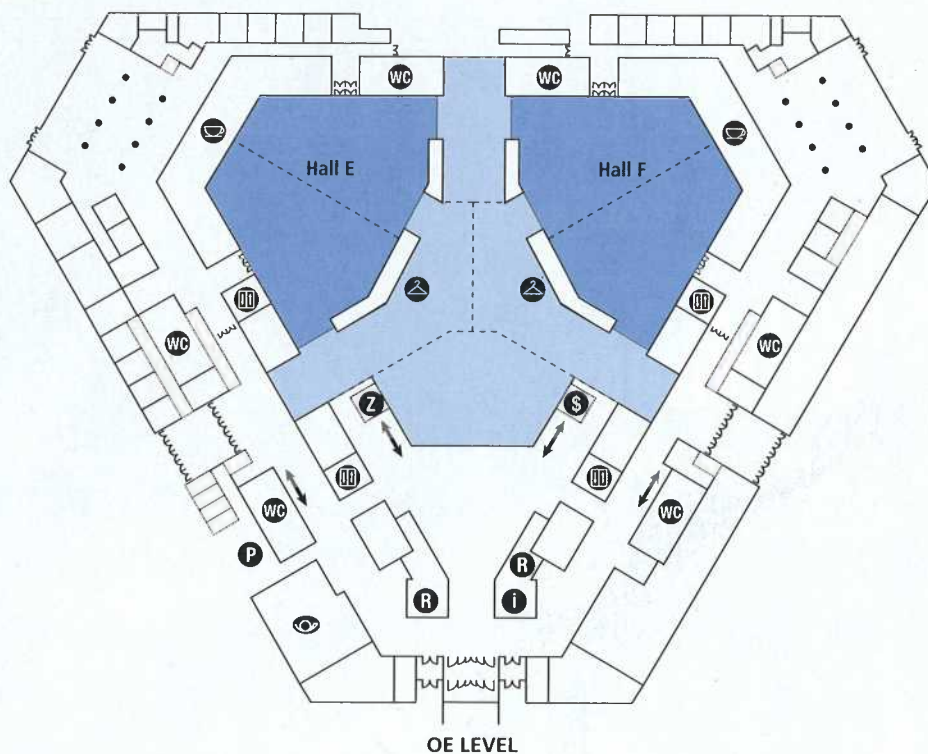
- FLIGHT ELECTRONICS
- FLIGHT MECHANICS
- THERMAL HARDWARE
- ELECTRICAL GROUND SUPPORT EQUIPMENT
- MECHANICAL GROUND SUPPORT EQUIPMENT

Austrian Aerospace GesmbH, Stachegasse 16, A-1120 VIENNA
TEL.: Int +43-1-801 99-0, FAX.: Int +43-1-801 99-6950



FLOOR PLAN OF THE ACV





- | | | | |
|---|---|---|---|
|  Escalator |  WC |  Cloakroom |  Information |
|  Goods lift |  Cocktail-Lounge |  Newspaper stall |  Post office |
|  Coffee shop |  Restaurant |  Registration |  Bank |



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EXECUTIVE SECRETARIAT OF UNISPACE III

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United Nations Office at Vienna

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