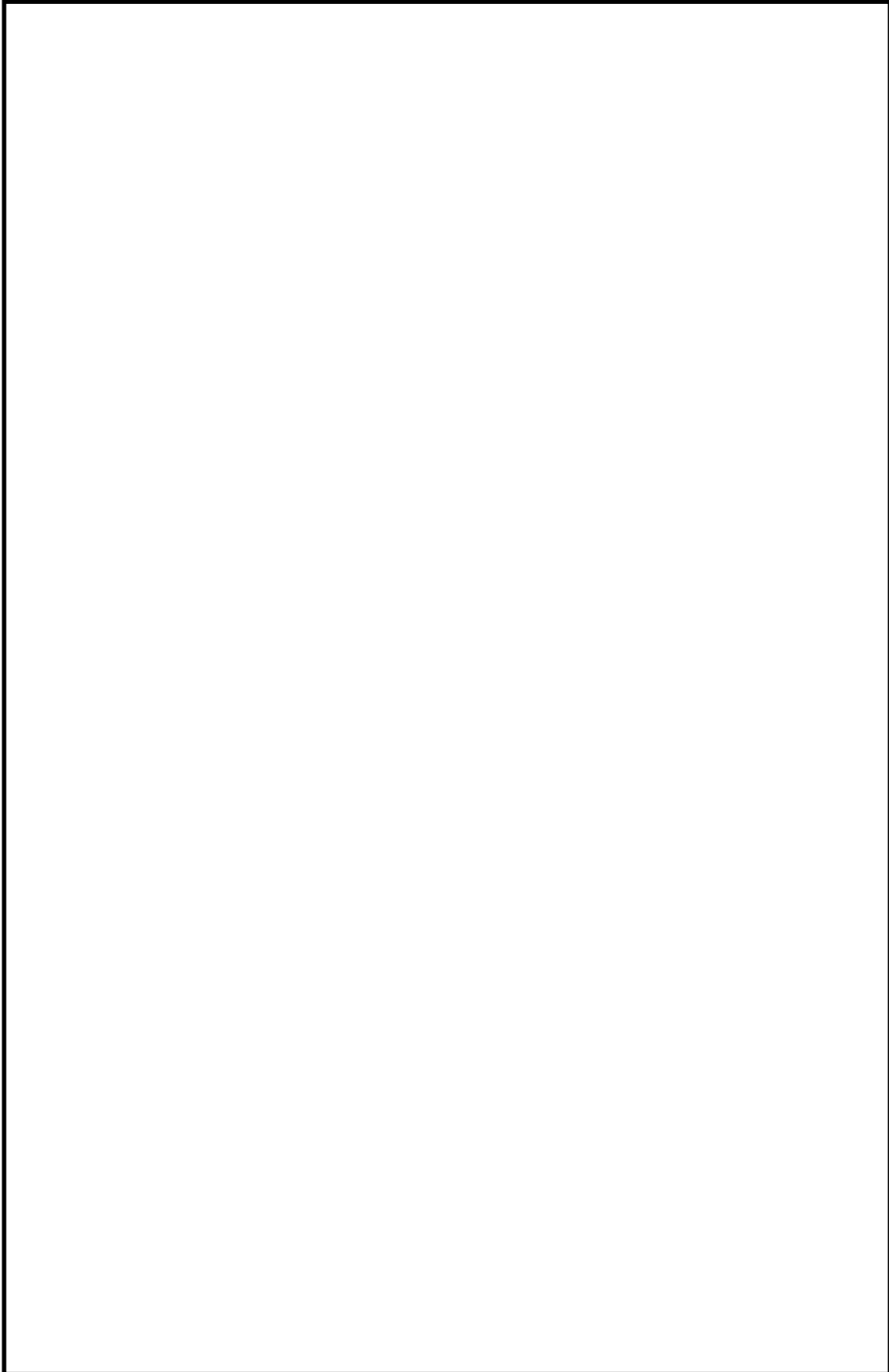


Association of Space Explorers • USA



**Annual Report
1996**

The poster on the cover commemorates the 12th Planetary Congress of the Association of Space Explorers (ASE). The Congress took place September 28-October 4, 1996 in Ottawa, Montreal, and Quebec City, Canada. Bearing the authentic signatures of forty-eight of the participating astronauts from twelve nations, it is part of a series of limited collector's edition posters that have been produced and signed at each ASE Congress since the Association was founded in 1985.

The poster has three headings, the main headings in English and French at the top, with the Russian displayed at the bottom. Around the periphery are printed translations of "Association of Space Explorers" in the native languages of all individuals who have flown in space. Clockwise, from upper left with English at the top, they include Romanian, Dutch, Japanese, Czech, Arabic, Polish, Spanish, Hungarian, Kazakh, Vietnamese, Italian, Bulgarian, Afghan, Hindi, Mongolian, German and French. The background is taken from NASA archive photo #83 HC 213 which has been used for each set of posters in the series.

The central image of the poster represents the Congress theme "Cooperation in Space-Progress for Humanity." The image features a view of the Aurora Australis in a photo taken from Space Shuttle mission STS 51-B. The image illustrates the conviction of ASE members that space holds great promise both as a new environment for human and other life as well as a source of intellectual illumination and inspiration for all humanity. At the 12th Congress, the participating ASE members discussed the contributions that space law, manned space exploration and space flight technologies make to the development of modern society and to the improvement of the human condition on our home planet.

Signed, numbered commemorative posters from past ASE Congresses are available to individuals and organizations who contribute to the Association. Inquiries are welcome at the ASE-USA office in Washington, DC at (202) 331-3885.

Association of Space Explorers • USA

Annual Report 1996

**Association of Space Explorers • USA
800 Connecticut Avenue, NW
Suite 1111
Washington, DC 20006**

ASE members assemble for a group photograph at the Museum of Civilization in Hull, Quebec during the 12th Planetary Congress in September, 1996.

(Front row, left to right): Gennadi Strekalov (Russia), Robert Thirsk (Canada), Vladimir Shatalov (Russia), Dumitru Prunariu (Romania), Roberta Bondar (Canada), Alexei Leonov (Russia), Vladimir Kovolyonok (Russia), Steve MacLean (Canada), Valeri Kubasov (Russia), Alexander Alexandrov (Bulgaria).

(Second row, left to right): Gordon Fullerton (USA), Owen Garriott (USA), Victor Afanasyev (Russia), Charles Walker (USA), John-David Bartoe (USA), Mirosław Hermaszewski (Poland), Pavel Popovich (Russia), Don Peterson (USA), Henry Hartsfield, Jr. (USA), Konstantin Feoktistov (Russia)

(Third row, left to right): Karol Bobko (USA), Don Williams (USA), Mario Runco, Jr. (USA), Richard Hieb (USA), Ron Parise (USA), Frederick Gregory (USA), Alexander Ivanchenkov (Russia), Alexander Serebrov (Russia), Alexander Balandin (Russia), Yuri Gidzenko (Russia), Alexander Volkov (Russia)

Not Pictured: Toyohiro Akiyama (Japan), Sergei Avdeev (Russia), Jean-Loup Chretien (France), Mohammed Faris (Syria), Bertalan Farkas (Hungary), Chris Hadfield (Canada), Jon McBride (USA), Ulf Merbold (Germany), Charles Precourt (USA), Robert Springer (USA), Vladimir Vasyutin (Russia), Franz Viehbock (Austria), Koichi Wakata (Japan), Ulrich Walter (Germany)

Executive Summary

The Association of Space Explorers (ASE) is an independent, nonprofit 501(c)(3) professional and educational organization of over 250 individuals from 26 nations who have flown citizens in space. Founded in 1985, ASE's mission is to provide a forum for professional dialogue among individuals who have flown in space; to promote space science and exploration for the benefit of all; to enhance education at all levels; to foster environmental awareness; and to encourage international cooperation in space.

Each year since 1985, ASE has convened an annual Planetary Congress to serve as a forum where members interact professionally and develop ASE programs. The week-long event generates communication on issues of common interest to the international space community, government agencies and the public. Members exchange information about their national space programs, make technical presentations on selected topics relevant to human space flight operations, discuss the Congress theme, and present the ASE Planetary Award to a person who has made an outstanding contribution related to that theme. Past recipients of the award include Jacques Yves Cousteau, Oleg Gazenko and Gerard O'Neill, Thomas Paine, Boris Raushenbakh, Yash Pal, Hendrick van de Hulst, Hans Dietrich Genscher, Isaac Asimov, Hermann Bondi, Yuri Gagarin, Stanislaw Lem and Nicolas Matte.

As the only professional association for astronauts, ASE supports the advancement of space exploration by providing opportunities for communication among space professionals at the international level. The Association has worked closely with other international professional space organizations to expand and invigorate international dialogue on such issues as space safety, rescue and human performance, often resulting in published technical proceedings and papers. ASE regularly sponsors international discussions among astronauts on space flight operations.

With respect to education, ASE seeks to stimulate and inspire continual and higher learning by all people. To do this, ASE shares its members' knowledge and experience with the general public, and in particular with the world's youth. ASE members believe that increased public understanding of ecological and technological issues will help us make wise choices for our environment and for the future direction of space exploration. ASE includes among its educational activities annual international member lecture tours, sponsorship of space-related film, drama and video productions, cooperation in the publication of space-related books and calendars and collaboration with the educational programs of other space-advocacy organizations such as the Challenger Center, National Space Society, United States Space Foundation, and Planetary Society.

ASE considers it important to provide its members with opportunities to communicate their unique perspective of Earth to help stimulate humanity's sense of responsibility for the future of our planet. ASE programs seek to expand the important role space plays in monitoring the impact of human activity on the Earth, since the environmental knowledge gained from space is useful for the resolution of many ecological problems. Among ASE's premier activities in the area of environmental education have been the publication of the international best-seller *The Home Planet* in hard and soft cover, participation in the United Nations Earth Day and Mission to Planet Earth ceremonies, lead partnership in the "Arbor Project" international forest conservation effort, and sponsorship of environmental films and videos.

ASE maintains a commitment to fostering international cooperation in space exploration. Since space exploration is a technology-intensive and financially expensive activity, ASE members understand that when many countries jointly invest their resources and ingenuity in common undertakings, all stand to benefit. Chief among ASE's activities in this area are professional exchanges and facilities visits among astronauts of different national space programs, sponsorship of international dialogue on space rescue, and a series of high level invitational discussions in Washington which have resulted in several papers on new opportunities for space cooperation in the changing global political environment.

ASE is committed to continuing its work to improve the quality and effectiveness of the human enterprise in space. Global developments suggest that international cooperation in space science and exploration will continue to expand in the 21st century. The Association of Space Explorers will continue to contribute both leadership and vision as humanity moves outward from our home planet and toward the stars.

To promote the exchange of space flight experiences and technical information concerning space operations, science, development, testing and training.

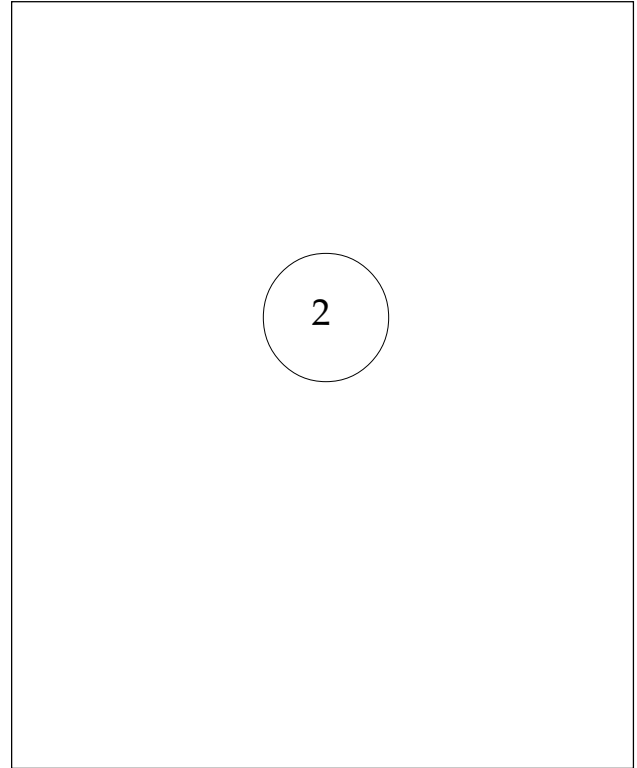
The Annual Planetary Congress is ASE's primary forum for professional exchange among astronauts and cosmonauts. ASE members meet to review and discuss developments in astronautics, to evaluate existing ASE programs and to plan future activities. The Congress affords a unique opportunity for communication between members of the international space community, government agencies and the public.

The XII Planetary Congress of the Association of Space Explorers was held in Ottawa, Montreal, and Quebec City, Canada from September 28-October 4, 1996. Forty Eight US, Russian, and international astronauts and cosmonauts, their spouses and guests enjoyed Canadian hospitality while keeping to a demanding schedule of working sessions and public appearances. The XII Congress was hosted by Steve MacLean and the Canadian Astronaut Program and was sponsored by, among others, the Canadian Space Agency (CSA), the Department of National Defense (DND), and the Canadian Aeronautics and Space Institute (CASI).

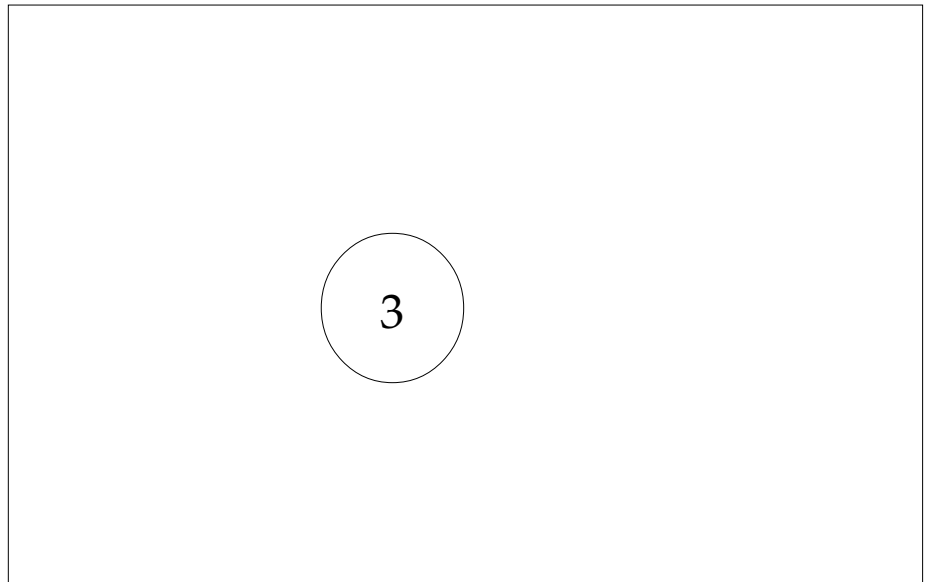
The Congress began on Saturday, September 28 with a Canada-wide educational blitz with 22 flyers visiting 11 cities from the Northwest Territories to Quebec. Although a planned satellite link-up between the cities and the Russian MIR space station failed to operate as planned, the appearances generated much excitement and enthusiasm among the many school-children and parents who participated. Those flyers and guests who did not participate in the blitz

were treated to an evening hockey game between the Ottawa Senators and Tampa Bay Lightning at the Corel Centre in Ottawa.

On Sunday September 29, congress participants assembled at the Museum of Civilization, perched on the north bank of the majestic Ottawa River in Hull,



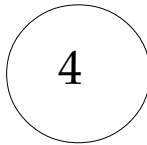
Charlie Walker affixes his signature to a commemorative mural during a welcoming reception on Parliament Hill in Ottawa.



The view towards Ottawa and Parliament Hill from the Museum of Civilization in Hull, Quebec.

Quebec. Following breakfast, the flyers toured the museum exhibits, signed autographs, and mingled with the public. After a buffet lunch and a briefing by Steve MacLean, the first working session of the congress took place in the Museum itself. Session chairs Roberta Bondar and Gennadi Strekalov lead the discussion on the benefits of space life sciences research with a brief video of Strekalov's TM-10 flight and a report by Bondar on the applicability of space-based studies to ailments such as spinal cord injuries and diseases of the nervous system. Also in this session, Charlie Walker presented a paper on the preparation of biological and medical research materials in orbit. Following the day's activities, congress participants attended a screening of the IMAX film *Blue Planet* before having dinner with corporate and community leaders in the museum's Great Hall of Civilization.

Monday began with a buffet breakfast sponsored by CASI at the Hotel Laurier, where Jon McBride and Vladimir Kovolyonok spoke on behalf of the assembled flyers, and Don Williams showed a brief, animated film of a possible future crewed mission to Mars. Following the breakfast, the delegations traveled to Rideau Hall, the official residence of the Governor-General of Canada, where the official Opening Ceremony of the Congress was held. The Governor-General welcomed the astronauts and cosmonauts to Canada and expressed his appreciation for the dedication and commitment of all the world's flyers in the pursuit of space exploration.



Returning to the Museum of Civilization, the flyers convened the second working session of the Congress; discussion centered around the need to consolidate ASE activities through the re-establishment and tasking of the international standing committees. Committee chairs were selected and tasked with organizing their respective committees and preparing mid-term and long-term plans, to be reported on at each mid-year meeting of the executive committee and at each congress. In the evening the delegations were treated to a reception on Parliament Hill followed by dinner at the private residences of Ottawa's business, political, and cultural leaders.

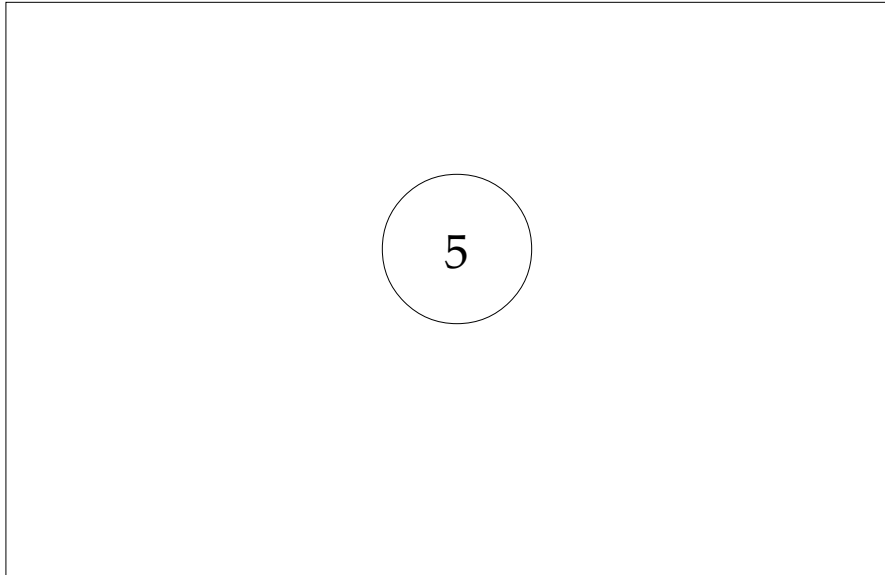
ASE-USA delegates gather with Romanian cosmonaut Dorin Prunariu at the John H. Chapman Space Center in Montreal. From left to right: John-David Bartoe, Gordon Fullerton, Dorin Prunariu, Fred Gregory, Don Williams, Ron Parise, Rick Hieb, Owen Garriott, Karol Bobko, Sam Durrance, Henry Hartsfield Jr, Mario Runco Jr, Robert Springer (back), Charlie Walker, Jon McBride, Don Peterson.

On Tuesday morning, congress participants traveled two hours by bus directly to the Canadian Space Agency near Montreal for the congress Theme Session. Romanian-born Canadian Nicolas Mateesco Matte, a pioneer scholar in the field of space law, delivered the keynote address. After accepting the Crystal Helmet Planetary Award, he reminded the assembled flyers and dignitaries of the importance and efficacy of codifying international standards of conduct and

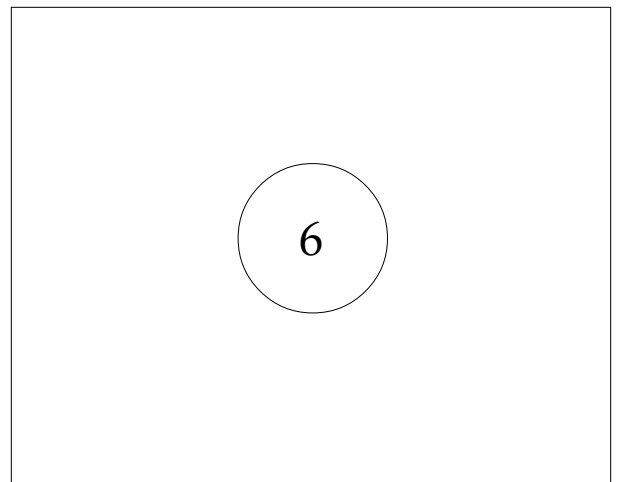
cooperation in outer space, and he expressed his admiration for those [flyers] who are “living proof that the impossible could become possible.” He also noted his belief that in an ever-changing world, the legal profession still has an important role in the development of national and global space activities, and he spoke of the need for an “inter-disciplinary and multi-cultural approach to [the] teaching and practice of space exploration.” Following the theme session, the delegates took advantage of some free time to visit historic downtown Montreal before departing for a dinner sponsored by CASI at the Bonaventure Hotel.

Wednesday was another full day for the delegates—returning to CSA in St. Hubert, the third working session of the congress was held featuring a presentation by Gordon Fullerton on the flight characteristics of thrust vector propulsion systems, a report by Mario Runco on his recent flight on STS-77, an update on Canadian activities in space by Chris Hadfield, Steve MacLean and Bob Thirsk, and a video was shown by Alexei Leonov on his Voskhod 2 spaceflight and EVA. Following a buffet lunch with the Canadian astronauts and the employees of CSA, the flyers attended the official christening of the Canadian Space Agency as the John H. Chapman Space Center.

Concluding the ceremony and visit to Montreal, the assembled astronauts and cosmonauts signed commemorative congress posters and assembled in the futuristic lobby of the CSA for a group photo. Directly from the space center, the delegations traveled 3 hours by bus to a reception on board Canada’s newest frigate, the HMCS Ottawa in Quebec City Harbor, where they were treated to a warm welcome and a tour by



Jon McBride (USA), Miroslaw Hermaszewski (Poland), Vladimir Kovolyonok (Russia) and Steve MacLean (Canada) receive Leonov Medallions for their efforts in organizing and hosting the 8th, 11th, 10th, and 12th Congresses, respectively.

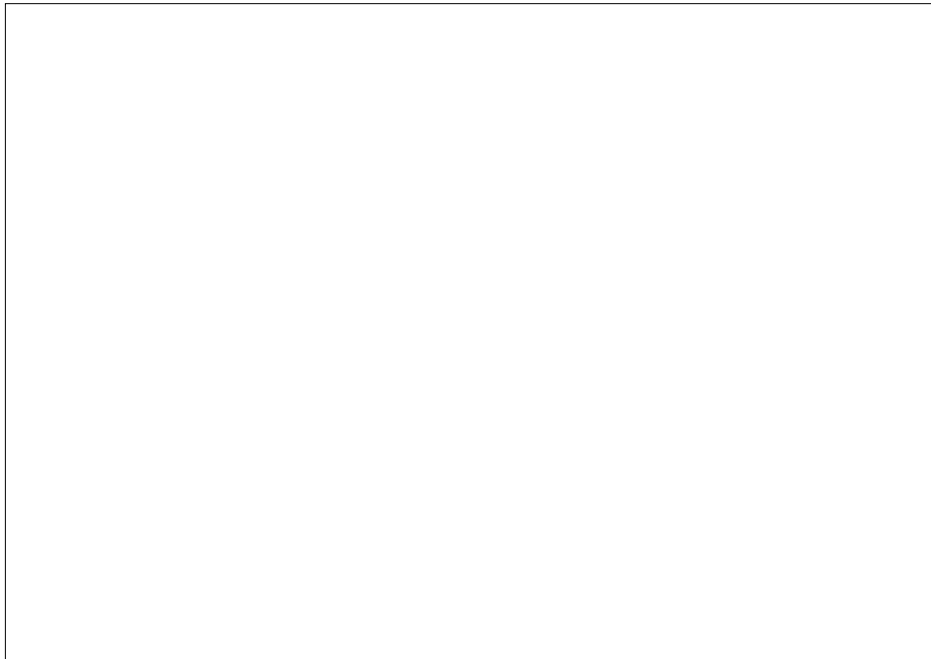


Alexei Leonov discusses his flight and EVA on Voskhod 2.

the officers and crew.

Thursday, the last full day of the congress, was devoted almost exclusively to working sessions. Held at Canadian Forces Base Valcartier in Quebec City, the flyers listened to several interesting presentations. Konstantin Feoktistov delivered a highly detailed and technical presentation on the aerospike engine design; Frank Culbertson discussed Phase I and Phase II Shuttle/MIR operations and plans; Koichi Wakata talked about the cultural and language barriers to international crew training and operations and Charlie Precourt discoursed on the implications international cooperation will have on space flight (crew) safety and made some specific recommendations for establishing an international body, staffed by current and former astronauts, with safety oversight responsibilities.

Following the working session, the Executive Session of the congress was held. The ASE international standing committee on Crew Safety & Technical Support was tasked with acting on Charlie Precourt's proposal, the Congress General Statement was approved and released and Fred Gregory and Alexei Leonov were elected to the Co-Presidency of the international association. Also during this session, Miroslaw Hermaszewski (Poland), Ulf Merbold (Germany), and Charlie Walker (USA) were elected to the international Executive Committee.



Members of the ASE Executive Committee present Crystal Helmet winner Nicolas Matte with a signed 12th Congress commemorative poster. Left to right: Alexei Leonov (Russia), Dorin Prunariu (Romania), Mrs. Nicolas Matte, Nicolas Matte, Jon McBride (USA), Vladimir Kovolyonok (Russia), Steve MacLean (Canada).

To promote the exploration of space to enrich human life, bring nations together, advance science and technology, and stimulate intellectual curiosity and the expansion of knowledge.

In an era of tightening budgets and shrinking resources, the implementation of complex and costly space ventures will depend on cooperation and the coordination of the talents of many nations. ASE's role as a forum for the exchange of questions and ideas across borders has contributed to the genuine internationalization of space exploration.

THE X PRIZE

In May, 1996 ASE members participated in activities surrounding the debut of the X Prize in St. Louis, Missouri. The three-day event included astronaut visits to local St. Louis area elementary schools, a press conference beneath the famous St. Louis arch, model rocket contests and autograph sessions at the St. Louis Science Center. The debut culminated in a gala black-tie dinner in the Explorers Hall at the Science Center. Among noted speakers at the dinner were former astronaut and ASE member Byron Lichtenberg ; X Prize Founder and Chairman Peter Diamandis; and Eric Linbergh, grandson of pioneer aviator Charles Lindbergh. The X Prize is an award similar to aviation prizes of the early 20th Century, intended to stimulate the private development of low-cost, reusable vehicles which will provide commercial access to space. The first X Prize will be a \$10 million cash prize to the first team who safely launches and lands a vehicle capable of transporting three people on two consecutive suborbital flights to an altitude of 100 kilometers.

ASE DISPLAY AT UNITED NATIONS SPACE AFFAIRS OFFICE

ASE maintains a permanent exhibit on space technology at the UN Office for Outer Space Affairs in Vienna, Austria. The display incorporates a wide variety of space-related material from an array of government agencies, non-government organizations and private companies. It is designed to raise public awareness of the tangible benefits of space research and exploration and to draw attention to the applications of space technology to the improvement of social and economic conditions around the world. The ASE exhibit brings together a selection of photographs, congress posters, texts, books and other items to describe ASE's eleven-year history facilitating international communication on issues surrounding the future of human space exploration as well as its efforts in support of space education. The display emphasizes ASE's commitment to the human aspect of the space flight en-

To share knowledge gained from our experience emphasizing the significance and benefits of space science and exploration. To promote scholastic excellence by supporting educators and motivating students.

In 1996, ASE members appeared before educational and professional organizations and participated in various commemorative events around the country. At every opportunity ASE members strove to improve public understanding of our endeavor in space and to inspire young people to continue the challenge begun thirty years ago.

VIDEO DOCUMENTARY PROJECT

In addition to its planned Earth Education Exhibit, ASE members are participating in a series of video interviews designed to stimulate interest and educate the public as to the drama and heroism of human spaceflight. Astronauts from around the world recount tales, with accompanying video footage, of particularly interesting events that occurred during their space missions. The series will be made available in many different languages and will be distributed worldwide. The project is being coordinated in cooperation with USA Networks/Sci-Fi Channel.

To promote understanding of our home planet and the limits of its natural resources, and encourage the use of space platforms in characterizing and monitoring Earth's resources.

The view of Earth from space imbues ASE members with a sense of responsibility for the well-being of our home planet. ASE has been at the forefront among organizations advocating the use of space-based observation platforms to monitor humanity's impact on the global environment. ASE supports the timely worldwide dissemination of data gathered by these space resources. A prime component of ASE's on-going partnership with the United Nations is environmental education.

EARTH EDUCATION EXHIBIT

While still in the planning stage, ASE envisions a multimedia exhibit which would incorporate images of the Earth as seen from space and from the ground. These images, with accompanying explanatory text, would depict diverse ecosystems that suffer significant, and sometimes catastrophic, change due to pollution and abuse of natural resources. When completed, the exhibit would be available to schools, science museums and environmental preservation organizations around the world.

To encourage international human space flight and other cooperative space endeavors, promote technical exchanges, advocate operational compatibility, and contribute to related programs in other professional organizations.

ASE is the world's only organization to host regular international discussions among astronauts and cosmonauts on space flight operations. Further, ASE frequently co-sponsors meetings of space professionals and policy makers at the national and international levels. Building informed professional relationships and educating the public are the bases of ASE's efforts to advance space exploration.

INTERNATIONAL SPACE POLICY DISCUSSIONS

ASE continues its partnership with the Space Policy Institute of The George Washington University in Washington, DC and co-sponsors invitational discussions on space issues of emerging international concern. Each evening event features a guest speaker who delivers prepared remarks. The remarks are followed by not-for-attribution discussions among the invited participants. These discussions serve as an excellent point of contact between ASE and other members of the US and international space community. ASE and the GW Space Policy Institute will continue hosting these discussions in 1997 as international cooperation in space expands.

UN COMMITTEE ON THE PEACEFUL USES OF OUTER SPACE

In 1994, ASE commenced its official involvement with the United Nations Committee on the Peaceful Uses of Outer Space (COPUOS). Since 1959, the Committee has been the UN forum in which member states have come together to discuss and formulate international space policy. COPUOS and its two subcommittees for legal and scientific and technical issues meet annually to review developments of international interest and to facilitate the exchange of information among the assembled representatives. ASE is one of several non-governmental organizations and intergovernmental agencies accorded observer status with the Committee. Observer status affords ASE access to discussions on international space at the highest level and allows the Committee to obtain the creative input of the world's only association of space flyers. ASE involvement in COPUOS ensures that the human aspect of space flight will not be neglected.

ASE member Dorin Prunariu (Romania) presents an ASE resolution in support of the X Prize to the United Nations Committee on Peaceful Uses of Outer Space.

Shown below are the Executive Committee, Boards of Directors, Standing Committees and staff of ASE at the end of 1996.

ASE Executive Committee

Richard Covey
 Frederick Gregory
 Mirosław Hermaszewski
 Vladimir Kovolyonok
 Alexei Leonov
 Ulf Merbold
 Dorin Prunariu
 Viktor Savinykh
 Charlie Walker

**ASE-USA
 Board of Directors**

Richard Covey, President
 Frederick Gregory,
 Vice-President
 Joseph Allen, Treasurer
 John Blaha
 Owen Garriott
 Rick Hieb
 Jack Lousma
 Steve Nagel
 Tom Stafford

**ASE-Russia
 Board of Directors**

Alexei Leonov,
 President
 Gennadi Strekalov,
 Vice-President
 Oleg Atkov
 Yuri Glazkov
 Vladimir Kovolyonok
 Pavel Popovich
 Vladimir Solovyov

ASE-USA Staff

Andy Turnage, Executive Director

ASE-Russia Staff

Victor Blagov, Director

ASE International Standing Committees

**POLICY, LIAISON AND
 PUBLIC RELATIONS**

Dorin Prunariu, Chair
 Bob Cenker
 Ed Gibson
 Yuri Glazkov
 Pyotr Klimuk*
 Vladimir Kovolyonok
 Alexei Leonov
 Byron Lichtenberg
 Vladimir Remek*
 Helen Sharman
 Valentina Tereshkova
 Taylor Wang

**CREW SAFETY AND
 TECHNICAL SUPPORT**

Fred Gregory, Chair
 Roy Bridges Jr.
 Henry Hartsfield Jr.
 Bruce McCandless II
 Ernst Messerschmid
 Steve Nagel
 Don Peterson
 Alexander Poleshchuk

* Subcommittee on History and Archives

ECOLOGY

Pavel Popovich, Chair
 Toyohiro Akiyama
 Alexander Alexandrov (Bul.)
 Mary Cleave
 Sam Durrance
 Bertalan Farkas
 Dirk Frimout
 Yuri Glazkov
 Alexander Ivanchenkov
 Bruce McCandless II
 Ernst Messerschmid

**DEVELOPMENT AND
 FINANCIAL SUPPORT**

Jon McBride, Chair
 Rick Hieb
 Bill Nelson
 Vladimir Vasyutin
 Don Williams

Vladimir Remek
 Mario Runco
 Viktor Savinykh
 Vitaly Sevastyanov

12th ASE Planetary Congress

September 28-October 4, 1997

Ottawa, Montreal, Quebec City, Canada

General Statement

Forty-eight astronauts and cosmonauts from twelve countries gathered in Canada from September 28-October 4, 1996 for the 12th Annual Planetary Congress of the Association of Space Explorers. Hosted by the Canadian Space Agency in St. Hubert, technical sessions were held in Ottawa, Montreal, and Quebec City.

Technical sessions included presentations on Life Sciences and biomedical research in space, advanced propulsion technologies, and current international cooperative space operations. The theme of the 12th Congress was "Cooperation in Space: Progress for Humanity." The theme and location of this year's congress was chosen in recognition and support of the continued spirit of cooperation that has sent over 350 citizens of 26 countries into Earth orbit on international missions of peace and exploration.

Considering that the many international cooperative efforts in space, beginning with the Apollo-Soyuz Test Project in 1975 and continuing with the construction of the International Space Station with its 15 partners, have contributed significantly to the advancement of the human condition here on planet Earth, and further,

Recognizing that many of these achievements were made possible by the Outer Space Treaty of 1967; as a result we honor those who have contributed to the promulgation of this historic treaty. Therefore, we

Resolve that Nicolas Mateesco Matte be awarded the Crystal Helmet Planetary Award for his pioneering work in institutionalizing international standards of conduct and cooperation in outer space.

We astronauts and cosmonauts of the world call on all space-faring nations and peoples to participate in the development of international cooperation in space science, technology and operations for the benefit of all humanity and our home, the Earth, as we move forward together into the new millennium.

Adopted this 4th Day of October, 1996

The following individuals had joined the Association of Space Explorers and performed or begun their respective space missions as of December 31, 1996

Loren Acton, USA STS 51-F	Daniel Barry, USA STS 72	John Casper, USA STS 36, STS 54, STS 62, STS 77
James Adamson, USA STS 28, STS 43	* John-David Bartoe, USA STS 51-F	Robert Cenker, USA STS 61-C
Viktor Afanasyev, Russia Soyuz TM-11	Patrick Baudry, France STS 51-G	Eugene Cernan, USA Gemini 9, Apollo 10, Apollo 17
* Toyohiro Akiyama, Japan Soyuz TM-11	Georgi Beregovoi, Russia † Soyuz 3	Leroy Chiao, USA STS 65, STS 72
Vladimir Aksyonov, Russia Soyuz 22, Soyuz T-2	Anatoly Berezovoi, Russia Soyuz T-5	* Jean-Loup Chrétien, France Soyuz T-6, Soyuz TM-7
Sultan Al-Saud, Saudi Arabia STS 51-G	John Blaha, USA STS 29, STS 33, STS 43, STS 58 STS 79, MIR 22	Mary Cleave, USA STS 61-B, STS 30
Buzz Aldrin, USA Gemini 12, Apollo 11	* Karol Bobko, USA STS 6, STS 51-D, STS 51-J	Jean-François Clervoy, France STS 66
Alexander Alexandrov, Russia Soyuz T-9, Soyuz TM-3	* Roberta Bondar, Canada STS 42	Michael Clifford, USA STS 53, STS 59, STS 76
* Alexander Alexandrov, Bulgaria Soyuz TM-5	Vance Brand, USA ASTP, STS 5, STS 41-B, STS 35	Michael Coats, USA STS 41-D, STS 29, STS 39
Joseph Allen, USA STS 5, STS 51-A	Daniel Brandenstein, USA STS 8, STS 51-G, STS 32, STS 49	Ken Cockrell, USA STS 56, STS 69, STS 80
Jerome Apt, USA STS 37, STS 47, STS 59, STS 79	Roy Bridges Jr., USA STS 51-F	Michael Collins, USA Gemini 10, Apollo 11
Anatoly Artsebarsky, Russia Soyuz TM-12	Curtis Brown Jr., USA STS 47, STS 66, STS 77	Charles Conrad Jr., USA Gemini 5, Gemini 11, Apollo 12, Skylab 2
Yuri Artyukhin, Russia Soyuz 14	Mark Brown, USA STS 28, STS 48	Richard Covey, USA STS 51-I, STS 26, STS 38, STS 61
Oleg Atkov, Russia Soyuz T-10	Valeri Bykovsky, Russia Vostok 5, Soyuz 22, Soyuz 31	John Creighton, USA STS 51-G, STS 36, STS 48
Toktar Aubakirov, Kazakhstan Soyuz TM-13	Robert Cabana, USA STS 41, STS 53, STS 65	Robert Crippen, USA STS 1, STS 7, STS 41C, STS 41G
* Sergei Avdeev, Russia Soyuz TM-15	Ken Cameron, USA STS 37, STS 56, STS 65	Walter Cunningham, USA Apollo 7
James Bagian, USA STS 29, STS 40	Scott Carpenter, USA Mercury 7	Vladimir Dezhurov, Russia TM-21
Michael Baker, USA STS 43, STS 52, STS 68	Gerald Carr, USA Skylab 4	Charles Duke Jr., USA Apollo 16
* Alexander Balandin, Russia Soyuz TM-9	Manley Carter, USA † STS 33	Bonnie Dunbar, USA STS 61-A, STS 32, STS 50, STS 71

* Samuel Durrance, USA STS 35	* Yuri Gidzenko, Russia TM-22	Georgi Ivanov, Bulgaria Soyuz 33
Lev Dyomin, Russia Soyuz 15	Yuri Glazkov, Russia Soyuz 24	Sigmund Jähn, Germany Soyuz 31
Vladimir Dzhanibekov, Russia Soyuz 27, Soyuz 39, Soyuz T-6, Soyuz T-12, Soyuz T-13	Linda Godwin, USA STS 37, STS 59, STS 76	Tamara Jernigan, USA STS 40, STS 52, STS 67, STS 80
Donn Eisele, USA † Apollo 7	Viktor Gorbatko, Russia Soyuz 7, Soyuz 24, Soyuz 37	Brent Jett, USA STS 72
Ronald Evans, USA † Apollo 17	Georgi Grechko, Russia Soyuz 17, Soyuz 26, Soyuz T-14	Thomas Jones, USA STS 59, STS 68
John Fabian, USA STS 7, STS 51-G	* Frederick Gregory, USA STS 51-B, STS 33, STS 44	Alexander Kaleri, Russia Soyuz TM-14, TM-26, MIR 23
* Mohammed Faris, Syria Soyuz TM-3	Alexei Gubarov, Russia Soyuz 17, Soyuz 28	Yevgeni Khrunov, Russia Soyuz 5
* Bertalan Farkas, Hungary Soyuz 36	Jugderdemidyn Gurragchaa, Mongolia Soyuz 39	Leonid Kizim, Russia Soyuz T-3, Soyuz T-10, Soyuz T-15
* Konstantin Feoktistov, Russia Voskhod 1	* Chris Hadfield, Canada STS 74	Pyotr Klimuk, Russia Soyuz 13, Soyuz 18, Soyuz 30
Martin Fettman, USA STS 58	Jean-Pierre Haigneré, France Soyuz TM-17	* Vladimir Kovalyonok, Russia Soyuz 25, Soyuz 29, Soyuz T-4
Anatoly Filipchenko, Russia Soyuz 7, Soyuz 16	Terry Hart, USA STS 41-C	Sergei Krikalyov, Russia Soyuz TM-7, Soyuz TM-12, STS 60
Klaus Dietrich Flade, Germany Soyuz TM-14	* Henry Hartsfield Jr., USA STS 4, STS 41-D, STS 61-A	* Valeri Kubasov, Russia Soyuz 6, ASTP, Soyuz 36
Dirk Frimout, Belgium STS 45	Frederick Hauck, USA STS 7, STS 51-A, STS 26	Alexander Laveikin, Russia Soyuz TM-2
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Robert Gibson, USA STS 41-B, STS 61-C, STS 27, STS 47 STS 71	* Alexander Ivanchenkov, Russia Soyuz 29, Soyuz T-6	Jack Lousma, USA Skylab 3, STS 3

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* Vladimir Lyakhov, Russia Soyuz 32, Soyuz T-9, Soyuz TM-6	Mike Mullane, USA STS 41-D, STS 27, STS 36	Valeri Polyakov, Russia Soyuz TM-6
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Oleg Makarov, Russia Soyuz 12, Soyuz 27, Soyuz T-3	Bill Nelson, USA STS 61-C	* Charles Precourt, USA STS 55, STS 71
Yuri Malenchenko, Russia Soyuz TM-19	George Nelson, USA STS 41-C, STS 61-C, STS 26	* Dumitru Prunariu, Romania Soyuz 40
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Gennady Manakov, Russia Soyuz TM-10, Soyuz TM-16	James Newman, USA STS 51, STS 69	Kenneth Reightler Jr., USA STS 48, STS 60
Musa Manarov, Russia Soyuz TM-4, Soyuz TM-11	Claude Nicollier, Switzerland STS 46, STS 61	Vladimir Remek, Czech Republic Soyuz 28
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* Ulf Merbold, Germany STS 9, STS 42, Soyuz TM-20	Scott Parazynski, USA STS 66	* Mario Runco Jr., USA STS 44, STS 54, STS 77
Ernst Messerschmid, Germany STS 61-A	* Ronald Parise, USA STS 35, STS 67	Valeri Ryumin, Russia Soyuz 25, Soyuz 32, Soyuz 35
Edgar Mitchell, USA Apollo 14	Gary Payton, USA STS 51-C	Albert Sacco Jr., USA STS 73
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Svetlana Savitskaya, Russia Soyuz T-7, Soyuz T-12	* Gennadi Strekalov, Russia Soyuz T-3, Soyuz T-8, Soyuz TM-10	Igor Volk, Russia Soyuz T-12
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Russell Schweickart, USA Apollo 9	Valentina Tereshkova, Russia Vostok 6	Janice Voss, USA STS 57, STS 63
Ronald Sega, USA STS 60, STS 76	* Robert Thirsk, Canada STS 78	* Koichi Wakata, Japan STS 72
* Alexander Serebrov, Russia Soyuz T-7, Soyuz T-8, Soyuz TM-8, Soyuz TM-17	Donald Thomas, USA STS 65, STS 70	* Charles Walker, USA STS 41-D, STS 51-D, STS 61-B
Vitaly Sevastyanov, Russia Soyuz 9, Soyuz 18	Kathryn Thornton, USA STS 33, STS 49, STS 61, STS 73	David Walker, USA STS 51-A, STS 30, STS 53, STS 69
Rakesh Sharma, India Soyuz T-11	Pierre Thuot, USA STS 36, STS 49, STS 62	* Ulrich Walter, Germany STS 55
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† Deceased

* Attended XII Congress

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The following had become Life Members of the Association of Space Explorers-USA and had performed or begun their respective space missions as of December 31, 1996.

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