

THE SPACE EXPLORER

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BERLIN CONGRESS CALLS FOR INTERNATIONAL HUMAN MISSION TO MARS

The Association of Space Explorers has put itself on record in support of broad international cooperation in the development and execution of a human mission to the planet Mars. In a general statement released at the Congress (page 5), the partici-

pants stated that "ASE endorses a program that leads to a permanent human presence on the Moon. However, the ultimate destination is Mars... We believe that the necessary political, economic and technical support can be obtained only with broadly based,

and fully integrated, international development of the human mission to Mars and its precursor robotic missions".

The language of the statement reflected the members' belief that for the purpose of accomplishing

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ASE GIVES FINAL GO-AHEAD FOR WASHINGTON CONGRESS IN '92

The ASE Executive Committee has lent its support to plans developed by ASE-USA's 1992 Congress Organizing Committee for hosting the the 8th ASE Congress in Washington DC next August 24 - 29. The DC-based organizing committee, working closely with two hired consultants, has drawn up a format for the 1992 Congress which both follows and expands upon the

procedural and programmatic traditions established at past ASE Congresses.

"To Mars Together", has been selected as the '92 Congress theme, and the membership will present the Association's crystal helmet award to an individual who has made an outstanding contribution in a discipline related to that topic. The first day of the Congress will include a discussion of the theme

This edition of The SpacExplorer is dedicated to the memory of ASE founding member Jim Irwin. Jim, who flew on Apollo 15, shared the early vision of ASE's founders that an international organization of the world's astronauts had a unique potential to impact thinking on humanity's future in space and on Earth. In addition to participating in several Congresses, Jim personally gave a copy of ASE's The Home Planet to Soviet President Mikhail Gorbachev on the tarmac at JFK airport in December 1988. ASE members will remember Jim for his gentle and respectful way with people and his tireless devotion to the spiritual strengthening of the human family.

PRESIDENT'S REPORT by John Fabian

Following a highly successful 7th ASE Congress in Berlin, it is time to turn our collective attention to the 92 Congress in Washington. Past meetings in France, Hungary, Mexico, Bulgaria, Saudi Arabia, Holland, and Germany have set the stage for our efforts. Our past hosts have each organized outstanding events and it is now our turn to repay their hospitality.

The annual Congress is the venue in which ASE conducts its international programs to enhance education, strengthen environmental stewardship, en-

courage international cooperation, and promote space exploration. Next year, we will have a special and critical opportunity to influence the future of space exploration. Our theme "To Mars Together" and the technical program we will present can have a highly positive impact upon the future. ASE has already begun its efforts by co-sponsoring, with George Washington University, a series of dinner meetings in Washington. These events have drawn key government and industry participants to discuss future directions of the space pro-

gram. During the 92 Congress, we will co-sponsor with the IAF and COSPAR a symposium at the World Space Congress.

The current economic conditions, national budgetary constraints, and ill advised political agendas are putting extraordinary pressures upon the manned space program. We obviously need to reinvigorate public interest and congressional support. ASE's membership offers experience, understanding, and credibility that can provide a meaningful and positive input. The 92 Congress will create a visible and timely opportunity to make our dreams for the future come true.

Your involvement in planning, organizing and financing the 92 Congress is essential. If you have ideas, we need to know about them. If you can help, we welcome it. If you know others who can assist, please tell us. I hope that you will all get on-board. The countdown has already begun!

□

ASE-USA SOLICITS BOARD CANDIDACY STATEMENTS TO INFORM NOMINATION PROCESS

In a move designed to provide ASE members who may seek a position on the ASE-USA Board of Directors with an opportunity to communicate this interest to their fellow members, the Board's Administration Committee has approved the distribution to all eligible members of an invitation to submit a one-page statement of candidacy explaining why a member wishes to be elected to the Board and what he or she would bring to that body. Once compiled, these statements will be included in a nomination packet wherein each member is

asked to select a fixed number of choices from a full list of eligible members. The top ranking nominees from this procedure will then be included on the final ballot. The new procedure has the advantage of allowing members to make relatively informed selections for the three Board positions up for election each year. It is the Committee's hope that this refinement will also result in an increased correlation between those interested in joining the Board and those actually elected to serve. □

The SPACEXPLORER

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'92 CONGRESS COMMITTEE DEVELOPS FUNDRAISING STRATEGY

MEMBER INVOLVEMENT CONSIDERED CRUCIAL

As a fundamental component of its planning effort, ASE-USA's 1992 Congress Organizing Committee has moved forward with a comprehensive fundraising strategy to ensure that the necessary resources are secured to produce the highly visible, productive and successful Congress that the Committee envisions. The success of the Congress hinges on the Association's ability to raise the \$300,000 to \$500,000 needed for the program.

To develop, coordinate and implement the strategy, ASE-USA has hired Washington DC-based fundraising consultant Amy Conroy who is working with the Committee and several other ASE members to solicit support for the Congress. The initial goal was to raise one-fourth of the Congress budget by the end of 1991—approximately \$125,000. To date, ASE has received commitments from three corporations and two individuals, totalling \$12,000. Despite several months of hard work, ASE remains a long way from both its 1991 goal as well as the overall Congress budget.

So far, ASE's fundraising strategy for the Congress has focused primarily on solicitations of support from corporations, organizations, individuals and foundations. With the help of ASE members, Conroy researched and compiled a list of over 500 prospective contributors, to which a general solicitation package was mailed in September. Telephone

calls followed in October and November.

To encourage corporations, organizations and individuals to support the Congress, a Host Committee has been formed whereby interested contributors may join with donations ranging from \$1,000 to \$25,000. For their support, Host Committee members receive appropriate recognition and are invited to participate in Congress events. Contributors may join the Host Committee with direct financial as well as in-kind contributions, both of which are tax-deductible.

In support of the fundraising effort, several ASE members have made personal commitments of time and money. These individuals have been approach-

ing corporations that benefit from space exploration, talking to organizations whose Board of Directors they sit on, and meeting with companies that realize the "promotional" value of supporting ASE. A broader effort, however, is considered vital for the effort to succeed. ASE needs the active, personal participation of everyone, especially its members and friends, to meet its goals.

If you are interested in joining the Host Committee or becoming involved in the 1992 Congress fundraising program, please call Amy Conroy at ASE's Washington office (202/265-8132). The Organizing Committee is working hard to produce a Congress ASE can be proud of, but it can only be achieved with everyone's support. □

PBS 'SPACE AGE' DOCUMENTARY TO FEATURE ASE

Producers of a PBS International Space Year documentary series called "Space Age" have chosen the Association of Space Explorers to be the main focus of one of the series's episodes, titled "The View of Earth". The eight part series, filmed in cooperation with the National Academy of Sciences, will address the ways in which space exploration and technology have transformed the world. Joe Seamans, producer of "The View of Earth" episode, approached the Association early this year with the

idea of using the documentary to tell the story of how the shared experience of seeing the Earth from space led to the formation of ASE, and how ASE and its goals represent a "good example of how the new view of Earth has led to a change in attitudes about the planet we live on". Seamans brought a film crew to the recent ASE Congress in Berlin and shot interviews with several members as well as some of the proceedings at the event. The program is scheduled to be broadcast in October of next year. □

CORPORATE PARTNERSHIPS HELP INVIGORATE ASE CASH FLOW

ASE-USA has recently signed agreements with two global computer companies whereby ASE members participate in corporate projects that coincide with ASE goals and in return the companies make financial contributions back to the Association. The companies, Groupe Bull of France and the NEC Company of Japan,

have undertaken projects that serve not only to enhance their respective public images but also to educate the public about goals with which ASE has publicly identified itself in the past.

The NEC Company approached ASE through a series of intermediaries, including ASE member Rusty Schweickart, seek-

ing non-exclusive, one-time use rights to *The Home Planet* book and *Our Planet Earth* film excerpts, as well as recorded ASE member interviews, for inclusion in NEC product demonstrations and presentations at the Telecom '91 exposition in Geneva last October. ASE secured permission from *The Home Planet* publishers Addison Wesley and *Our Planet Earth* producer Mickey Lemle to pass on the rights to these materials, which were then recorded into optical databases and projected onto HDTV screen matrices before audiences at NEC's Telecom pavillion. The agreement also provided for ASE members Gennady Strekalov of Russia, Dumitru Prunariu of Romania and Rakesh Sharma of India to participate in audience discussions at the event. The discussions, moderated by Schweickart on behalf of NEC, focused on some of the new perspectives of the Earth as a whole that many astronauts, and in particular the ASE members on hand, had brought back from their missions in space.

For its part, the Bull Company has invited ASE to become a primary international partner in its Arbor Project, a global education and action program that has the goal of preserving and protecting the world's forests. ASE's primary responsibility will be to send a delegate to twice-yearly meetings of the Bull Foundation to provide direction and guidance to the Project, as well as to pro-

ASE MOVING TOWARDS PARTICIPATION IN BRAZIL EARTH SUMMIT

The ASE Executive Committee and Secretary-General of the United Nations Conference on Environment and Development (UNCED) Maurice Strong have reached agreement in principle on ASE member participation at the Conference, otherwise known as Earth Summit, which is to be held June 1 - 12, 1992 in Rio de Janeiro.

ASE participation in the event, the goal of which Strong says is to "lay the foundation for a global partnership between developing and more industrialized countries, based on mutual need and common interests, to ensure the future of the planet", was initially discussed by ASE members and United Nations environmental leaders at the UN's Earth Day celebration in April, 1990. In response to a subsequent follow-up letter from the ASE-USA of-

fice, Strong welcomed and encouraged ASE participation, and the Executive Committee affirmed at the recent ASE Congress in Berlin its interest in proceeding.

ASE has begun exploring ways to fund its participation in the Conference and soon will begin working with the Conference organizers to develop appropriate options for ASE member involvement in the proceedings. Participation in the event squares well with ASE's mission to help stimulate humanity's sense of responsibility to the future of the environment, as ASE members will be able to offer the Conference their unique perspectives of an environmentally borderless world as well as suggest ways in which space resources might be used to monitor and help manage the global ecological balance. □

GENERAL STATEMENT FROM THE 7TH PLANETARY CONGRESS

The following statement was adopted at the 7th ASE Planetary Congress in Berlin on October 4, 1991.

The Seventh Congress of the Association of Space Explorers (ASE) was held in Berlin from 30 September to 5 October, 1991. The Congress theme, "Space Has No Boundaries," expressed our vision of the future - a future of potentially limitless promise, uninhibited expansion of knowledge, boundless excitement of our youth, and ever increasing international cooperation.

In conjunction with our theme, ASE invited speakers from the United States, the Soviet Union, and other European countries to discuss the greatest of future space activities - human journeys to other parts of the solar system - which, as part of a balanced effort with robotic missions, promise to unite the Earth's people in peaceful and productive enterprises that will benefit all of humankind.

Human exploration of the solar system is a challenging and inspiring initiative that can promote global understanding, peaceful cooperation, scientific progress, technology development, and educational excellence. This massive effort will clearly include opportunities for participation by many countries. It will provide a focus for space science and technology programs in all of the spacefaring nations and enhance new initiatives in emerging nations.

In addition, human space exploration will do much to improve life on Earth. We Space Explorers have learned from our past flights that the Earth is a fragile and endangered planet. One of our highest priorities is to educate the public on the dangers to, and to take actions that protect, the home planet for future generations. Space technology enables us to monitor the conditions on Earth. It can also contribute directly to limit environmental damage. Human exploration technologies have created a new awareness and knowledge of the global nature of environmental issues and contributed to new methods of power generation, environmental control, recycling, and other applications that lead to a cleaner, healthier planet. In addition to ecological benefits, space technologies have contributed significantly to new pharmaceutical, electronics, communications and energy advances that have improved the quality of life on Earth during the past thirty years.

The Earth will always be the home planet, but it will not forever remain our only outpost in the universe. Humankind has already taken the inevitable step of leaving this planet to explore other worlds. It has been thirty years since the first bold flights into space. In 1961, Yuri Gagarin, Alan Shepard, Gus Grissom, and Gherman Titov established the path followed by more than 250 men and women from twenty-two nations. Space stations have

provided semi-permanent homes in space and individuals have continuously lived there for more than a year. Twenty-five humans have traveled to the Moon and twelve have walked on its surface. We are now capable of leaving Earth, living in space, and visiting other parts of the solar system. We have already done all of these things.

While much more remains to be done and learned, there are few fundamental questions. What are our future destinations? When shall we travel to them? How will we plan and conduct future missions while maximizing benefits to humanity? ASE endorses a program that leads to a permanent human presence on the Moon. However, the ultimate destination is Mars. If we begin now, the first human mission to Mars can take place as early as the first decade of the next century. We believe that the necessary political, economic, and technical support can be obtained only with broadly based, and fully integrated, international development of the human mission to Mars and its precursor robotic missions. The great missions of space exploration should represent the best of humankind's talents and imagination from all the nations of Earth.

We believe that international space exploration is a fundamental part of a vision of the future in which humankind, both people and nations, learn to live in harmony with each other and with technology, using space technol-

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to be highlighted by a keynote address by the award winner. Several hours on the second day will be devoted to reports by members on recent developments and technical accomplishments in their respective space programs.

The third day of the Congress will be the annual Community Day, when members will visit schools and community centers throughout the DC metropolitan area to give lectures and presentations. One of the activities scheduled for that day will be a visit to the Marsville Constitutional Convention organized by the Challenger Center for Space Science Education.

In an effort to acquaint members visiting from abroad with some of the key infrastructure of the U.S. space program, the Committee is working to arrange a visit at the end of the week to

NASA's Kennedy Space Center in Florida. Many ASE members have not had the opportunity to tour these facilities, and it is the Committee's hope that such a visit will prove particularly useful in the context of the emerging interdependence of the world's space programs.

The '92 Congress will be capped by an ASE-sponsored symposium at the World Space Congress on the latter's opening day. The session, which has a working theme of 'International Participation in Human Exploration of the Solar System', will be co-chaired by German astronaut Ernst Messerschmid and Polish astronaut Mirosław Hermaszewski. Rick Hauck, chairman of the ASE-USA program committee, will serve as coordinator of the symposium and liaison between its co-chairmen and the World Space Congress. This joint session represents a continuation of ASE's effort to combine forces with other

international professional space organizations in the pursuit of common goals.

Finally, as a cultural adjunct to the '92 Congress, a special ASE art committee has begun to organize a space art exhibition at the World Bank Art Society Gallery which will run from August 17 to September 11. The exhibit, titled 'Space Exploration and the Changing Self Image of Humankind' and scheduled to feature the work of ten leading international artists, will seek to expand the space art genre to include depictions of the diverse cultural and philosophical implications of humanity's venture into the cosmos. □

CORPORATE SPONSORSHIPS

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vide additional members on a case by case basis to international, national and local activities in support of the project. ASE has designated Executive Committee member Bertalan Farkas of Hungary to be its representative to the Foundation, and Patrick Baudry of France will serve as his back-up. Among the objectives of the program are the establishment of a global database on the world's forests to be based in Brussels as well as the creation of an international network of experts who would be joined together through the Project to share information, resources and ideas. In addition to ASE, the World Wildlife Fund for Nature and the Spot Image Company of France will serve as leading Project partners. □

7th CONGRESS STATEMENT

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ogy to protect the home planet, to improve the quality of life for everyone on Earth, and to make other planets livable for humans. This twentieth century vision, which will drive scientific discoveries and technology developments in the 21st century, should receive special attention during 1992, the United Nations International Space Year.

Therefore, we urge the legislators of all nations to endorse space exploration initiatives, to allocate full funding of essential technology developments and stud-

ies, and to remove barriers to full international cooperation. We urge all space agencies of the spacefaring nations to continue their efforts, to place higher priority on exploration initiatives, and to fully integrate potential international contributions into existing and future systems architectures and mission studies. We urge all citizens, and particularly those of spacefaring nations, to actively support exploration initiatives-peaceful activities that can improve the life of every citizen of the Earth. □

Berlin Congress

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this mission of unprecedented magnitude and complexity, cooperation and teamwork represent the baseline mode that will produce the most effective international working relationships. By suggesting Mars as the next human destination, the group added its voice to the growing chorus calling for the establishment of a human link to our closest planetary neighbor. The members recommended a spirit and a direction for human exploration of the solar system, rather than endorsing any particular set of hardware or specific mission architecture.

The recommendation for cooperation also underscored the importance the members attach to the Congress theme 'Space Has No Boundaries'. German Foreign Minister Hans Dietrich Genscher, honored at the Congress for his work in the elimination of boundaries, spoke eloquently to the subject as well. Science and technology, he said, which have given us the capability to destroy ourselves, must rather be used responsibly to serve humanity and preserve the quality of life on Earth for future generations. It is just this responsibility, he concluded, that unites us.

Other guest speakers at the Congress included former ESA Director General Reimar Lüst who presented an account of the value of human exploration and

what Europe is able to contribute to this effort, Mark Craig, head of the Directorate for Exploration at NASA, who outlined current NASA thinking about a return to the Moon and various scenarios for a manned mission to Mars, and Roger Bonnet, Director of ESA's scientific program, who weighed the various rationales for human exploration of Earth's neighbors in space.

In the course of it business, the Congress elected Igor Volk and John Fabian to the Executive Committee and approved a series of amendments to the ASE charter designed to ease the conduct of ASE business over the course of the year. The group asked the Executive Committee and future hosts to schedule more time at future Congresses for technical exchanges. The membership welcomed sixteen first-time Congress participants - John Blaha, Bob Cenker, Sam Durrance, Drew Gaffney, Bill Nelson, Dick Richards, Paul Scully-Power, Jim Lovell, Ron Parise, Alexander Balandin, Viktor Afanasyev, Lev Dyomin, Yevgeni Khrunov, Gennady Manakov, Alexander Serebrov and Valentina Tereshkova-and accepted by acclaim forty-seven new members from the U.S. who were not present. Finally, the body approved an initiative by the ASE-USSR to host the 1993 Congress. The Berlin Congress drew a record fifty-seven astronauts from ten countries. □

New ASE Members

**Viktor Afanasyev
Alexander Balandin
Charles Bolden
Mary Cleave
Lev Dyomin
Gordon Fullerton
Guy Gardner
Richard Gordon
Blaine Hammond
Steve Hawley
Richard Hieb
Millie Hughes-Fulford
Drew Gaffney
Joseph Kerwin
Yevgeni Khrunov
Gennady Manakov
Harrison Schmitt
Paul Scully-Power
Alexander Serebrov
Valentina Tereshkova
James Wetherbee**

"When you look out the other way toward the stars you realize it's an awful long way to the next watering hole."

*Loren Acton, USA
from The Home Planet*

WHAT'S IN A NAME ?

At one of the plenary sessions at ASE's 6th Congress in The Netherlands last year, U.S. member Pete Conrad asked his colleagues, "Why do we always have to say 'astronauts and cosmonauts'? Why can't we just use one word to mean anybody who has flown in space, no matter which country they're from or whose program they've flown on?" The Executive Committee promised to look into the question and recommend a solution by the time of the next Congress. At the Committee's March meeting in Berlin, Alexei Leonov suggested a very simple solution. When you are speaking English, you say "astronaut".

When you are speaking Russian, you say "rjcvjyfdk" (pronounced *kussmanaft*). When you are speaking another language, you use any *single* term of your choosing. The Berlin Congress gave its unanimous approval to the solution, setting a precedent to ease the day when ASE has more than two official languages. In yet another example of its bold stroke leadership, ASE has redrawn the parameters within which the most fundamental term of its profession is defined from those of divisive geopolitics to those which celebrate the richness of cultural diversity. Way to go, guys! □