

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי
Ezra Orion Collection
Public Art Archive

כותרת: פיסול על מאדים, התכתבויות 1990-2001
התכתבויות, כרטיסי ביקור

מיקום בארכיון

ארגז: 25

תיק: 2

תת תיק: --

Title: Mars sculpture, Correspondence 1990-2001
Correspondence, business cards

Location in Archive

Box: 25

Folder: 2

Sub folder: --

המכון לנוכחות ציבורית
המרכז הישראלי לאמנות דיגיטלית, חולון
archive@digitalartlab.org.il לחומרי המקור צרו קשר דרך

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מכון לנוכחות ציבורית
INSTITUTE FOR PUBLIC PRESENCE
معهد للحضور الجماهيري

Midreshet Sde Boker
ISRAEL, 84990
7 May 1990

Dr. Jeoffrey Briggs
Director
Solar System Exploration Division
NASA Headquarter, Washington D.C.

Dear Dr. Briggs,

On the 3th May I was informed by FAX from the ISC that a second meeting between us was fixed for Wednesday 6th June at 10.00 A.M.. Many thanks for your good will.

The suggested work: A hundred m. long local-stone line (right angle) to the cliff-edge of Valles Marineris; communicated by the cameras of the Rover to planet Earth.

I would like to discuss:

- * The progress in the "Sample return mission" since we met on 19.1.88.
- * Is there any updated time-table for the Mission?
- * What kind of activities is programmed for the MarsRover after the take-off of the loaded spacecraft back to Earth, around the year 2000?
- * Is a simulated tests are planned for various proto-tipes of MarsRover in the near future?
- * Would it be possible to test their ability of executing a direct stone line on a desert surface?
- * Is there a cooperation with the Russians in the Mars project, in which sphere, could it shorten the time-table of it?

I would like to report the content of our talk in one-man-panel that is planned for me in the ISC conference on the 8th June.

Sincerely,

Ezra Orion

June 6, 1990

Mr. Stephen E. Ballard
International Relations
NASA Headquarters
Washington D.C.

Sculpture in the Solar System

Dear Sir,

Following the meeting between Dr. Jeoffry Briggs, Director of Solar System Exploration Division, and the sculptor Mr. Ezra Orion, on January 19, 1988 - a second meeting was held on June 6, 1990 in your attendance. The talk has a character of progress report and an exchange of new ideas.

Dr. Briggs described the extremely complicated situation of the Martian project. He quoted president Bush's last month's declaration in which he said "we are now in midway between the landing on the moon in 1969 and landing on Mars in 2019". He emphasized how costly this mission is.

Mr. Orion asked about the unmanned mission. Dr. Briggs expressed an estimate that it will be cheaper and in much closer timing.

Mr. Orion described the sculptural project, to create a total 100 m. long line of stones to the cliff edge of the Vales Marineris, using the robotic arm of the MarsRover.

Dr. Briggs reported that the alternative of a caterpillar-rover was scrapped. The two viable options now are a walker-rover or a wheeler-rover.

Regarding the volume of the local stones that the rover arm can handle, Dr. Briggs assumed it would be of sampling size - rather small.

Mr. Orion suggested to have the wheeler draw a 1 km. long multi track line to the edge of the same cliff. Dr. Briggs regarded this idea as feasible. He added that in 1992 a low orbiter will take much closer photographs of the Martian face, which will enable us to locate smooth areas for that activity.

Mr. Orion inquired whether there are going to be simulations of the Rover in a desert area in the U.S. and whether it will be possible to exercise the sculpture then. Dr. Briggs was

primarily positive. He suggested another possibility for sculpting activities, using the robotic earthworkers planned to help in the construction of a permanent station on the moon.

Mr. Orion inquired about the American cooperation with the Russians in the Mars mission. Dr. Briggs described NASA's policy as multi-national, and suggested that Mr. Orion will contact the Israeli government to encourage them to contact NASA in the scientific, technological, and artistic arenas.

It was agreed that the dialogue established by this meeting be maintained.

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי



Ezra Orion Collection
Public Art Archive

TEL AVIV UNIVERSITY



אוניברסיטת תל-אביב

RAYMOND & BEVERLY SACKLER
FACULTY OF EXACT SCIENCES
THE FLORENCE & GEORGE WISE
OBSERVATORY

הפקולטה למדעים מדויקים
ע"ש ריימונד ובברלי סאקלר
מצפה הכוכבים
ע"ש פלורנס וג'ורג' וייז

August 21st 1990

To: Ezra Orion, Midreshet Sde Boker
From: Sylvia Navon, Wise Observatory

The attached message arrived from Hagai Netzer in the electronic mail today.

As I have been unsuccessful in contacting you by telephone, I am mailing the message to you.

In case you would like to write to the director, as suggested by Hagai in his message, the following are the Headquarters and New Mexico addresses.

National Radio Astronomy Observatory

Headquarters: Edgemont Road
Charlottesville, VA 22903

New Mexico P.O. Box 0
Socorro, NM 87801

I hope that this will help you in your endeavour.

Sylvia Navon

Date: Mon, 20 Aug 90 12:20 EDT
From: NETZER%ASTUVB@OHSTPY
Subject: for Sylvia,
To: b10@TAUNOS.BITNET
Message-id: <4860CA1420FF201C49@MPS.OHIO-STATE.EDU>
X-Envelope-to: b10@TAUNOS.BITNET
X-VMS-To: OHSTPY::IN%"b10@taunos.bitnet"

Dear Sylvia,

Could you please help me to transfer this information to Ezra Orion,
from "Midreshet Sdeh Boker" telephone 057-565720.

1. There is NO ranging (i.e. active radar) facility on any of the VLA (very large array) dishes in New Mexico.
2. The only ranging facility on big radio telescopes in the USA is in Arecibo (largest radio telescope in the world) and the Haystack observatory near Boston (a large single dish).
3. The VLA is operated by the National Radio Astronomy Observatory (see address in the AAS book, in case he needs it) and I would recommend getting in touch with the director regarding any experiment he wants to perform with them. I did not find out more details about the VLA dishes and a good place to check will be Sky and Telescope.

Thanks

Hagai

אוסף עזרא אוריון

ארכיון אמנות במרחב הציבורי



מכון לזיכרון ציבורי
INSTITUTE FOR PUBLIC PRESENCE
مכון للذخور العام



Ezra Orion Collection
Public Art Archive

Midreshet Sde-Boker

ISRAEL 84990

August 28, 1990

Dr. Jeoffrey Briggs
Director
Solar System Exploration Division
NASA Headquarter
Washington D.C. 20546
U.S.A.

Dear Dr. Briggs,

Sculpture on Mars and on the Moon

Thanks for your constant hospitality and open-mindedness in our second meeting on June 6th, at yours.

After our meeting, Mr. Stephen Ballard suggested that I will write a short proceeding of it, send it to him, and he will confirm it. He did not. Can you kindly do it? I enclose the draft of our meeting. Your confirmation will reinforce my intended contact to our government here.

Ezra Orion Collection
Public Art Archive

In order to develop a coherent proposal for sculptural earthworks on the surface of the Moon - by future Robot bulldozers - can someone in your division send me proto-plan of your future scientific colony there, to which this kind of environmental sculpture could be incorporated or related?

Many thanks indeed,

Ezra Orion

Σ. Orion

לפרופ' עקיבא בר-נון
ס.ל.ה.

המכתב לנאס"א

- טיוטא -

בהמשך לפגישותיו של הפסל עזרא אוריון עם ד"ר ג'פרי בריגס 19.1.88,
6.6.90 אצלכם - רציתי לבקש לבדוק היתכנות של:

ארכיון אמנות במרחב הציבורי
- פיסול על-פני מאדים

על-ידי מארס רובר, אל שפת מצוק ולס מרינריס. שילוב של התוויית קולי ישר
מוחלט בשטח מדברי אל שפת מצוק כלשהו, בשלב התדמיות של רכב החלל שלכם.

ARTLAB
- פיסול על-פני הירח
על-ידי דחפורים רובוטיים, במשולב עם כיסויי תחנות מחקר עתידיות שלכם נגד
הקרינה האולטרה-סגולה.

האם תוכל לשלוח לנו תדשים ראשוניים של תחנות מחקר כזאת, כדי שנוכל להציע
שילוב של עבודות עפר פיסוליות בשטחות ביצוע פיסוי המיגון הזה.

ב ב ר כ ה,

- - - - -

- יוגר 544
ד-4/25

US INTERNATIONAL SPACE YEAR ASSOCIATION

600 Maryland Avenue, SW

Suite 600

Washington, DC 20024

Phone (202) 863-1734



July 17, 1991

DATE: _____

12

TOTAL PAGES (INCLUDING THIS LEAD PAGE): _____

TO:

Mr. Len Arnowitz ✓

RECEIVING STATION NO:

011-972-3-536-5205

FROM:

Lisa C. George

SENDING STATION NO:

202-863-5240

ARTLAB

REMARKS:

The following information includes:

1. ISY logo (feel free to use it for ISY project identification)
2. ISY/Congress Joint Resolution (shows ISY "official" status)
3. First page of *ISY NEWS* (the newsletter of the ISY, one of 2 major ways we disseminate info, soon to be mailed out monthly).
4. Front side of an ISY news release (the 2nd major ISY information source, soon to go out bi-weekly).
5. Five selected pages of the 25-page ISY Activities List, updated bi-monthly.
6. Two selected pages of the 19-page ISY Calendar of Events, also updated monthly. (It is a chronological version of the Activs. List).

**We would be happy to list any/all activities that you and the other groups may develop in our Activities List and Calendar. Please send us written details when they become available. We also collect information for possible features in ISY NEWS and ISY news releases.*

Spaceweek 1992 — This week-long celebration of space, held every year on July 16-24 in commemoration of the first Apollo lunar landing, will key its 1992 activities to ISY. *Contact:* Spaceweek National Headquarters, (713) 333-3627.

"Star Trek: Federation Science" — The Oregon Museum of Science and Industry is developing a traveling science exhibit for the ISY that will visit at least ten U.S. sites and be keyed to the 25th anniversary of the "Star Trek" TV series, exploring the scientific challenges of living and working in space today and in the future. *Contact:* Divonna Ogier, (503) 222-2828.

"Universariums" — The United Nations will publish a booklet describing and encouraging the establishment of "universariums" in countries that do not yet have such space science centers, which include in one site such public facilities as planetariums, cinemas, exhibit areas, lecture rooms, and astronomical observatory equipment.

U.N. Monthly Lectures — Distinguished guest lecturers from all corners of the world are giving monthly lectures at United Nations Headquarters in New York during 1990-92 on different topics related to the ISY and outer space, with particular attention to Mission to Planet Earth.

"Where Next, Columbus?" — The National Air and Space Museum in Washington, D.C. will celebrate the ISY and the 500th anniversary of Columbus' first voyage to the New World by opening a major new exhibit gallery in 1992 that will examine the future of space exploration and discovery over the next 500 years. *Contact:* Dr. Valerie Neal, (202) 357-2828.

World Expo '92 — This world's fair in Seville, Spain, running from April through October 1992, will include elements focusing on ISY themes. EURISY is planning an ISY event during the exposition.

CONFERENCES

AAAS Symposium on ISY — The February 1992 annual meeting of the American Association for the Advancement of Science (AAAS), convened in Chicago, will include a symposium on ISY as part of its series of discussions on "Fantastic Voyages: From Columbus to Space."

Asia/Pacific ISY Conference — This major regional ISY session will be convened in November 1992 in Tokyo on the theme of remote sensing applications for developing nations.

Conference of Museums of Cosmonautics — The U.S.S.R. will hold a nationwide ISY conference of space museum officials in Moscow in November 1992.

Conference on Remote Sensing and the Economy — The Soviet Union is planning for mid-1992 a scientific conference on the most pressing problems associated with the use of remote sensing methods to benefit various sectors of the economy.

Delaware Valley ISY Colloquium — The Greater Philadelphia Section of the American Institute of Aeronautics and Astronautics will hold an ISY colloquium on space exploration in March 1992 at the Franklin Institute, where students, educators, and space experts will celebrate the Delaware Valley's participation in ISY. *Contact:* Clifford D. Reinert, (215) 354-2899.

EURISY Symposium on the Earth's Environment — The European Association for the International Space Year (EURISY) hosted a symposium on "The Earth's Environment - An Assessment from Space" on April 10-11, 1991 in Venice, Italy.

European ISY Conference — A worldwide conference on global climate change, dedicated to the ISY and entitled "Space in the Service of the Changing Earth," will bring together some 1,200

Fall 1991

Fall 1991 "Visions of Exploration" curriculum materials become available —
USA TODAY

October-December 1991 International Council of Associations for Science Education (ICAS)
ISY teacher resource materials produced

October 1991

October 1-2, 1991 SAFISY/COSPAR Space Science Panel of Experts Meeting —
Washington, D.C.

October 1-5, 1991 SAFISY Regional Seminar on Tropical Ecosystems — Kota
Kinabalu, Malaysia

October 3-11, 1991 International Astronautical Federation (IAF) Congress — Montreal,
Canada — including U.N./ISY workshop

October 4, 1991 SAFISY Space and Natural Disaster Prevention, Preparedness, and
Relief Working Group Meeting — Montreal, Canada

October 6, 1991 "Spaceship Earth: A Global Geography" TV series premieres in the
United States — South Carolina Educational Television *et al.*

October 15-20, 1991 Expo China '91 — Beijing, China

October 21-25, 1991 SAFISY Productivity of the Global Ocean Working Group Meeting
— Ispra, Italy

October 1991 SAFISY Global Sea Surface Temperature Project Workshop —
Miami, Florida

October 1991 SAFISY Risks of Geological Instabilities Working Group Meeting
and Training Session — Arequipa, Peru

October 1991 SAFISY Urban Pressure on Farming Land Working Group Meeting
— Tunis, Tunisia

October 1991 Young Astronaut ISY fall curriculum materials and educational videoc
distributed

October 1991 — September 1992 "Marsville — The Cosmic Village" student space simulations and
teleconferences — Challenger Center for Space Science Education

November 1991

November 1991 SAFISY Enhanced Greenhouse Effect Detection Project Working
Group Meeting

November 1991 SAFISY Global Sea Surface Temperature Working Group Meeting —
Miami, Florida

- January 1992 Young Astronaut ISY spring curriculum materials distributed and Young Astronaut Reading Club introduced
- January 1992 Launch of the NOAA-I weather satellite — latest in a series of spacecraft whose signals can be picked up by schools in NOAA's Direct Readout program
- January/February 1992 ISY issue of *Quantum* science magazine — NSTA
- January–February 1992 Launch of the Japanese Earth Resources Satellite JERS-1, Japan's first remote sensing satellite
- Early 1992 SAFISY Productivity of the Global Ocean Project initial results
- February 1992
- February 9, 1992 Symposium on ISY at the Annual Meeting of the American Association for the Advancement of Science (AAAS) — Chicago, Illinois
סוף עזרא אוריון
- February 10–14, 1992 ISY Conference on Earth and Space Science Information Systems — Pasadena, California — including presentations/demonstrations by selected SAFISY Earth and space science projects
- February 10–21, 1992 World Congress on National Parks and Protected Areas — Caracas, Venezuela
- February 1992 SAFISY Earth Science and Technology Panel of Experts Meeting — China (T)
ARTLAB
INSTITUTE FOR PUBLIC PRESERVE
- February 1992 ISY issue of *Ciencia Hoje/Ciencia Hoy* science magazine — Brazilian Society for the Advancement of Science
- February 1992 Launch of NASA's Space Shuttle *Discovery* (STS-46 mission)
- March 1992
- March 4, 1992 NASA ISY Interactive Satellite Videoconference (T) — first in a series for students and educators
- March 20, 1992 Delaware Valley ISY Colloquium — Space Exploration: The 21st Century — Philadelphia, Pennsylvania — American Institute of Aeronautics and Astronautics (AIAA)
- March 23–26, 1992 Space Commerce conference — Montreux, Switzerland
- March 26–29, 1992 SOAR 92 (Special Opportunities for Aerospace Resources) Forum on ISY, during National Science Teachers Association National Conference — Boston, Massachusetts — NSTA and Student Space Science Foundation
- March 29, 1992 SAFISY Space and Disaster Prevention, Preparedness, and Relief Working Group Meeting — Munich, Germany

One Hundred First Congress of the United States of America

AT THE SECOND SESSION

Began and held at the City of Washington on Tuesday, the twenty-third day of January,
one thousand nine hundred and sixty

Joint Resolution

Relating to NASA and the International Space Year

Whereas in 1959 Congress proposed an International Space Year (ISY) for 1965, commemorating the 50th anniversary of Columbus' voyage to the New World and the 10th anniversary of the International Geophysical Year that culminated in the space age; and

Whereas Congress also requested the President to enforce the ISY and to initiate interagency and international discussions for its enforcement;

Whereas in 1956 President Eisenhower endorsed the ISY and reported to Congress that NASA had found worldwide support for an ISY in 1959, and the President had initiated a series of international discussions for its enforcement;

Whereas the ISY is a worldwide effort to coordinate and improve on space activities, and to encourage the development of space activities, and to encourage the development of space activities, and to encourage the development of space activities;

Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That it is the sense of the Congress that the President should



Public Art Archive

ISY

APPROVED

JUL 31 1960

Thomas S. Foley
Speaker of the House of Representatives

Carl Albert
Speaker of the House of Representatives

Frank B. Rowland
Speaker of the House of Representatives

One Hundred First Congress of the United States of America

AT THE SECOND SESSION

*Begun and held at the City of Washington on Tuesday, the twenty-third day of January,
one thousand nine hundred and ninety*

Joint Resolution

Relating to NASA and the International Space Year.

Whereas in 1985 Congress proposed an International Space Year (ISY) for 1992, commemorating the 500th anniversary of Columbus' voyage to the New World and the 35th anniversary of the International Geophysical Year that ushered in the space age; Whereas Congress also requested the President to endorse the ISY and to initiate interagency and international discussions for an ISY;

Whereas in 1986 President Reagan endorsed the ISY and reported to Congress that NASA had found worldwide support for an ISY in 1992, consisting of space activities coordinated on a global basis, and the President directed NASA to move the concept forward internationally and to lead an interagency effort for domestic activities;

Whereas NASA has exercised admirable leadership, through the Office of Space Science and Applications and the Division of International Relations, in establishing the Space Agency Forum on ISY (SAFISY) to coordinate ISY planning, with a current worldwide membership of 25 national space agencies or equivalent bodies;

Whereas SAFISY planning is accelerating, with particular emphasis on coordinating current and planned space agency activities so as to improve efficiency and maximize scientific and economic return on space investments; and

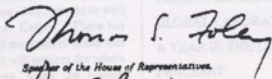
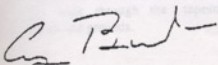
Whereas the ISY also is generating numerous educational activities, including classroom activities, films, television programs, that will greatly improve public understanding of the significance and potential of the space age: Now, therefore, be it

Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That it is the sense of the Congress that the President should—

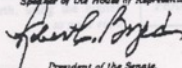
- (1) reaffirm support for the ISY and invite foreign leaders to do the same;
- (2) support the World Space Congress, to be convened in 1992, in its efforts to encourage cooperative space activities among nations in space science, space exploration, and the application of space technology;
- (3) invite the American public to develop ISY activities that foster the global perspective of the ISY;
- (4) direct NASA to continue to develop ISY activities through SAFISY, with a primary emphasis on Mission to Planet Earth, but also with a strong emphasis on the other space sciences, human exploration, education, and developing nations applications; and
- (5) report to Congress at the earliest practicable date, but no later than September 1, 1990, on the steps taken to carry out items (1) through (4) above, including a list of all current and planned NASA initiatives in each of the categories mentioned in item (4).

APPROVED

JUL 31 1990



Thomas S. Foley
Speaker of the House of Representatives



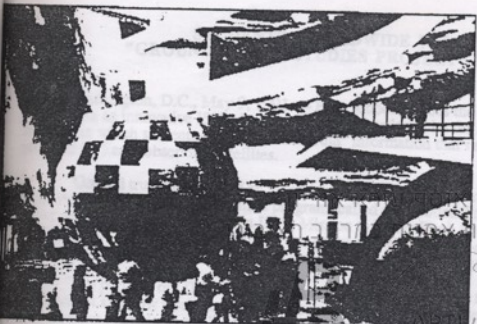
President of the Senate



ISY NEWS

AY 1991

INTERNATIONAL SPACE YEAR 1992



The U.N. lobby will be a 30-foot video sphere and a seven-story image of the Earth.

U.N. SHOWCASES ISY EXHIBIT

Ezra Orion Collection
Public Art Archive

To celebrate the International Space Year, the United Nations will showcase the most ambitious exhibition ever held at its New York Headquarters.

Titled "The Home Planet Exhibition," the high-tech, computer-driven, interactive display will spill from the U.N. gardens and the outdoor plaza to a seven-floor lobby and a gallery space adjoining the General Assembly.

Sponsored by the U.N. Committee on the Peaceful Uses of Outer Space and sponsored by the United Nations Environment Programme, "The Home Planet" is a "uniquely ambitious exhibit that highlights the beauty of the Earth as well as global concerns about its protection," says Jan Ralph, Chief of the U.N.'s Communications Services.

The exhibition will be shown from June through September 1992 to the thousands of tourists and associates from U.N. member nations that daily walk through the Headquarters buildings and grounds.

The exhibition is the creation of Kevin Kelley and his partner Payson R. Stevens. Kelley's best-selling book of images of the Earth, called *The Home Planet*, prompted U.N. officials to contact him regarding a possible exhibit of the work as one of the United Nations' ISY projects. But Kelley, an artist, producer, and editor, saw the exhibit as a challenge to create a sophisticated testimonial to Planet Earth.

Stevens is an oceanographic scientist, filmmaker, author, and award-winning documentary producer, specializing in environmental topics. The project manager is Ian C. McLennan, who has organized three projects at the United Nations.

The total value of the exhibit could be up to \$5 million, but much of that will be provided by donations of equipment as well as sponsorships, notes Kelley. "There has already been a lot of excitement about this project," he says. "It will present the whole tapestry of the Earth, using the highest

to page eight

ISY INSPIRES PBS TV SERIES

Cameras are rolling in nations throughout the world, filming the eight-part, \$7 million public television series "Space Age." The series will celebrate the ISY by examining global ramifications of the Space Age in one-hour programs that will be airing internationally in the summer and fall of 1992.

Produced by WQED/Pittsburgh and NHK/Japan (a public television corporation) in association with the National Academy of Sciences, the series will present a new and compelling look at the 35 years since Sputnik first orbited the Earth and at the continuing and future ramifications of that entree into the global Space Age. It is being funded in part by the Corporation for Public Broadcasting, NHK, and the National Science Foundation.

"We are looking at space in a way that other television series have not," says Greg Andorfer, WQED's "Space Age" producer. "We are examining the ways in which the Space Age has transformed Earth — its history, culture, technology, science — and the way in which we view our world."

The premise of the series is that the Space Age has changed society as much as

to page eight

INSIDE

STAR TREK	Pg. 3
USA TODAY	Pg. 3
GLOBAL VILLAGE	Pg. 4
PROJECT EXPEDITE	Pg. 5
GLOBAL LABORATORY	Pg. 6
A YEAR IN THE LIFE	Pg. 6
PEACESAT	Pg. 7



NEWS RELEASE

INTERNATIONAL SPACE YEAR

US International Space Year Association
600 Maryland Avenue, NW
Suite 640
Washington, DC 20004

Phone: 202-863-1734
Fax: 202-863-1740

upon receipt

STUDENTS WORLDWIDE WILL JOIN "GROUND TRUTH STUDIES PROJECT" FOR ISY '92

Washington, D.C., May 9, 1991 — Pilot schools across the United States have begun field-testing an innovative ISY education program developed by the Aspen Global Change Institute, in which students collect "ground truth" information that verifies environmental data provided by Earth-observing satellites.

"Ground truth" research is an essential validating tool for Earth observation satellite data. In the Aspen Global Change Institute program, called the Ground Truth Studies Project (GTS), young people participate actively in ISY's Mission to Planet Earth by collecting environmental information in their own community. Youngsters also gain a hands-on understanding of remote sensing through classroom activities that use satellite and aerial images of their local area.

"The purpose of GTS is to create an opportunity for students to learn about their local environment and how it relates to global environmental change," notes institute director John Katzenberger. "Students of all ages will make field measurements of local conditions and then share their findings with their peers in different schools and nations worldwide."

In a proposed exercise called "Back to the Future," for example, youngsters will compare satellite photos of their region taken 10-15 years ago and today, to assess the changes that have taken place in their local environment within their own lifetime. They will then go outdoors to see how these images from space relate to what they can observe on the ground.

As they take stock of vegetation, waterways, human development, and other conditions near their home, students will not only gain a greater understanding of satellite remote sensing. They will also be able to speculate on the causes of environmental change, the outlook for their region if current trends continue, and the actions that need to be taken to preserve their community's natural resources.

Twelve pilot schools — located in Alabama, California, Colorado, Michigan, Texas, and Virginia — are currently testing a total of 19 exercises similar to this one. Student and teacher comments will be used to expand and improve the GTS curriculum for ISY 1992, when 60 schools are expected to participate. Several of these will be located outside the U.S., setting the stage for wider international participation in the program in 1993.

To support ISY's Mission to Planet Earth, student ground measurements will be transmitted to global change scientists through programs such as NASA's Joint Venture in Space Science (JOVE). Young people in different countries will also exchange data to give them a taste of international cooperation and increase their appreciation of the ISY's global perspective.

Project exercises are tailored for different age groups, from kindergarten through 12th grade. Teachers receive a handbook containing background information on global change, remote

- more -

craft and ground observatories, lists of potential targets, and notices of observing opportunities (led by the United States).

Guest Observer Programs on Astrophysical Missions — Astronomers worldwide are being invited to submit proposals to analyze data from past space missions and participate in new observations using such spacecraft as the Hubble Space Telescope, Gamma Ray Observatory, and Extreme Ultraviolet Explorer (led by the United States).

Gamma Ray Burst Patrol — The Gamma Ray Burst Network, a coordinated international observing campaign, will seek to improve our understanding of gamma rays by comparing data obtained from ground observatories and such spacecraft as the Pioneer Venus Orbiter, Ulysses, the Gamma Ray Observatory, Mars Observer, and Wind (led by the United States).

LIFE SCIENCES

Symposium on Biomedical Consequences of Living in Space — An international symposium in August 1992 will assess the biomedical issues associated with human exploration of space, including limitations and problems posed by human space flight, effects of long-duration missions, space life science research, life support systems, space habitats, and radiation risks (led by the United States).

Biological Significance of Environmental Parameters of Space and Space Flight — This project is developing improved methods for the evaluation of physical data from space (e.g., radiation, temperature, pressure, atmosphere composition) as they relate to the study of life on Earth, resulting in a test case assessing a specific region of our planet by 1992.

The Impact of the Discovery of Extraterrestrial Intelligent Life — Scientists and other leaders will join together to assess issues related to the Search for Extraterrestrial Intelligence (SETI), focusing on the consequences and the actions that should be taken in the event that intelligent life is discovered beyond the Earth (led by the United States).

MATERIALS SCIENCES

A Bibliography of Microgravity Environments on Spacecraft — An international committee is assembling, and will establish procedures to update, an ongoing bibliography of data taken from spacecraft used to study the effects of microgravity ("weightlessness") in space (led by the United States).

Symposium on International Microgravity Laboratory — A multinational symposium in August 1992 will assess results of the February 1992 flight of the International Microgravity Laboratory aboard the U.S. Space Shuttle, discussing both scientific findings and the implications for future long-term international missions aboard Space Station Freedom (led by the United States).

PLANETARY EXPLORATION

Properties of Venus and Mars and Their Relation to Earth — Three international meetings in August 1992 will use the latest spacecraft data to assess the atmospheres and geology of Venus and Mars, future missions to these neighboring planets, and the insights they may give us about the Earth (led by the Soviet Union and the United States).

Related Contributions of the United Nations,
A SAFISY Affiliate

Acquisition, Processing, and Transfer of Remote Sensing Data — The U.S.S.R. will make satellite photographs available free of charge in 1992 to a number of developing nations, providing them with environmental and Earth resources information on their countries.

Booklet on Mission to Planet Earth — The United Nations is producing a booklet describing the variety of Earth science programs that are being conducted around the world in conjunction with ISY's Mission to Planet Earth theme, to be made especially available to educators, scientists, libraries, and decision-makers in the developing world.

Collection, Analysis, and Application of Satellite Data Sets — The European Space Agency will provide data free of charge to selected African countries observed by existing U.S. and French spacecraft and by the European Remote Sensing Satellite ERS-1 that is scheduled for launch in 1991, with training on remote sensing technology to be provided for African technicians.

Cooperation with Non-Governmental Organizations — The U.N. is developing a workshop/symposium on space applications for Third World countries in conjunction with the World Space Congress in August-September 1992 in Washington, D.C.

International Conference on Satellite Remote Sensing — A U.S.-sponsored meeting on remote sensing applications for Third World resource management and environmental assessment will be convened in Boulder, Colorado from April 27 through May 1, 1992, followed by a three-day workshop on environmental data exchange.

International Training Course on Global Data Sets — The U.S. Government will host a 30-day U.N. training course in September-October 1991 in Sioux Falls, South Dakota, in which 30 international participants will study the use of remote sensing images and other global data in resource management and global change assessment.

Marine Resources and Coastal Environmental Projects — The U.N. Outer Space Affairs Division is offering support to international cooperative projects that are studying and managing marine resources and coastal environments in the Indian Ocean region and possibly in other coastal areas of Africa, Latin America, and the Caribbean.

Regional Workshop on Space Technology for Resource Development and Environmental Management — This March 1992 workshop in Quito, Ecuador, co-sponsored by the government of Japan, will expose resource managers and environmental planners from Latin America and the Caribbean to the capabilities and applications of current remote sensing spacecraft and of future programs such as the Earth Observation System (EOS).

Workshop on Space Techniques to Combat Natural Disasters — A U.N. regional workshop for Asian/Pacific disaster relief officials will be held in Beijing, China on September 23-27, 1991, focusing on the application of satellite technologies to the prevention and relief of natural disasters in developing countries.

NOTE: In addition to the above projects, many SAFISY members and the United Nations are developing or supporting educational activities (see following section).

ISY PUBLIC AND EDUCATIONAL ACTIVITIES*

Confirmed Activities

FILMS AND TELEVISION

"Space Age" — National public television will air an eight-part series on space exploration in 1992 jointly produced by WQED of Pittsburgh and NHK of Japan, in association with the National Academy of Sciences and supported by NASA. The series will be dedicated to the global themes of the ISY, with accompanying educational support materials...

"Age of Discovery" Video — In commemoration of ISY, the 500th anniversary of Columbus' voyage, and the 350th anniversary of Isaac Newton's birth, students of Unionville High School in Pennsylvania are producing a video about humanity's ongoing age of discovery, from the ancient Greeks to today's spacecraft. *Contact:* Helen E. Martin, (215) 347-1600.

"Blue Planet" — This Imax/Omnimax large-format film, inspired by the ISY and featuring footage of planet Earth taken from orbiting Space Shuttles, is playing at the National Air and Space Museum in Washington, D.C. and other theaters worldwide. *Contact:* NASM, (202) 357-2700.

British Industry in Space Year 1992 (BISY92) Broadcasts — BISY92, a joint effort between British industry and government, plans to establish satellite links for cultural, civic, and business exchanges between the United Kingdom and major international cities; pair up schools in the U.K. with those elsewhere in Europe via satellite video; and obtain media coverage for ISY events on television and radio.

Cable News Network (CNN) Programming — The CNN NEWSROOM student news service, distributed to more than 16,000 schools in the United States and overseas, will feature special ISY programming on Mission to Planet Earth throughout 1992. *Contact:* Gary R. Rowe, (404) 827-2145.

Public Art Archive

Educational Television Programs from *Mir* — Soviet cosmonauts will be broadcasting educational programs from the *Mir* space station during 1991-92.

EURISY T.V. Newsflash — The European Association for the International Space Year (EURISY) is producing an ongoing series of television bulletins providing European viewers with information on environmental questions using satellite data. The effort will be expanded in 1992 in cooperation with the United Nations.

ISY Global Telecast — There will be a worldwide telecast dedicated to the ISY's central theme of Mission to Planet Earth, broadcast from several world capitals on Mission to Planet Earth Day, April 25, 1992.

* A number of these activities were initiated through SAFISY, are supported by SAFISY members, or were inspired by SAFISY initiatives.

For additional information on educational activities, please see the International Space Year Educational Activities Catalogue published by the Educational Affairs Division, NASA Headquarters, Code XE, Washington, D.C. 20546.

International Exchange Program and Summer School — The Institute for Security and Cooperation in Outer Space (ISCOS) has initiated this program that will exchange U.S. students and ISY project personnel with counterparts at the U.S.S.R.'s Moscow Aviation Institute, with the potential for expansion to other countries. A summer school in Moscow will also be held. *Contact:* Tom Cremins, (202) 462-8886.

International Set of Resource Materials — The International Council of Associations for Science Education (ICASE), based in the United Kingdom, is leading an effort to develop by 1992 a space bibliography for science teachers and curriculum modules that enhance existing science lessons with examples from space science.

International Space Camp — The U.S. Space and Rocket Center's successful Space Camp program, based in Huntsville, Alabama, will be expanded in August 1992 to include up to 60 students and 40 educators, from as many as 30 nations, in a ten-day series of simulations and briefings focusing on international cooperative space ventures. *Contact:* Scott Osborne, (205) 837-3400.

International Space University — The International Space University, which currently conducts graduate-level summer courses in interdisciplinary space studies, will announce in ISY 92 its plans for establishing a permanent central campus, a two-year Master's degree program, and an electronically linked network of affiliate campuses around the world. *Contact:* ISU, (617) 354-1987.

International Student Olympiad on Space Engineering — College students from around the world are invited to participate in this ISY competition hosted by Moscow State Technical University. A Soviet national contest is being held during 1991, with the winners competing against their foreign counterparts at a session to be held near Moscow in January-February 1992.

International Summer Aerospace Campus Program — This annual summer program for Soviet students is organized by VAKO Soyuz, the All-Union Youth Aerospace Society.

Israeli Satellite Maps — Israel is producing thematic maps from U.S. and French satellite data for educational use in schools.

Maple Aerospace and Young Astronaut Program — Maple Elementary School in Michigan is incorporating ISY into its ongoing aerospace education program, which includes space curriculum materials, field trips, a Space Shuttle simulator, teacher seminars, and an annual Futures in Aerospace and Technologies Day. *Contact:* Karl Klimek, (313) 960-8420.

"Marsville - The Cosmic Village" — The Challenger Center for Space Science Education is planning in 1991-92 a year-long simulated mission to Mars and design of a Martian habitat, involving some 33,000 classrooms around the world and an international "crew" of high school students selected through a worldwide competition. *Contact:* Richard A. Methia, (703) 683-9740.

Mir Experiments — In 1991-92, the Soviet Union will carry on board its *Mir* space station a number of scientific experiments designed by young researchers, college students, and high school pupils from developing countries.

NASA Aerospace Education Services Project — ISY themes will be incorporated into the 1991-92 efforts of this "Spacemobile" program, in which a corps of aerospace education specialists drive NASA vans and conduct programs in schools around the United States. *Contact:* Sherri McGee, (202) 453-8344.

NASA International Space Life Sciences Training Program — In June-July 1992, NASA will expand international participation in its annual six-week residence training program,

FACSIMILE TRANSMISSION

NASA



INTERNATIONAL RELATIONS

NUMBER OF PAGES

8

DATE

5/28/92

PHONE NO.

202-453-8452

FAX NO.

202-453-2628

FROM: STEPHEN BALLARD
NASA HQ
WASHINGTON DC 20546

TO: LEONARD ARONOWITZ

972-3-5365205

Jew:

אוסף עזרא אוריון

I took longer than expected to get

the JPL Press Release (I don't keep Center
Press Releases at HQ).

As all article which may be of interest,
Ezra Orion Collection
Public Art Archive

I mailed the only brochure we have which
shows habitats on other worlds to you
yesterday.

Steve



סלח
28/5-92



JET PROPULSION LABORATORY California Institute of Technology • 4800 Oak Grove Drive, Pasadena, California 91103

June 15, 1982

Ygal Zalmona
Curator of Israeli Art
The Israel Museum
P.O. Box 1299
Jerusalem 91012
Israel

Dear Mr. Zalmona:

Your letter of June 2 concerning Ezra Orion was passed along to me for action.

We will be delighted to help Mr. Orion when he visits the U.S. and the Laboratory.

I will arrange an appointment with one of our geologists who knows about the subject of tectonics on other planets. He will be able to answer any questions.

I have taken the liberty of contacting Tom Branigan of the California Institute of Technology, our parent organization, to set up an interview for Mr. Orion with a geologist there. Caltech geologists are among the world leaders in the subject of tectonics. Since Caltech is only a few minutes drive from JPL, the logistics will be simple.

I think it is early enough that we will have no trouble setting dates. Please let me know when Mr. Orion plans to be in Pasadena.

I won't attempt answers to your six questions, but will leave that to the scientists when Mr. Orion arrives.

Best,


DON BANE

Senior Public Information
Specialist

12 1/7
Midrashat Sde-Boker

June 30th, 1992

Dear Len,

Before you take-off for NASA, I would like to send - a friendly reminder:

- * Please take with you the Future Proposals of 12.5.1992;
- * and a folded poster of the Intergalactic Sculpture;
- * and the two illustrations: of the Northern hemisphere and of the Milky Way, with the Super-Shaft - for the ISYN. Can they send me a copy?
- * In the impressive booklet of the Lunar Outpost, on page 30, a **wheeler bulldozer** is seen scraping loose regolith into a bagging machine. Bulldozers like that could shape **Sculptural Dustworks** on selected sites near Lunar Outposts.
- Does NASA employ any Lunar Landscape Architect with whom I can discuss these ideas?
- * Can you find-out what is their time-table for the Lunar Outpost construction?
- * Can you find-out what is their time-table for landing the MarsRover for the Samples Collection Mission on Mars?
- * Do they execute training exercises for the robot MarsRover in Nevada?

Would it be feasible to incorporate a Robotic Desert Stone Sculpture - a strait 100 m. stone line to an edge of a cliff there?

I renew the invitation for you and your wife for a tour in the Negev desert - here to Sde-Boker - when you are back.

Have a successful time there - -

Sincerely yours,

Ezra

Midrashat Sde-Boker
Negev Desert, ISRAEL
August, 9th, 1992

Charles Herman
Nesiva

Dear Charles,

Space Technology & Sculpture towards 21th Century

(Following our meeting on August 6th)

The idea is to convene toward the end of the International Space Year a Brain Storming forum
- to share pioneering ideas and sculptural proposals for the coming century.

* Date: November 1992.

* Site: NASA branch, Cleveland.

* Suggested participants (according to priority):

1. Robert Morris (Sculptor)
2. Michael Heizer (Sculptor)
3. Volter de-Maria (Sculptor)
4. Newton Harrison (Coceptual artist)
5. Nency Hott (Sculptress)
6. James Turrell (Sculptor)
7. Myself (Sculptor)
8. Robert Hobbes (Art historian)
9. Luci Lippard (Art historian)
10. Jeoffrey Briggs (NASA)
11. David Furchgott (ISC)
12. Louis Friedman (The Planetary Society)
13. Roald Sagdeev (IKI)
14. Claes Oldenburg (Sculptor)

15. James Wyne (Architect)
16. John Russell (Art critic N.Y.TIMES)
17. Robert Hughes (Art critic TIME)
18. Roger Malina (LEONARDO)
19. Auto Piene (M.I.T.)
20. Joe Davies (M.I.T.)
21. Richard Long (Sculptor).

Program:

Friday - Saturday - Sunday:

Introduction: Sculpture in the Solar System and beyond -

Session 1: Sculpture on the Moon

The technological potential;

Brain storming - -

Session 2: Sculpture on Mars

The technological potential;

Brain storming - -

Session 3: Intergalactic Sculpture

The technological potential;

Brain storming - -

מכון לזיכרון ופומביות
INSTITUTE FOR PUBLIC PRESENCE
مركز للذاكرة والحضور



Ezra Orion Collection
Public Art Archive

- * Documentation, Catalogue, Distribution.
 - * Press Conference
 - * Budget
 - * Nesiya / ISC organizer
 - * Call for participants.
- - Counting back for the Luanch - -

Lehitraot -

Ezra Orion

Midrashat Sde-Boker
Negev desert, ISRAEL

84990

November 3, 1992

Dr. Jeffrey Briggs
NASA Headquarters
Washington D.C.
U.S.A.

Dear Sir,

אוסף עזרא אוריון

Environmental Care on Earthlike Planets

As NASA's research of the Solar System nears the stage of establishing scientific outposts on the Moon and on Mars, I was wondering -

Have you considered the credibility of employing landscape architects to shape their environments?

Have you considered employing an environmental sculptors for that purpose?

To what extent the generation of garbage in these sites can be minimized?

Sincerely yours,

Ezra Orion

לא נשלח
למחנה לדא' מאים לאחר הגשת
ה - ©

MESSAGE FROM ARTHUR C. CLARKE IN
VISIONS OF MARS

My name is Arthur Clarke, and I am speaking to you from the island of Sri Lanka, once known as Ceylon, in the Indian Ocean, planet Earth. It is spring in the year 1993, but this message is intended for the future. I am addressing men and women -- perhaps some of you already born -- who will listen to these words when they are living on Mars.

As we approach the new millennium, there is great interest in the planet which may be the first real home for mankind beyond the mother world. During my lifetime, I have been lucky enough to see our knowledge of Mars advance from almost complete ignorance -- worse than that, misleading fantasy -- to a real understanding of its geography and climate. Certainly we are still very ignorant in many areas, and lack knowledge which you take for granted. But now we have accurate maps of your wonderful world, and can imagine how it might be modified -- terraformed -- to make it nearer to the heart's desire. Perhaps you are already engaged upon that centuries-long process.

There is a link between Mars and my present home, which I used in what will probably be my last novel, The Hammer of God. At the beginning of this century, an amateur astronomer named Percy Molesworth was living here in Ceylon. He spent much time observing Mars, and now there is a huge crater, 175 kilometers wide, named after him in your southern hemisphere. In my book I've imagined how a new Martian astronomer might one day look back at his ancestral world, to try and see the little island from which Molesworth -- and I -- often gazed up at your planet.

There was a time, soon after the first landing on the moon in 1969, when we were optimistic enough to imagine that we might have reached Mars by the 1990's. In another of my stories, I described a survivor of the first ill-fated expedition, watching the Earth in transit across the face of the Sun on May 11 - 1984! Well, there was no one on Mars then to watch that event -- but it will happen again on November 10, 2084. By that time I hope that many eyes will be looking back towards the Earth as it slowly crosses the solar disk, looking like a tiny, perfectly circular sunspot. And I've suggested that we should signal to you then with powerful lasers, so that you will see a star beaming a message to you from the very face of the Sun.

I, too, salute to you across the gulfs of space -- as I send my greetings and good wishes from the closing decade of the century in which mankind first became a space-faring species, and set forth on a journey that never can end, so long as the universe endures.

Arthur C. Clarke
Colombo, Sri Lanka
20 March, 1993

MESSAGE FROM JUDITH MERRIL IN
VISIONS OF MARS

We have always dreamed of heaven.

This cannot be the same for you, whose consciousness as a culture began with your ancestors' flight through space.

Also -- however you may have scattered and spread across your planet -- you will have begun with some shared social and linguistic base.

Human cultures and consciousness on Earth evolved in many languages from widely scattered and vastly varied enclaves: some broiling hot, some bitter cold, desert-dry or drenched with rain, on mountaintops, at the seaside.

But the earliest legends of each and every unique culture show that we were all, from the beginning, gazing in awe at the night skies, imagining ourselves somehow descended from those wondrous lights, looking to them for blessings, fearing their displeasure, hoping somehow, some day, to ascend once more to the brightness of the stars.

Long before there was any science of astronomy, we knew the difference between planets and stars. Pre-sciences of astrology everywhere endowed the planets with control of human life.

Great religions were shaped in the image of the constellations. We reached up; we built pyramids, towers, cathedrals, skyrockets, skyscrapers, aircraft. As I speak, it is just over forty years, two terrestrial generations, since our first spacecraft broke free of Earth's gravity.

That venture -- and this one, carrying messages to you who may some day inhabit a planet we call "Mars" -- were made possible by a curious collaboration of science and romance.

Scientists and social/political thinkers had for centuries made use of fables, "future fiction," and imaginary voyages to preach controversial or heretical ideas.

As the advancing technology of astronomy refined our knowledge of the solar system, Earth's Moon became a prime destination for imaginary voyages.

Then, in 1877, Giovanni Schiaparelli observed what were later described as the "canals" of Mars.

This apparent "proof" that Mars had water -- and therefore perhaps life -- inspired a new literary form, the tale of interplanetary adventure.

And the word "Mars" began to become synonymous with "space" -- "Martian" with "extraterrestrial."

Most early spacefaring stories were patterned on the sad history of Earth's internecine warfare: Martians invading Earth were literally monsters; Terrestrials invading Mars were brave pioneers, "civilizing" colonists.

But the dramatic growth of astronomical knowledge in our century plus the ever-closer prospect of actual space flight kept pushing the writers of these romances to more serious speculations.

What technology was needed to escape the nursery of Earth?

What sort of life form might inhabit an alien planet?

How could Terrestrials best survive in space or on the difficult surface conditions of another planet?

Typically, each advance in astronomy or rocketry stimulated "science fiction" writers to new extrapolations. Typically, the thinking of astronomers, rocket engineers and nascent spacecraft designers, was being inspired -- and conditioned -- by reading space fiction.

Now we are learning more about the Earth sciences and becoming aware of the terrible damage done to our native planet by our philosophies of conquest and dominion.

Our stories of Mars are moving away from the inbred idea of the Conquest of Space. We want to revise, not replay, the history of Earth.

We have progressed from the idea of Martian-as-monster through Martian-as-mentor to Martian-as-"just other."

We are beginning to rethink our old dream of terraforming Mars, and speculating instead on how best to adapt ourselves to suit the planet when we can, finally, reach there.

The stories we send you here, taken together, tell a larger story. We who have lived and worked in this confluence of science and speculation send this message of hope:

When our descendants -- your ancestors -- come -- came -- to live on your planet, we pray they came seeking not to conquer a planet, but to find consonance with it.



Ezra Orion Collection Public Art Archive

NEWS RELEASE

THE PLANETARY SOCIETY

65 North Catalina Avenue, Pasadena, CA 91106

(818) 793-5100 • Telex 757511 • FAX (818) 793-5528

Release Embargoed until Tuesday, June 22, 1993

A LIBRARY TO BE SENT TO MARS: The Planetary Society Organizes a Gift to Future Settlers

The Planetary Society, in cooperation with the Russian Space Research Institute (IKI), will create **Visions of Mars** to travel to the Red Planet aboard **Mars 94** when it is launched to Mars next year. A press conference at the Explorers Club will preview this historic undertaking on June 22, 1993, in New York City.

Visions of Mars will be a collection of science fiction stories, sounds and images on a compact disc that chronicle humanity's fascination with Mars and its imagined Martians from H.G. Wells to the present day. A copy of the disc will be placed inside each of the two small stations that **Mars 94** will land on the surface of the red planet in September, 1995.

The flight disc and CD-ROM replicas will be produced by Time Warner Interactive Group (previously Warner New Media) in Burbank, California.

This collection is intended as a gift from our era to the future generations of humans who will one day explore, and perhaps settle, Mars.

Dr. Carl Sagan, President of The Planetary Society,

describes the rationale behind **Visions of Mars**: "Before our technology caught up with our dreams, the way to Mars was described by the great writers of modern science fiction. Those who built and operated the first robot explorers of Mars, the Mariners and Vikings, and those who are now designing new missions -- for robots and for humans -- often recall how their sense of wonder was first excited by science fiction. The earliest adventures of space exploration were some mix of fiction and reality, interacting in the minds of the spaceflight pioneers.

אוסף עזרא אוריון
ארריון אמנות במרחב הציבורי
"Now, in 1993, we are preparing the first mobile robotic explorers of Mars, and human exploration of Mars is becoming more and more feasible. It seems appropriate to place a collection of these works on Mars -- as a motivation and memento for future explorers there. These will be the first volumes of **Visions of Mars**."

Ezra Orion Collection

Public Art Archive

Future recipients of the discs will find them in protected locations inside the small landers. A label on the exterior of each lander will announce in five languages the presence of the disc and how to play it. A microdot on the surface of the disc will contain additional technical information about its operation.

The five languages on the disc label -- English, Finnish, French, German and Russian -- reflect the languages of the Mars 94 mission team participants.

Contents of Visions of Mars

Visions of Mars will contain the equivalent of several thousand pages of fiction from writers around the world, from H.G. Wells to Isaac Asimov, Alexei Tolstoi to Kurt Vonnegut.

At the press conference, the editors plan to issue a special call for additional submissions from non-English speaking countries. All stories will be recorded onto the disc in the language in which they were written.

The disc will also include a portion of the Orson Welles radio broadcast of War of the Worlds that panicked thousands of people when it aired on Halloween in 1938; an audio recording made the night that the Viking 1 lander made the first successful landing on Mars, featuring reactions from Gene Roddenberry, Robert Heinlein, Ray Bradbury and others; and brief messages to the future inhabitants of Mars from key figures such as Arthur C. Clarke.

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Public Art Archive

A portfolio of artwork will document the changing views of Mars in the popular imagination with images from classic science fiction stories and films as well as works of astronomical art. Artists include Kelly Freas, Frank R. Paul, Frank Frazetta, Chesley Bonestell, Andrei Sokolov and Robert McCall.

Jon Lomberg, the artist and journalist who was on NASA's Voyager Interstellar Record design team, is supervising the production and editorial content of **Visions of Mars**. Science fiction writer and anthologist Judith Merrill is Consulting Editor of the selected stories.

The Merrill Collection of Science Fiction, Speculation and Fantasy, a major science fiction library in the Toronto Public Library system, is coordinating story research and selection. John Robert Colombo, an anthologist and science fiction scholar, and Lorna Toolis, Head Librarian of the Merrill Collection, serve on the Editorial Board choosing the stories, together with Lomberg, Merrill and Sagan.

Development of Visions of Mars Disc

The Planetary Society is producing Visions of Mars in agreement with the Space Research Institute of the Russian Academy of Sciences. Time Warner Interactive Group (TWIG) will be responsible for the interface design, programming and disc production and manufacturing. The CD-ROM will be designed to play on both Apple and IBM computers.

Gene Giberson, former Assistant Director of Flight Projects at the Jet Propulsion Laboratory, is providing The Planetary Society with technical supervision of disc materials, testing and rating for spaceflight. The flight disc must be able to withstand both the landing shock on Mars (up to 200 g's) and temperatures ranging from -115 to +55 degrees Centigrade over its anticipated lifespan of a century or more. Viacheslav Linkin, Project Scientist for Small Stations on Mars 94, is responsible for the integration of the discs on the landers.

If the disc is not delivered safely to the surface of Mars as planned -- either through a mission failure or some other

unforeseen circumstance -- The Planetary Society and IKI will prepare the disc again and will seek its inclusion in the next mission to land on Mars.

The Planetary Society

Carl Sagan, Bruce Murray and Louis Friedman founded The Planetary Society in 1980 as a non-profit organization dedicated to the exploration of the solar system and the search for extraterrestrial life. With 100,000 members in over 100 nations, the Society is the largest space interest group in the world.

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי
-000-

For additional information (including photos), contact:

Susan Lendroth (818)793-5100.

מוזיאון תל אביב
מוזיאון תל אביב
מוזיאון תל אביב



Ezra Orion Collection
Public Art Archive

THE PLANETARY SOCIETY

65 North Catalina Pasadena, CA 91106

JON LOMBERG
P.O.Box 207
Honolulu HI 96726
U.S.A.
Tel. 808/328-9598

AIR MAIL
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אוסף עזרא אוריון

ארכיון אמנות במרחב הציבורי

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מכון לתפוצה הציבורית

84990

Ezra Orion Collection

Public Art Archive

ISRAEL

AIR MAIL
PAR AVION



August 3, 1993

Dear Jon ;

I agree. Will send you more material.

E.O.

EZRA ORION

This will express an agreement between EZRA ORION ("Author"),
whose address is _____
and The Planetary Society, 65 North Catalina Avenue, Pasadena, CA 91106 ("Society")
regarding Take it from p. 101 and p. 110 ("Property").

1. The Author grants the right for the Property to be electronically encoded on a disc to accompany the joint Russia/US Mars probe for the exploration of Mars, currently scheduled to be launched in Fall 1993 (1994).
אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי
2. The Author further grants the electronic right to include the Property on a replica of the MarsDisc in CD-Rom format or any other electronic format hereinafter devised in the future, which products may be sold throughout the world.
3. The Author further grants the right to include the Property in a companion book anthology of the material included in the MarsDisc, such as to be for publication throughout the world in all languages.
INSTITUTE FOR PUBLIC PRESENCE
מכון להצגה פומבית
4. The grant of rights herein is automatically added to the inclusion of the Property as a part of the electronic Public Art Archive of the MarsDisc.
5. All rights granted herein are non-exclusive, and all rights not specifically granted herein are reserved in full by the Author.
6. The Author waives any and all royalties and other proceeds and income for the benefit of The Planetary Society.
7. All use of the Property will be accompanied, where possible, by the following credit/copyright line: E.O. DESERT SCULPTOR ISRAEL
8. The foregoing represents the entire agreement and understanding between the parties and may not be changed or modified except in writing and agreed to by both parties.

EZRA ORION

AUTHOR

E. Orion

August 3, 1993

Dear Jon ;

I agree. Will send you more material.

E.O.

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whose address is _____
and The Planetary Society, 65 North Catalina Avenue, Pasadena, CA 91106 ("Society")
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3. The Author further grants the right to include the Property in a companion book anthology of the material included on the MarsDisc, such grant to be for publication throughout the world in all languages.
4. The grant of rights herein is specifically limited to the inclusion of the Property as a part of the electronic or print editions of the MarsDisc.
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6. The Author waives any and all royalties and other proceeds and income for the benefit of The Planetary Society.
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EZRA ORION
AUTHOR

E. Orion

אין לוחית

מדרשת שדה בוקר בנגב

מחלקה

18/93

התאריך

אל: שכל אוריון

מאת: מ"מ

מאת

תיק מס'

הנדון:

14¹⁵

1) הפניה שנתנה אוריין בעלה 14¹⁵
(צ"ח, אוריין אוריין בכתב היד)

2) (אוריין שנתנה אוריין) (המכירה)
ש"מ אוריין אוריין (המכירה) ש"מ אוריין

Ezra Orion Collection
Public Art Archive

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אוריין

מ"מ

היא אוריין אוריין
מאת

חסוך הדפסה ! טופס זה מיועד להתכתבות ביד.

Midrashat Sde-Boker, Negev Desert, ISRAEL - 84990

FAX: 057-558352

August 3, 1993

Dear Jon,

- - About 3 years since we met here - -

This afternoon I sent you 'I agree' FAX.

- As a desert sculptor I prefer to have on the CD-ROM the stone-line on the Zin plateau - the small picture on p.110 - more then my written lines.
Can you find a way to add, that the photo is by: Avraham Hay.
Landed there it will be a powerful pre-sculpture act.
- Can you give me more information on this Marsian Mission?
- Can THE PLANETARY SOCIETY join the list of supporters for the Intergalactic Sculpture - as a major one? The launch of your CD-ROM on 1994 could be also a substantial course step, toward the launch of Super-Cathedral II on April 2000.

Ezra Union Collection
Public Art Archive

Can we join forces - -

Lehitraot - -

yours -

EZRA

2 816

...h does happen in Oct. 94, I will
...akhstan for the launch. After
...em for the International Astronautical

We are still hoping that the spacecraft will be launched in October 1994 and will land on Mars in September 1995. There is, of course, the possibility that the launch may slip until 1996 if the Russians cannot finish building the spacecraft on time.

If the launch does happen in Oct.94, I will probably go to Baikonur in Kazakhstan for the launch. Afterwards, I will come to Jerusalem for the International Astronautics Federation meeting that will be held there. We might make a presentation about our project. If so, I look forward to seeing you then. Did you ever hear anything more from Yigal Salmona about a show of astronomical art in Israel?

Yours,

ON

مكتبة

ה'תשנ"ב	15	מ
ה'תשנ"ג	17	מ

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JON LOMBERG
124A Painted Church Road
P.O. Box 207
Honaunau, Hawaii 96726
Tel. 808-328-9598 Fax, 808-328-9692

0017

Oct. 27, 1993

Dear Ezra,

We are still working on VISIONS OF MARS. All of the contents have been selected, and we are recording everything onto the CD ROM now. We hope to have the disc finished in January, and will deliver it to Russia for placement on the spacecraft then. Your photograph has been recorded already, and the notes to the art gives a credit to Avraham Hay for the photograph, as you requested.

We are still hoping that the spacecraft will be launched in October 1994 and will land on Mars in September 1995. There is, of course, the possibility that the launch may slip until 1996 if the Russians cannot finish building the spacecraft on time.

If the launch does happen in Oct. 94, I will probably go to Baikonur in Kazakhstan for the launch. Afterwards, I will come to Jerusalem for the International Astronautics Federation meeting that will be held there. We might make a presentation about our project. If so, I look forward to seeing you then. Did you ever hear anything more from Yigal Salmona about a show of astronomical art in Israel?

Public Art Archive
Yours,

Jon

15/M
17/M

Midrashat Sde-Boker

ISRAEL

27 October, 1993

Mr. Jon Lomberg

Project Director

Planetary Society

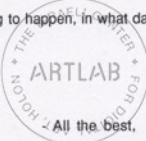
Dear Jon,

Did you complete your CO-ROM project of 15 August - 15 September?

When the launch of the Mars lander is going to happen, in what date?

When the landing on Mars is planned ?

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INSTITUTE FOR PUBLIC PRESENCE
معهد للذاكرة العامة



Ezra Orion Collection
Public Art Archive

Ezra Orion

E. Orion

65 North Catalina Avenue, Pasadena, CA, U.S.A.

FAX: 818 793 5528

001-

98 95 89 32 808 - 001

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי



מכון לרשימות ציבוריות
מרכז המחקר והמחקר
מכון למחקר המחקר



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THE PLANETARY SOCIETY

85 North Catalina Avenue, Pasadena, CA 91106 • 818-793-5100 • FAX 818-793-5528 • TELEX 757511

July 30, 1993

Dear Ezra,

Shalom! I am directing a very unusual project for The Planetary Society (USA) and the Russian Space Agency. I am making a CD-ROM to be sent to Mars in 1994. On this CD-ROM will be science fiction stories and artwork about Mars. It is a gift for the future men and women who live on Mars. It will tell them how important the artistic imagination has been in inspiring the real exploration of space.

I would like permission to reproduce the Hebrew text that appears on p. 100 of your book "Sculpture in the Solar System", and possibly the photograph that appears on p.110 showing the location for sculpture sites, along with a close-up view of your row of stones. I don't know how much room there is on the CD-ROM for pictures, and I don't yet know if we can fit the photograph on, but we certainly can put the text on p.100 on our disc, called VISIONS OF MARS.

About 40 artists will be represented in this portfolio. If you want to participate, please sign and return the enclosed permission form to me as soon as possible. Mail to The Planetary Society in Pasadena, but please let me know by fax to Hawaii (808-328-9692) if you agree. I am home in Hawaii until Aug. 13, then I will be at the Pasadena offices for 1 month, producing the CD-ROM. If you call me in Hawaii before Aug. 6, Sharonna will be here to help translate Hawaii is 12 hours earlier than Israel. Call with questions (808-328-9598)

If your work is sent to Mars, the Planetary Society will also want the right to reproduce these pages in copies of the CD-ROM sold on Earth. All the royalties go to supporting Mars exploration. Payment to you is the honor of having your work sent to Mars. Perhaps future artists on Mars will realize your dream of sculpture there!

With best wishes,

Jon
Jon Lomberg
Project Director

Received

E. Orion

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educator and juror

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Professor of Physics,
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founder, Common Cause

MARC GARNEAU
Canadian astronaut

GEORGY GOLITSYN
Institute of
Atmospheric Physics,
Academy of Sciences
of the USSR



National Aeronautics and
Space Administration

NASA Headquarters
Washington, D.C.

Space Science Short

March 1994

Highlights of STS-61: The First Hubble Space Telescope Servicing Mission

Astronauts who recently serviced the Hubble Space Telescope accomplished everything they had planned to do, and in the process racked up a record five space walks in a single Shuttle mission. After years of planning and training, their success demonstrated that spacewalking astronauts could effectively work in space.

The bus-size observatory, fitted with corrective optics to compensate for its incorrectly shaped primary mirror, can now carry out most if not all of the scientific observations astronomers intended.

The Flaw and the Fix

Launched on April 24, 1990, the Hubble Space Telescope (a joint project between NASA and the European Space Agency) was designed to be the most powerful astronomical observatory ever built. And indeed, the telescope surpassed the capabilities of ground-based optical telescopes for many types of research. The keys to Hubble's optical prowess were its position far above Earth's atmosphere, which obscures or distorts light emitted by celestial objects, and its complement of powerful instruments.

Two months after its release into orbit, however, scientists and engineers discovered that the curvature of the telescope's primary mirror was slightly—but significantly—incorrect. Near the edge, the mirror was too

flat by an amount equal to 1/50th the width of a human hair. Instead of light being focused to a sharp point, light collected by the mirror spread over a larger area resulting in a fuzzy halo.

NASA coped with Hubble's fuzzy vision by using computer processing to sharpen images. For bright objects, the technique yielded breathtaking detail never before seen from ground-based observatories.

To realize its full potential, however, the telescope would have to be repaired. The mirror itself couldn't be fixed or changed; so the challenge facing NASA was developing corrective optics that could be applied to the observatory's instruments, much like eyeglasses or contact lenses correct human sight. Although the task proved technically challenging, it was not impossible primarily because NASA had always planned to service Hubble.

When the Hubble project began in the early 1980s, engineers designed the telescope so that astronauts could more easily change failed parts or update the telescope with more advanced instruments. Instruments, for example, were designed like dresser drawers. They could be pulled out and replaced with others of similar size.

Midrashat Sde-Boker

ISRAEL

25 April, 1994

Mr. Jon Lomberg
Project Director
Planetary Society
U.S.A.

Dear Jon,

Following your Letter of Oct. 27, 1993, Did you complete your CO-ROM for Mars?

ארכיון אמנות במרחב הציבורי
Is the launch ready for this October from Baikonur in Kazakhstan?

On what date you plan to be here in Jerusalem?

מכון לזיכרון ופיוס
INSTITUTE FOR PUBLIC PRESENCE
معهد للذاكرة والمصالحة



Ezra Orion Collection
Public Art Archive

Yours,

EZRA

FAX: 001-808-328-9692

לד"ר מרסל קליין

רכז סוכנות החלל הישראלית

תל-אביב

שלום -

שיתוף פעולה

□ מציע לשלב בתוך פרויקט ה-Mars Rover של NASA 120 דקות תרגול רובוטי של הצבת קו ישר של אבנים מקומיות - לקראת ביצוע על-פני המאדים - לאחר השלמת ה-Sample Collection Mission 2001.

שהתרגול יוסרט, בנוכחותי, מטעמכם.

□ מציע שבקונגרס האסטרונאוטיקה, 14-9 אוקטובר בירושלים, אקבל 30 דקות להסרת קרטון הדמיון (שמוכן כבר) על הפיסול של המאסרובר על המאדים, וקרטון וידאו על הפיסול הדינמי-נאליקטי.

□ מציע שגיון לומברג, שאמור להשתתף בקונגרס, יתן לפני דרך על ה-CD-ROM, שהוא הפיק Vision of Mars להיות משוגר מ-Baikonur קזכסטאן, כשבוע קודם ובו גם צילום של פסל מדבורי שלי.

להתראות,

עזרא אוריון

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Professional Fellow,
The Australian National
University, Canberra

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Chancellor, Memorial
Sloan Kettering
Cancer Center

JAMES VAN ALLEN
Professor of Physics,
University of Iowa

(abbreviations for identification only)

June 27, 1994

Dear Ezra,

אוסף עזרא אוריון

ארכיון אמנות במרחב הציבורי

No, I will not be coming to the IAF meeting in Jerusalem.

Louis Friedman, the Director of The Planetary Society will be there and will be presenting a paper we have written about the Mars CD. As you may have heard, the Russians have postponed the launch of the mission until October 1996.

נניח לנחמתי
INSTITUTE FOR PUBLIC ARTS
Yours,

Ezra Orion Collection
Public Art Archive



LOMBERG

18.8.94

לכבוד
מר ע. אוריון
מדרשת שדה בוקר
מיקוד 84990

לעזרא שלום רב,

אני שולח לך העתק מהמכתב ששלחתי לד"ר וון מולדאו, המארגן ישיבה מליאה מתאימה ביום
ה' 13/10 ב 11³⁰, המדבר בעד עצמו.
ארכיון אמנות במרחב הציבורי
בקשר לפרידמן אני מציע כי תכתוב לו ישירות לפי כתובת ה Planetary Society - במדת הצורך
אשמח להפגיש אתכם בזמן הכנס.



מכון תרבות
INSTITUTE FOR CULTURAL PRESERVATION
مركز الحفاظ الثقافي



יעקב תמנה
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Technion - Israel Institute of Technology

הפקולטה להנדסת אוירונautics וחלל
Faculty of Aerospace Engineering

קרית הטכניון, חיפה 32000
Technion City, Haifa 32000
ISRAEL



ארכיון אמנות במרחב הציבורי



מכון לטיפוח ציבורי
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84990

יפה תמנת

היקף



45th INTERNATIONAL ASTRONAUTICAL CONGRESS
JERUSALEM, ISRAEL, OCTOBER 9 - 14, 1994

Dr. H.H. Van Muldau
P.F.I.A.T
Dieburger Strasse 83
64380 Rossdorf
Germany

18/8/94

Dear Dr. Van Muldau,

I write to you as chairman of the Thursday noon plenary (October 13th, 11³⁰)
as a result of a discussion I had recently with Jo Hess.

A local sculptor, Mr. Ezra Orion, is working on robotic sculptor simulations
for the Mars Rover in the Negev Desert, which is in many ways akin to
Martian landscapes.

He would like to show a short film of about 10 minutes at
the IAF Congress in Jerusalem. I thought this could fit at the end of your
plenary. He has been in past in contact with the Planetary Society (See his
attached correspondence with Mr. Lomborg).

If the idea appeals to you, please write me or correspond directly with
Mr. Orion. His address is Midrashat Sde-Boker, Negev Desert,
ISRAEL-84990.

All the best

Y.M. Timnat
Y.M. Timnat

היה זהו של הפסל
עצמאי עזריאל

Midrashat Sde-Boker

84990 . ISRAEL

4.10.94

CARL SAGAN

President

LOUIS FRIEDMAN

Executive Director

JON LOMBERG

Project Director

THE PLANETARY SOCIETY

U.S.A.

אוסף עזרא אוריון
DESERT SCULPTURE on MARS
אוסף אנונימי במוזיאון תל אביב

Dear Prof. Sagan:

Hopefully I will meet Louis Friedman next week in Jerusalem - to deliver to you the video of the Semi-Desert Sculpture at the edge of the "Vales Marineris Cliff" that we filmed at the edge of the Zin plateau here last December. I include to it a copy of "Sculpture in the Solar System", 1985, and a folded poster of the "Super Cathedral I", 27.4.1992.

Can I join you as a member of your Society - to contribute an Astro-Sculptural ideas/projects to your activities?

Best regards,

Ezra Orion
Desert Sculptor

5 X

August 21, 1994

מדרשת שדה בוקר

היחידה לפיתוח תכניות לימודים

מדרשת בן גוריון, 84990 טל. 07-565720 פקס. 07-558352



Mr. Louis Friedman
Executive Director
The Planetary Society
65 North Catalina Ave. Pasadena, U.S.A.

Dear Louis Friedman,
Desert Sculpture on Mars

I have a dialogue with Jon Homberg for many years, including the CD-ROM project for MARS. In his letter of 27 June he informed me that he will not come to the IAF meeting in Jerusalem, October 9-14, and that you will present there a paper on that project. I suggest that after yours I shall screen a 10 minutes film - a look desert simulation of putting a stone-line by a machine near Sde-Boker on 30/12/93, proposed for MARS.

Thankfully hope to meet you there

Ezra Orion

cc:

prof. Yakov Timnat
Technion, Haifa
Yosi Elihue, Director, Midreshet
Sde-Boker

E. Orion





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Canadian astronaut

GEORGIY GOLITSYN
Institute of
Atmospheric Physics,
Russian Academy of Sciences

August 23, 1994

Mr. Ezra Orion
The Unit for Developing Programs in
Environmental Education
Sade Boker College
ISRAEL 84990

FAX - 972 7 565720

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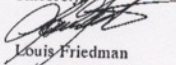
Dear Mr. Orion:

Ezra Orion Collection

Thank you very much for your letter about your "Desert Sculpture on Mars." I appreciate your idea about screening the film concerning the desert sculpture after my talk at the International Astronautical Federation meeting. However, such a presentation violates the rules of the IAF and would not be allowed at the meeting. If you would care to send me a copy of your video, I'll be glad to look at it and suggest an appropriate venue for its showing.

Thank you for interest.

Sincerely,


Louis Friedman

TICCOONE M. HESBURG

President Emeritus,
University of Notre Dame

SHIRLEY M. HUPSTECKER
educator and artist

GARRY E. HUNT
space scientist,
United Kingdom

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SALLY RIDE
Director, California Space
Institute, University of
California, San Diego,
and former astronaut


RONALD Z. SAGDEEV
former Director, Institute for
Space Research, Russian
Academy of Sciences

HARRISON H. SCHMITT
former US Senator,
New Mexico, and
Apollo 17 astronaut

S. RIDGS TAYLOR
Professorial Fellow,
Australian National
University, Canberra

JAMES VAN ALLEN
Professor of Physics,
University of Iowa

listings for identification only

TELEFAX No. 00972-4-231848	<div style="text-align: center;">  <p>הטכניון - מכון טכנולוגי לישראל הפקולטה להנדסה אווירונאוטית וחלל</p> <p>TECHNION - Israel Inst. of Technology Faculty of Aerospace Engineering</p> </div>		
Sender: <i>מ/מ 110</i> Tel. No. 00972-4-			
TELEFAX No. <i>02-558352</i>	Date <i>19/9/94</i>	No. of Pages <i>1</i>	
To <i>מ/מ 110</i>	CC/To		
<div style="text-align: center;"> <p>אוסף עזרא אוריון ארכיון אמנות במרחב הציבורי</p> </div>			
Subject <i>מ/מ 110</i>			
Ref.			

IP

מכון לטכנות ציבורית
 INSTITUTE FOR PUBLIC PRESERVATION
 معهد للتكنولوجيا العامة



Ezra Orion Collection
Public Art Archive

Rec'd = 00/04/95

3/10/94
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13/10 1994

THE PLANETARY SOCIETY

65 North Catalina Avenue, Pasadena, CA 91106 • 818-793-5100 • FAX 818-793-5528 • INTERNET tps@psosunsa.com

October 17, 1994

Ezra Orion
Desert Sculptor
Midrashat Sde-Boker
84900 Israel

אוסף עזרא אוריון

ארכיון אמנות במרחב הציבורי

Dear Ezra:

I very much appreciated learning of your work and your creative ideas for a Mars sculpture. I think it is extremely worthwhile and hope to encourage consideration of a tele-sculpture on Mars with a Mars rover in one of the early rover missions.

Specifically, I will bring the matter to the attention of rover mission managers in both the American and Russian planned missions. My guess is that they would only be able to consider it as an optional addition to the mission plan after initial technical objectives are met and when it is sure that all teleoperations are proceeding smoothly during the mission. But, given these conditions, I hope they would be favorable to the idea.

It may be that we will be able to offer you an Earth test of the sculpture through teleoperation during one of the rover field tests in the next year. You might even be able to do it from Israel via telephone modem connection with a personal computer. I will investigate this.

Since our meeting, I have discussed the sculpture with several people. As you might guess, there are many opinions. Most of the discussion revolves about "what is art" -- the wondering if the lining up of rocks (which incidentally is not an easy chore) is most appropriate. Of course, the form of the sculpture is up to the sculptor. I would encourage you to think about the art, and the need for everyone involved to be able to communicate about it.

THEODORE M. HESBURGH
 President Emeritus,
 University of Notre Dame

SHIRLEY M. HARTSTEDLER
 educator and jurist

GARRY E. HUNT
 space scientist,
 United Kingdom

SERGEI KAPITSA
 Institute for Physical
 Problems, Russian
 Academy of Sciences

DONALD J. KUTYMA
 Vice President,
 Advanced Space Systems,
 Lowell Corporation

JOHN M. LOESDON
 Director, Space
 Policy Institute, George
 Washington University

HANS MARKS
 The University of Texas
 at Austin

JAMES MCNEHER
 author

MALVIN MINICKY
 Toronto Professor of Made
 Arts and Sciences,
 Massachusetts Institute
 of Technology

PHILIP MORRISON
 Institute Professor,
 Massachusetts Institute
 of Technology

PAUL NEWMAN
 actor

JUN NISHIMURA
 former Director General,
 Institute of Space and
 Astronautical Science,
 Japan

BERNARD M. OLIVER
 Chief, SETI Program,
 NASA/JPL/UCR Research
 Center

SALLY RIDE
 Director, California Space
 Institute, University of
 California, San Diego,
 and former astronaut

RONALD Z. SAGDEEV
 former Director, Institute for
 Space Research, Russian
 Academy of Sciences

HARRISON M. SCHMITT
 former US Senator,
 New Mexico, and
 Apollo 17 astronaut

S. ROSS TAYLOR
 Professor, Fellow,
 Australian National
 University, Canberra

JAMES VAN ALLEN
 Professor of Physics,
 University of Iowa

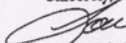
(signatures for identification only)

Lining up rocks is a big targeting and sequencing job. Also the availability of easily moved rocks is not certain. The simpler ideas you first expressed to me of 2-4 rock sculptures (like a cairn) might be more feasible. Anyway, this all needs discussion and experimentation, in my opinion.

We appreciate your interest and connection with us. I hope we can follow this idea up successfully. As I told you we also will be working with the Weizmann Institute in Rehoveth to discuss additional programs in support of solar system exploration in their Garden of Science.

With best wishes.

Sincerely,



Louis Friedman

אוסף עזרא אוריון

LF:lw

ארכיון אמנות במרחב הציבורי

P.S. I heard you were looking for me after the plenary session. I heard your talk, and then left. You maybe wanted to give me the videotape, but that is OK. I don't need it -- the "rover" looked too much like a bulldozer anyway.

cc:

C. Sagan

J. Lomberg

D. Shirley, JPL

A.J. Spear, JPL, Mars Pathfinder Project

V.M. Linkin, Mars 98 Rover Project

מכון לזיכרון ציבורי
INSTITUTE FOR PUBLIC PRESENCE
מועדון הזיכרון הציבורי



Ezra Collection
Public Art Archive

Midrashat Sde-Boker
Negev Desert, ISRAEL
October 26, 1994

Louis Friedman
Executive Director
The Planetary Society
U.S.A.

Dear Louis,

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

Desert Sculpture on Mars

- an Earth test -

Thanks a lot for your encouraging letter of October 17.

It is a positive way forward if we reached the stage, that the wondering "what is art" reached your people - -

As a background, I send you 'Sculpture in the Solar System', 1985. In p. 51 - the 800 m. long limestone line, here, toward a cliff-edge of the Zin canyon, could be the proposal for Mars - toward the cliff-edge of the Vales-Marineris - -

Is it possible to incorporate in the training of the MarsRover candidates - a robotic stone lining of desert local stones toward a local cliff edge - as a simulation of Vales Marineris one?

~~לפרס' חתום עז-נין~~
~~03-6409282~~

10 x

Is it possible to film its act? Is it possible to invite me, as an artist-guest, to join this exercise at yours - during the Earth test - a practical brainstorming - -

I could look for some sponsor to cover the travel cost etc. - when it comes to it.

You write: "This all needs discussion and **experimentation**" - Let us start this conceptual and practical dialogue - at yours - -

Sincerely,

Ezra Orion

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

Enclosed: 'The Ultimate Earthwork' by

Prof. Philip Leider, April 27, 1992.

'Sculpture in the Solar System', 1985.

מכון לזיכרון וידידות
INSTITUTE FOR PUBLIC PRESENCE
معهد الذاكرة والصداقة



C.C.: Prof. Yuval Ne'eman, Chairman, The Israel Space Agency.

Prof. David Abir, Deputy Chairman, The Israel Space Agency.

Prof. Akiva Bar-nun, Vice Chairman (Science), The Israel Space Agency.

Dr. Marcel Klajn, Director, The Israel Space Agency.

Prof. Hagai Netzer, Astronomy, Tel-Aviv University.

Yigal Zalmona, Chief Curator, Israel Museum

Yosi Elihou, Executive Director, Midrashat Sde-Boker.

THE PLANETARY SOCIETY

85 North Catalina Avenue, Pasadena, CA 91106-2301

voice: (818) 793-5100 fax: (818) 793-5528

e-mail: tps@genie.geis.com

MEMORANDUM

PAGE 1 OF 1

TO: Ezra Orion

FROM: Louis Friedman

DATE: March 20, 1995

FAX 972 7 565720

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

Dear Ezra:


Thank you very much for letter inviting Dr. Sagan to provide a short video for the "Concepts and Expression of Infinity" symposium.

Unfortunately, as you may have heard, Dr. Sagan has cancelled all of his appointments and public activities as a result of having to be treated for an illness over the next several months. We expect a full recovery, but as you can imagine, his work load has been greatly reduced.

We wish you the best of luck with the symposium. Please note that I am still investigating the possibilities for a rover-operated "tele-sculpture" on Mars and possibly an Earth test of the concept.

As soon as we could work something out, I will let you know. With every good wish,

Sincerely,


Louis Friedman

28/3



12.1.95

Mr. Louis Friedman
Executive Director
The Planetary Society
65 north catalina avenue
Pasadena, CA 91106, U.S.A.

Dear Louis,

Desert Tele-Sculpture on Mars

Following your fax of October 17 - what is the necessary coordination to execute and film, a robotic Earth-Test by wheeler candidat of a Mars-Rover by NASA in U.S.A. deseret - of setting-up a desert stone line of 50 meters in west-east direction on Summer 1995?

מכון לניסוחים ציבוריים
INSTITUTE FOR PUBLIC PRESENCE
معهد للتشاور الجماهيري

With best wishes,

Ezra Orion Collection
Public Art Archive

Ezra Orion
Desert Sculptor

CC: Prof. Yuval Ne'eman
Prof. Akiva Bar-nun
Prof. David Abir
Prof. Hagai Netzer
Dr. Marcel Klaijn
Yigal Zalmona
Dalia Ganot-Richmond

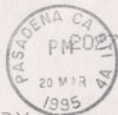
FAX: () 818-793-5528



THE PLANETARY SOCIETY

65 North Catalina Avenue, Pasadena, CA 91106 -2301

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי



Ezra Orion
Sdeh Boker College in the
Negev,
84990 ISRAEL

مركز للفنون العامة
مركز للفنون العامة



Ezra Orion Collection
Public Art Archive

לאבי הר"בן
מוכ"ל
הסוכנות הישראלית לניצול החלל
תל-אביב

פיסול מדברי על המאדים

- בעקבות מפגשנו אצלך אתמול -

א.

הכוונה היא שה-MARS-ROVER לאחר ששוגר בשלום - סביב שנת 2000 - נחת בשלום
לאחר כ-10 חודשים על-פני המאדים - והשלים את ה-Sample Collection Mission -
כולל העמקת דוגמאות המסלע שאסף אל תוך חללית האם - יתגנה ויבצע אל שפת-
קצק Vales Marineris קו ישר של אבנים מקומיות, בזית של 90 מעלות אליה.

אוסף עזרא אוריון
שהביצוע הזה יסודך על-ידו לכאן בזמן אמת, יתועד וישוחרר גלובלית.
ארכיון אמנות במרחב הציבורי

שביצוע הפיסול המדברי הזה ישולב בכמה חללים פנויים בתכנית התרגולים של המועדונים
לשליחות הזאת, וביחוד לזו של הרובוט שייבחר על-ידי NASA סופית; ושביצועים אלה
יסרטו, ישוכפלו ויופצו כחלק אינטגרלי של הפרויקט שלנו.

שאוכל להיות נוכח בשלב הגמר של התהליך הזה, וכן בשעת שיגור הימארסרובר' מקף קנדי -
כחלק אינטגרלי של הפרויקט.

מכון לרשימות פומביות
INSTITUTE FOR PUBLIC PRESENCE
مركز للتسجيل العام

Ezra Orion Collection

ב.

הכוונה היא לשגר ב-19-20 לאפריל 2000 את סוף התהליך. מחצי הכדור הצפוני,
בתיאום עם מיקב מערכות החלל והאסטרונומיה האפשריות בחצי הכדור הצפוני.

ג.

צעד מהותי קדימה תהיה החלטת אימוץ הסוכנות הישראלית לניצול החלל את שני
הפרוייקטים החלוציים האלה - ציבורית, לא תקציבית.

ישר כוח -

נספחים (משוכתבים):

עזרא אוריון

-
-
-
-

לאבי הר-אבן
סוכנות החלל הישראלית

Mr. _____

Desert Sculpture on MARS

Following the meeting of the Desert Sculptor Ezra Orion with Prof. Torrence Johnson, Senior-Research-Scientist, J.P.L. Pasadena, on August 2, 1982 there -
and Jeffrey Briggs, Director of NASA Solar System Exploration Program, on January 19, 1988, and June 6, 1990, at NASA Headquarters, Washington DC -

We propose:

- ☐ To incorporate a sculpture local-stones line to the edge-cliff of Vales Marineris - on MARS by the near-future Mars-Rover;
- ☐ To incorporate it in the robotic radio-training of the Mars-Rover Candidates, in your desert-training-sites - filmed and communicated.

Yours,

.....
.....

C.C.

↑

↑

~~הנהגה נכונה
לחשוב
החלטות נכונות
החלטות נכונות
החלטות נכונות~~

6/6/95

$\pi_k - \gamma, \pi_k$

התל. ב. לאתונה אז מרמ קליין

אוסף עזרא אוריין
ארכיון אמנות במרחב הציבורי

42.



7th - 8/6

Ezra Orion Collection
Public Art Archive

מזכר

(להתכתבות פנימית במשרדי הממשלה)

אל:

התאריך

15/6/95

תיק מס'

מאת:

הנדון:

אק"י הר-אק

סימון

W

אוסף עזרא אוריון

ארכיון אמנות במרחב הציבורי



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סל"ב

6422298

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הטאונ: אקדמיה, סניף 15/6-ד

לאבי הר-אבן
מנכ"ל
הסוכנות הישראלית לניצול החלל
תל-אביב

פיסול מדברי על המאדים

- בעקבות מפגשנו אצלך אתמול -

א.

הכוונה היא שה-MARS-ROVER לאחר ששוגר בשלום - סביב שנת 2000 - נחת בשלום
לאחר כ-10 חודשים על-פני המאדים - והשלים את ה-Sample Collection Mission -
כולל העמסת דוגמאות המסלע שאסף אל תוך חללית האם - יתפנה ויבצע אל שפת-
קצק Vales Marineris קו ישר של אבנים מקומיות, בזוית של 90 מעלות אליה.

אוסף עזרא אוריון

שהביצוע הזה יושר על-ידן לכאן בזמן אמת, יתועד ויושקף צלופלוד

שיצוע הפיסול המדברי הזה ישוב בכמה חללים פנויים בתכנית התרגולים של המועדים
לשליחות הזאת, ובחוד לזו של הרובוט שייקבר על-ידי NASA סופית; ושיצועים אלה
יסרטו, ישופלו ויופצו בחלק אינטגרלי של הפרוייקט שלנו.

שאוכל להיות נוכח בשלב הנמר של התהליך הזה, וכן בשעת שיגור המארסרובר מקף קנדי -
כחלק אינטגרלי של הפרוייקט.

Ezra Orion Collection
Public Art Archive

ב.

הכוונה היא לשגר ב-19-20 לאפריל 2000 את סופר-קתדרלה I | מחצי הכדור הצפוני,
בתיאום עם מירב מערכות החלל והאסטרופיסיקה האפשריות בחצי הכדור הצפוני.

ג.

צעד מהותי קדימה תהיה החלטת אימוץ הסוכנות הישראלית לניצול החלל את שני
הפרוייקטים החלוציים האלה - ציבורית, לא תקציבית.

יישר כוח -

נספחים (משותקים):

עזרא אוריון

03-6422297

אל: 658/16

מאת: 22/1

טלפון: 05/6422297

כתובת: "סל"

תאריך: 3/1/94

17185
61171

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

אוסף עזרא אוריון

ארכיון אמנות במרחב הציבורי

33 מרחב ק"י

43/1 - 7

33

מקבל ההודעה: 33



מכון לרשומות ציבוריות
INSTITUTE FOR PUBLIC PRESENCE
מנהל לרשומות הציבוריות

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25/1 יא לתת - א.א.

27/4 הוטאר סתק ודמו:

"האם אפשר לומר דין חסד לאד. פרויקט במסדוקר"

6/11 הוטאר מסתק הוטאר (6/11: א.א. סלחנו)

3/5/94 - מסתק 4/8 מסתק

למרסל קליין

רכז סוכנות החלל הישראלית

תל-אביב

שיתוף פעולה

...לבנת הודיעה לי זה-עתה שפגישתנו נדחית ...

אוסף עזרא אוריון

מציע:

□ למצוא דרך להשתלב בתרגול אחד המועדפים להקבץ בו מאוסף עזרא אוריון במדבר בארצות-הברית. לשלב בתכנית התרגולים שלו- בשטח מכוסה אבנים, תרגול של הנחת 50 אבנים בקו ישר, באזימוט מול שקיעת השמש - על-פי סדרת פקודות זריי, ולהסריט את הביצוע.

□ שאציג במשך 15 דקות סרטון וידאו של הסבר מילולי של פרוייקט הפיסול הביננאלאקטי בוועידת 14-9 לאוקטובר

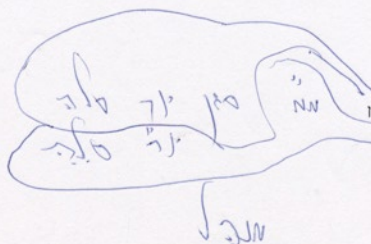
□ לבדוק האם גיון לומברג ישתתף בה-אם כן, שידוח על פרוייקט ה-CD-ROM שלו למארס -

Ezra Orion Collection

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ישר כוח -

עזרא אוריון



העתקים: פרופ' עקיבא בר-נון

פרופ' דוד אביר

פרופ' חני נצר

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי
6.10.95

לשמעון פרס
שר החוץ
ירושלים

תודה עבור הכל
אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

אם תוכל לתאם עם שולמית אלזני יצירת קשר עם נאסיא - לתרגול וביצוע
של פיסול רובוט על המאדים על-ידי MARS-ROVER - בשנים הקרובות -
לקראת ביצוע בשנת 2000

מכון לזכויות יוצרים
משרד המשפטים
מחלקת ההגנה המשפטית

Ezra Orion Collection
Public Art Archive

עזרא אוריון

Midrashat Sde-Boker
International Center for Desert Sculpture
October 26, 1995
ISRAEL

Mr. Al Gore
Vice-President
White House
Washington D.C.
U.S.A.

Sir,

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי
SCULPTURE in the SOLAR SYSTEM
INTERGALACTIC SCULPTURE

It happened there - -

Sending you some documentation
אוסף עזרא אוריון
INSTITUTE FOR PUBLIC PRESERVE
معهد للحفاظ على الجمهوري

51 from the present personalities there signed their names as supporters of this
Ezra Orion Collection
Public Art Archive
international creative vector toward the year 2000

Can you add your name to reinforce its momentum - -

Yours,

Ezra Orion
Desert Sculptor

קיבוץ רמת יוחנן 30035
טלפון: 04-459222



תאריך: 17.7

ל: עזרא אורן

שם: "אמנות" אוסף עזרא אורן
ארכיון אמנות במרחב הציבורי

אמנות



נושא: אמנות

מקום: תל אביב

Ezra Orion Collection
Public Art Archive

מקום: תל אביב

טל: 04-459589 (8)

שם: אמנות וקהל

הקדמות



קבוץ רמת יוחנן
מיקוד 30035

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי




ארכיון



מכון לטכנות דיגיטלית
מרכז המחקר והפיתוח
מכון לטכנות דיגיטלית
מרכז המחקר והפיתוח

Ezra Orion Collection
Public Art Archive




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אוסף עזרא אוריון

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ארכיון אמנות במרכז העברי

Found 28213 documents matching at least one search term.

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Found 905 matching words (number of documents): mars (10333), marshall (11010), rover (2321),...

1) Hot Topic: Marsokhod - Russian Mars Rover Tests [1.0000, 2 of 2 terms, adj 1.0]

Abstract: WWW Hot Topic: **Marsokhod - Russian Mars Rover Tests** From February 13-18, 1995, NASA will be testing the Russian **Marsokhod Mars Rover** in the Hawaii Volcanoes National Park. The testing will be conducted by the NASA Ames Research Center's Intelligent Mechanisms Group, the same people who brought you Dante, the research robot that explored the Mt. Erebus volcano in Antarctica, and Dante II, the research robot that explored Mt. Spurr volcano in Alaska. Testing the sophisticated Russian hardware of **Marsokhod** with NASA electronics is advancing the state of the art by combining the strengths of each. *Information sources *

<http://www.amdahl.com/internet/events/marsokhod.html> (6k)

2) MARS.ROVER directory [0.9183, 2 of 2 terms, adj 1.0]

Abstract: MARS.ROVER Up to SPACE * INDEX * Index * index * mr10.04.90 * mr10.26
<ftp://explorer.arc.nasa.gov/pub/SPACE/MARS.ROVER> (0k)

3) MARS.ROVER [0.8586, 2 of 2 terms, adj 1.0]

Abstract: MARS.ROVER
<ftp://explorer.arc.nasa.gov/MARS.ROVER> (0k)

20/12/95

המחלקה
 קטן
 04-459589 :קריג

23/12 16:00

מדרשת שדה-בוקר
המרכז הבינלאומי לפיסול מדברי
20.12.95

לשמעון פרס
ראש הממשלה
קרית הממשלה
ירושלים

פיסול מדברי על-פני המאדים

אוסף עזרא אוריון

בתום מפגשך בשבוע שעבר, הגעתי אלייך, והיווהה התקשורת על קשר של שיתוף פעולה

ישיר עם NASA.

האם ניתן לשלוח את פרויקט הפיסול הרובוטי של MARS-ROVER על שפת

Vales Marineris על מאדים - בהנחייה שלי.

האם ניתן להפגש במשך דקה - אתה, אל גור, כשיבקר כאן בעתיד הקרוב, ואני -

כדי לגייס אותו לקידום הפיסול המדברי הזה

Ezra Oriani Collection
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יישר כוח -

עזרא אוריון

5 x

מדרשת שדה-בוקר
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20.12.95

לשמעון פרס
ראש הממשלה
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אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

בתום מפגש, בשבוע שעבר עם הנשיא קלינטון, דיווחה התקשורת על קשר של שיתוף פעולה
ישר עם NASA.

האם ניתן לשלב בו את פרוייקט הפיסול הרובוטי של MARS-ROVER -
על שפת Vales Marineris - בהנחייה שלי

האם ניתן להפגש במשך דקה אחת, או שני, כשנפגש כאן בעתיד הקרוב, ואני -
כדי לגייס אותו לקידום הפיסול והתשתית הזה

ישר כוח -

עזרא אוריון

ארכיון המלל הישראלי
4. ינואר 1996

לואיז
א.א.י.

ז' ינואר
מנהל
N.A.S.A.
ווינסטון

Mars Rover

אסל-פיטל
אוסף עזרא אוריון
ארכיון אמנותי במוזיאון הצבאי

Proposals
הארכיון



הכנס:

לילד זמנית אדומה
סאם משה קרא

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אקט של פסול משה. לקוח - קו. אקט או חזון
אנ שטר הולם מיינרים - מק כפי איסור
הפנימות היוצאת שלו

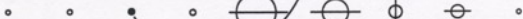
המגשר זמני:
לילד האות קטר של גאון ראש הסטל המשה.
דגא איוון - טרדיון המלבי רפה הא שלו -
דאואלט נ'990

קמרה

א.י. הדן אדן
מנהל

הלקים:
-
-

THE PLANETARY SOCIETY



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Atmospheric Physics,
Russian Academy of Sciences

Dear Contributor to Visions of Mars:

The Planetary Society is delighted to present you with this replica of the CD-ROM, destined for Mars, in appreciation for your assistance on this project. Thank you again for your help.

At the present time, the Mars 96 mission is on schedule, and we expect that scheduled launch in November 1996 will occur as planned. The spacecraft will arrive in Mars orbit in September 1997, with a probably landing in October of the two lander bearing copies of the CD-ROM.

This production is a unique, cooperative effort of government -- NGO -- private industry; science and literature; and the American and Russian space programs. We hope you will enjoy it. In addition to The Planetary Society, we acknowledge the involvement of:

- Space Research Institute, Russian Academy of Sciences
- NPO Lavochkin (Babakin Center)
- Jet Propulsion Laboratory
- Time Warner Interactive
- Virtual Reality Laboratories, Inc.
- Digipress SA

Additional copies of this disk may be purchased through The Planetary Society at the special price of \$30 until January 31, 1996. As you know, all The Planetary Society's royalties from this project go directly back into our projects supporting the continued exploration of Mars.

With best wishes,

Louis Friedman
Executive Director
The Planetary Society

Jon Lomberg
Project Director
Visions of Mars

THEODORE M. HESBURGH
President Emeritus,
University of Notre Dame

SHIRLEY M. HUPSTEDLER
educator and jurist

GARRY E. HUNT
space scientist,
United Kingdom

SERGEI KAPITSA
Institute for Physical
Problems, Russian
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former US Senator,
New Mexico, and
Apollo 17 astronaut

S. ROSS TAYLOR
Professional Fellow,
Australian National
University, Canberra

JAMES VAN ALLEN
Professor of Physics,
University of Iowa

(alliances for identification only)

פיסול מדברי על-פני המאדים

לחצנו יד לאחרונה ב-2 לאוקטובר בבנין האומות המאוחדות וליד קבר בן-גוריון, כאן,
ב-29 לנובמבר -

אתמול קבלתי אישית, מה'חברה הפלנקטית', פְּסִידִינָה, קליפורניה, את הקסוקה
VISIONS of MARS אשר אמורה לנסוק בטייל הרוסי קרסוחוד בנובמבר הקרוב -
ולנחות שם באוקטובר 97- כמקור של האנושות בסוף האלף הזה לאוכלוסיות
עתידיות של הכוכב הזה. **אוסף עזרא אוריון**
ארכיון אמנות במרחב הציבורי
מוסר לך אותה

אם תוכל במהלך תבוא שלך בארה"ב לתאם שילוב יחד-איתי של פיסול מדברי
בתכנית העבודה של ה-MARS-ROVER שאמור לנחות שם סביב שנת 2000 -
כתרומה של פיסול אנושי, לקונו, לאותן אוכלוסיות-יעד.

מכון לזיכרון ציבורית
INSTITUTE FOR PUBLIC PRESENCE
مركز الذاكرة العامة

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Public Art Archive
ששף כוח -

עזרא אוריון

* את לואיס פרידמן (יהודי) פגשתי באוקטובר 1994 בוועידת מדעני החלל שהתקיימה
בבנייני האומה (בה המחשתי ב-10 דקות את מקור הפיסול הזה);
את ג'ון לומברג (יהודי) פגשתי כאן, במדרשה, לפני כמה שנים - באותו נושא.

העתיקים: אלחנן ישי

אבי גיל

יוסי אליהוא

יעקב עיני

Midrashat Sde-Boker
International Center for Desert Sculpture
February, 12, 1996

Dear Louis Friedman,
Dear Jon Lomborg,

Mars CD-ROM

Thanks a lot for the copy of it - -

- - - - - אוסף עזרא אנריון - - - - -
ארכיון אמנות במרחב הציבורי
I gave it last week to the Prime Minister Shimon Peres, who is publically and
operationally encourages the Sculpture-in-the-Solar-System, and beyond it -
the Intergalactic-Sculpture (see the comunique of the 2nd October event in
the U.N., N.Y.) -

Following our warm meeting in the International Astronautics Congress here, in Jerusalem,
mid-October 1994 -

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Public Art Archive
Can the Planetary Society adopt my proposal of Astro-Desert-Sculpture-on-Mars by the
near-future Mars-Rover - to NASA's Marsian Program - For the launch around 2000
(see simulation in the booklet) - ? -

Can you invite me as a Desert-Astro-Sculptor for a month, to develop together the active
programming of the Rover at NASA's training desert sites? - -

With best wishes,

Ezra Orion
Desert Sculptor

3/31

(תתן) לא-קטן

לא-קטן
אמנות
אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

סנד
סוס

IP

תל תרבות ויזמות
INSTITUTE FOR PUBLIC PRESENCE
מרכז המחקר והמחקר



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Public Art Archive

אמנות
אסדל

סיונים קולטק
סנד

לפן
← ימאר לו

14/4

מכתב מס. 14.

אני לא יכול לתפס את

בן אולפן

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

אני
אני

אני
אני



אני
אני

אני
אני

אני
אני

אני
אני

אני
אני

25/4

2 פקט אני - יפה



12 February, 1996

Dr. Daniel S. Goldin
Administrator
National Aeronautics and
Space Administration
Washington, DC 20546-0001

Dear Dr. Goldin,

אוסף עזרא אוריון

ארכיון אמנות במרחב הציבורי
I do not know how much you are familiar with the "Artistic Space Venture"
Project with NASA that started a few years ago.

On January 1988, an Israeli well known sculptor, Mr. Ezra Orion, met with Dr. Geoffrey Briggs, the Director of Solar Systems Exploration at NASA Headquarters in Washington DC. The purpose of the meeting was to consider the possibility to use the Mars Rover scheduled to land on Mars, after completing its mission, to construct a stone line that will be the first man-made sculpture in space outside the planet Earth.

Ezra Orion Collection

I will appreciate it very much if you could pass this letter with your recommendations to the relevant People who can help Mr. Onof to fulfill his dreams.

Enclosed are several letters regarding this project that can be of interest

Sincerely

Aby Hare-Even
General Director

03-6422298, 03-6422297-8, 17185 ת"א 61171, טל. תד. 17185, תל-אביב, מנצח חיים לבנון N26, 26a Chaim Levanon St., Tel-Aviv, P.O.B. 17185, Tel-Aviv 61171, Tel: 972-3-6422297-8, Fax: 972-3-6422298

FEB. -13: 96 (TUE) 13:19 ISRAEL SPACE AGENCY

100



משרד המדע והאמנויות
הסוכנות הישראלית לנצול החלל
THE MINISTRY OF SCIENCE AND THE ARTS
ISRAEL SPACE AGENCY

12 February, 1996
Ref.nasa107

Dr. Daniel S. Goldin
Administrator
National Aeronautics and
Space Administration
Washington, DC 20546-0001

אוסף עזרא אוריון

Dear Dr. Goldin, ארכיון אמנות במרחב הציבורי

I do not know how much you are familiar with the "Artistic Space Venture" Project with NASA that started a few years ago.

On January 1988, an Israeli well known sculptor, Mr. Ezra Orion, met with Dr. Geoffrey Briggs, the Director of Solar Systems Exploration at NASA Headquarters in Washington DC. The purpose of the meeting was to consider the possibility to use the MarsRover scheduled to land on Mars, after completing its mission, to construct a stone line that will be the first man-made sculpture in space outside the planet Earth.

Public Art Archive

I will appreciate it very much if you could pass this letter with your recommendations to the relevant People who can help Mr. Orion to fulfill his dreams.

Enclosed are several letters regarding this project that can be of interest.

Sincerely

Ahy Hare-Even
General Director

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי
27.2.96

לדר אבישי ברוורמן
נשיא
אוניברסיטת בן-גוריון
באר-שבע

אימוץ הפיסול הבין-לאומי

- עליזי אוניברסיטת בן-גוריון -

אוסף עזרא אוריון

ארכיון אמנות במרחב הציבורי

שולח לך צילום מכתבו של מנכ"ל סוכנות החלל הישראלית - אל מנכ"ל NASA -

IP



- זהו פיסול אסתטי -

אני מרגיש בחור, כפי שכתב לך בשעתו פרופ' פיליפ ליינר, שאימוץ שלו לא יתרום רק לו

אלא גם לכם -

מכון לזיכרון ציבורי
INSTITUTE FOR PUBLIC PRESENCE
מכון להנצחה הציבורית

Ezra Orion Collection
ישר כוח -
Public Art Archive

עזרא אוריון

הוא : ספר לאנשים
חארהק
סגור חשכה



ראש הממשלה

ירושלים, י"ב באדר התשנ"ו

3 במרץ 1996

סימוכין: צ-043-שוטף-6

מר עזרא אוריון

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי
לעזרא היקר,

קראתי העתק המכתב ל- NASA ואני מלא גאוה.

מכון לזכויות כימיות
אסטרטגיה טכנית ופיקוד על המידע
מסגרת לתכנון והפעלה



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Public Art Archive

ישר כוח.

בברכה,
שמעון פרס
ראש הממשלה ושר הבטחון

ראש הממשלה

ירושלים, י"ב באדר התשנ"ו
3 במרץ 1996
סימוכין: צ-043-שוטף-6

מר עזרא אוריון אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי



מכון לזיכרון דיגיטלי
INSTITUTE FOR DIGITAL PRESERVATION
مركز للذاكرة الرقمية



לעזרא חיקר

קראתי חתכת ומכתב ל-NASA ואני מלא גאווה.

ישר כוח.

Ezra Orion Collection
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ברכה
שמעון פרס
ראש הממשלה ושר הבטחון

ראש הממשלה

ירושלים, י"ב באדר התשנ"ו
3 במרץ 1996
סימוכין: צ-043-שוטף-6

מר עזרא אוריון
אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי



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ג. ב. ר. ח. ה.
שמעון פרס
ראש הממשלה ושר הבטחון

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי
15.3.96

למסדן -

לראש הממשלה
שמעון פרס

4/4/96 ↑

למסדן מרדכי זימין

פיסול אנושי במערכת השמש

קיבלתי את המכתב - המחזק - מ"נ למרץ - המגביר את הדבקות במקרה - -

לאחר המפגש הקזק בשאקם אל-שיח, שלשום - ביקורו המחזק של קלינטון כאן, אתמול -
- וגשר אישי שלך, אתה ארכיון אמנות במרחב הציבורי

האם הוא יוכל להנחות את דן גולדין לשלב את הפיסול המדברי שלי על-פני המאדים בהקנות
של NASA להנחתת ה-MARS-ROVER שם סביב שנת 2000 - לביצועו במדבר ההוא - -

מכון לזיכרון
עזרא אוריון
מרכז הבינלאומי לפיסול מדברי
מסדן למסדן

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עזרא אוריון

□ מצרף את שני המכתבים וחוברת עבור הנשיא

לקראת נסיון הזאה לארה"ב
למסדן -

Midrashat Sde-Boker
International Center for Desert Sculpture
May 6, 1996

Mr. Peter B. Ulrich
Director
Advanced Technology and Mission Studies Division
Office of Space Science
N.A.S.A. Headquarters
Washington, DC, U.S.A.

Dear Mr. Ulrich,

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי
Desrt Sculpture on Mars
- by Mars-Rover -

Last week I got from Aby Har-Even's office a copy of your letter of March 5, 1996.
I fully appreciate the start of our dialogue.

The first step toward it was made on August 2, 1982 - when I met Torrence V. Johnson,
Senior Research Scientist, Jet Propulsion Laboratory, Pasadena, CA -
see p. 102 in my 'Sculpture in the Solar System', 1985 (enclosed).

The second and third steps were two positive talks with Dr. Jeffry Briggs,
N.A.S.A.'s Director of Solar System Exploration Program, on January 19, 1988, and
June 6, 1990, in yours, see paper enclosed.

All along its history, Sculpture was developed dialogically with technology -
so "the capability of the first surface rover vehicle" is an integral ingredient of this
dialogue; and his improved capability for the sample return mission in the year
2005, could be the second stage of it - and onwards - -

The Desert Stone Sculpture that I suggest, is a straight small local stones or gravel
line, geometrically running to the cliff-edge of Valles Marineris - -

Let us start our dialogue -

- ☐ Could we meet at yours around September 1 - to develop a common working-definitions - -
- ☐ Could we coordinate a first tour to the Mars-Rover desert training site - to enrich it and onward - -

Sincerely yours,

Ezra Orion

Desert Sculptor

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

Copies: Mr. Dan Goldin, Director of N.A.S.A.

Mr. Aby Har-Even, Director, Israel Space Agency

Enclosed: 'Sculpture in the Solar System' / E. Orion, 1985

Protocol of the meeting with Dr. Jeffrey Briggs, 1988

'Intergalactic Sculpture' / E. Orion, 1994

IPB

מכון לזיכרון
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✓ -
✓ -
ליאן + 9/5
ספרס +
אמ' + ~
לילס + 10/5

לשמעון פרס
ראש הממשלה

פיסול מדברי במדבר המאדים

האם החלפת כמה משפטים עם ארצות הברית וזו אולי תהיה NASA
ארכיון אמנות במרחב הציבורי



מכון לרשימות כיבושיות
מכון לרשימות כיבושיות
מכון לרשימות כיבושיות



על תאום אתי אל תיעד הזה

מצרף: מכתב שהגיע מאחד מאנשי -

Ezra Orion Collection
Public Art Archive

עזרא אוריון
פסל מדברי

העתק: יוסי אליהוא, מנכ"ל

לחמי פרס

May 12th, 1986

Dr. James C. Fletcher
National Aeronautic & Space Administration
Washington D.C.
U.S.A.

Project: Israel Museum - NASA. Sculpture on planet Mars

1. We propose to establish an Israeli-American team to enhance pioneering idea in contemporary art; a robot sculpture by future Mars-Rover.
2. In the summer of 1976 two space crafts landed on the Marsian surface, photographed it, sampled it, and removed some stones with their scraper arm.
3. NASA is presently in the process of developing prototypes of robot Mars-Rovers that they propose to land on Mars around 1999, and which will carry long surface geographic and geologic surveys.
4. We propose to combine with these programs the execution of stone lines toward the edges of the Vales Marineris cliffs. The stone line works of the sculptor Ezra Orion on the Zin plateau near Sde-Boker, will serve as models.
5. The Israeli team will include three members: Yigal Zalmona, Curator of Israeli Art, Israel Museum; Amnon Barzel, Director of the Prato Museum for Contemporary Art, Florence, Italy; and Ezra Orion, Desert Sculptor.
6. It is proposed that the American team includes members of the Mars personnel in NASA headquarters (see letter attached).
7. After the conclusion of talks in Washington this summer, establishing the project, a four year working schedule will be planned. The teams will thereafter meet according to need, to elaborate the detailed geographic and technologic programs. Following this, a sequence of robotic sculptural simulations will be executed by Mars-Rover prototypes in the western deserts of United States.
8. Progress reports will be published yearly and circulated for the art public.
9. For public, artistic and financial support, it is suggested that a public committee will be formulated (preliminary list enclosed).

Yigal Zalmona

Ezra Orion

Amnon Barzel

Background

1. Letter from N. Novik, Prime Minister Bureau, Jerusalem, to Dr. J. Fletcher, NASA's Director - including suggested sculptural project on Mars, 1986.
2. Answer to N. Novik from R. Barnes, NASA, 1986.
3. Summary of meeting with Dr. J. Briggs, NASA, by the Israeli sculptor E. Orion, 1988.
4. A following information letter from Dr. J. Briggs to E. Orion, 1989.
5. Letter of E. Orion to Dr. J. Briggs toward meeting in Washington, 1990.
6. Summary of their meeting, 1990.
7. FAX from N. Armstrong U.S. to L. Arnowitz, Israel Space Agency, 1992.



משרד המדע והאמנויות
הסוכנות הישראלית לנצול החלל
THE MINISTRY OF SCIENCE AND THE ARTS
ISRAEL SPACE AGENCY

טל: TEL: 972-3-6422297

תאריך: Date: 23/5/96

פקס: FAX: 972-3-6422298

אל: To: 11.1/16 א. 36

פקס: FAX No.: 07 - 558352

מאת: From: רחל/של"ח

מס' עמודים: No. of pages 2

(כולל עמוד זה) אוסף עזרא אוריון (including cover)

נושא/סימוכין: Subject/reference: ארכיון אמנות במרחב הציבורי

IP
ARTLAB
מרכז תוכניות פובליקות
INSTITUTE FOR PUBLIC PRESENCE
מרכז להפצת יצירות אמנות

Peter Ulrich
Ezra Orion Collection
Public Art Archive

1/6 6

1/1

Midrashat Sde-Boker
International Center for Desert Sculpture
July 4, 1996

Mr. Peter Ulrich
Director
Advanced Technology and Mission Studies Division
Office of Space Science
NASA Headquarters
Washington D.C. 10546-0001

Dear Sir,

אוסף עזרא אוריון
Desert Tele-Sculpture on Mars

- A slightly delay -

Following the helpfull letter of Aby Har-Even of May 27, and the added background material -

מכון לזיכרון ציבורי
INSTITUTE FOR PUBLIC PRESENCE
معهد للذخور الجماهيري

Can we meet at your office sometime around the 1st of September, to establish a common-ground; and coordinate a visit in the desert Training-Site of the Mars-Rover in short time after that -

Many thanks indeed -

Ezra Orion
Desert Sculptor

CC: Aby Har-Even - Israel Space Agency

Midrashat Sde-Boker
International Center for Desert Sculpture
June 14, 1996

Mr. Peter Ulrich
Director
Advanced Technology and Mission Studies Division
Office of Space Science
NASA Headquarters
Washington D.C. 10546-0001

Dear Sir,

Desert Tele-Sculpture on Mars

ארכיון אמנות במרחב הציבורי

Following the helpfull letter of Aby Har-Even, of May 27, and the added background material -

Can we meet at your office sometime between August 20-22, to establish a common-ground; and coordinate a visit in the desert Training-Site of the Mars-Rover in short time after that -

Ezra Orion Collection
Public Art Archive

Many thanks indeed -

Ezra Orion
Desert Sculptor

CC: Aby Har-Even - Israel Space Agency

7/30
b x

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי
22.7.96

לאבי הר-אבן
מנכ"ל
ס.ל.ה.
תל-אביב

פגישה עם פיטר אולריך
- סגירה סופית -
ארכיון אמנות במרחב הציבורי

תודה על הסיוע עד כאן!
מבקשכם להזיז את הפגישה לתחום התאריכים: 29/8 - 3/9, כולל שעה ומקום מדויק.

מכון לזיכרון
מכון לזיכרון
מכון לזיכרון



Ezra Orion Collection
Public Art Archive

עזרא אוריון

מס פקס: 03-6422298

נא להקדים
והקדים

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי
24.7.96

לאפרת מוסק-כהן
הנספחות המדעית
שגרירות ישראל
ושינגטון, ארה"ב

פקס: 001-202-3645-607

פגישה עם פיטר אולריך

אוסף עזרא אוריון

כפי שכתבתי לפיטר אולריך ב-4 ליולי אני מבקש לדחות את תאריך הפגישה -
לתאריך שנוח לו בין ה-28/8 ל-9/9 - במקום מס' חדר בשעה

אם תוכלי לתאם את זה

ולתת לי בהקדם -
מס' הדפוס והמסמך



Ezra Orion Collection
תודה ולהתראות אצלכם -
Public Art Archive

עזרא אוריון

מס' פקס שלי: 972-7558352

2

Midrashat Sde-Boker
International Center for Desert Sculpture
July 4, 1996

Mr. Peter Ulrich
Director
Advanced Technology and Mission Studies Division
Office of Space Science
NASA Headquarters
Washington D.C. 10546-0001

Dear Sir,

Desert Tele-Sculpture on Mars

ארכיון אפרים אורן הציבורי - A slightly delay

Following the helpful letter of Aby Har-Even of May 27, and the added background material -

Can we meet at your office sometime around the 1st of September, to establish a common-ground; and coordinate a visit in the desert training-site of the Mars-Rover in short time after that -

Many thanks indeed -

Ezra Orion
Desert Sculptor

CC: Aby Har-Even - Israel Space Agency

001-202 - 3645 - 607 : 070

Peter Ulrich, Ph.D.
Lisa R. Shaffer, Ph.D.
Stephen E. Ballard

Israel Space Agency
Center of International Desert Sculpture
August 1997

Handwritten notes: "K.G.B" and "רפ" (Raf)

Sculpture in the Solar System

Desert Sculpture Act on Mars

I received by E-mail Stephen Ballard July 23 message to Mrs. Rachel Moss:

"Not foresee any possibility for this activity" - -

- The dialogue with NASA, concerning 'Sculpture on Mars', started in a personal meeting with Torrence V. Johnson, Senior Research Scientist, J.P.L., Pasadena - on August 2, 1982. His letter confirms "the result of the stimulating conversation, we had today concerning the possibility of creating simple sculptures, or art forms, on other planets by means of automated spacecraft".
 - On January 19, 1988, I met Dr. Jeffrey Briggs in your office, and the summing-up of the dialogue was his words: "I am sympathetic to your idea".
 - On June 6, 1990, I met again Dr. Jeffrey Briggs at yours. Present in this positive doalogue was Stephen Ballard.
 - On August 30, 1996, we met at yours. Present in this dialogue was also Mr. Baruch Binna from the Israeli Embassy. The summing-up of the dialogue was that my visit in a Training-Base of the future candidates of the Mars-Rover could be coordinated in the near future.
- In that dialogue you, Peter, summed-up the limitations of the first Mars-Rover in shaping a local stone-line, and suggested a line-of-short-furrows.
- - - - -

I do regard the pioneering complexity of the sample-collection-missions of the Marsian desert; and suggest - as long-distance desert-sculpture - to continue our long-distance pioneering dialogue, toward the end of the second millenium and the first decades of the 21st century.

Handwritten notes: "4 X" and "X →"

hird - to compose, to unify complimentary , a human desert geo-sculpture within your
geo-sientific missions.

אבי, איך ניתן לקבל אומדן-תקציבי של שילוב קזה - כדי לבחון אפשרויות של גיוס תורמים,
תקשורת ועוד?

All The Best -

אוסף עזרא אוריון Ezra Orion
International Center for Desert Sculpture

CC: Aby-Har-Even

Prof. Akiva Bar-Nun

Prof. Hagay Netzer

Prof. Yoram Shapira

Mr. Baruch Binna

Mr. Igal Zalmona



מכון לזיכרון
INSTITUTE FOR PUBLIC PRESENCE
מכון להגשמה וזיכרון



Ezra Orion Collection
Public Art Archive

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי
6.8.96

לאפרת מוסק-כהן
הנספחות המדעית
שגרירות ישראל
ושינגטון, ארה"ב

פקס: 001-202-364-5670

סיור באתר האימונים של ה-Mars-Rover

אני מציע שתצטרפי אלי במפגש עם פיסול אורח 10.00, 30/8, אצלו;
ארכיון אמנות במרחב הציבורי
מציע לרשום ולהוציא פרוטוקול שלו באנגלית;

ומקוה שישכים שאקיים סיור-הכרות באתר האימונים של המארס-רובר -
במדבר הדרום-מערבי של ארץ-ישראל.

כדי להסדיר טיסה זולה לשם, אני צריך לציין לסוכן הנסיעות את שם המקום.

INSTITUTE FOR PUBLIC PRESERVE
مركز للحفاظ على الممتلكات

בס..לה. כאן לא יודעים... Ezra Orion Collection

Public Art Archive

אם תוכלי לברר אצלכם, אולי במשרד של אורח, את שמו, ולשלוח אלי בפקס.



הרבה תודה ולהתראות -

עזרא אורח

מס' פקס שלי: 558352-7 (972)

מדרגה ספה קורר
מרכז דין-לאומי תלמידי מפידי

פקס : 558352-7

11/8/96

הראש ד"ר יעלית אהרונות

המזכיר סגור 8/8 את הפגשה ואג

הנהגת המיכנה של המוסד הלאומי
ארכיון אמנות במדחב הציבורי

הוציא גלפיה

קראת הספירה של רחמיאל אלדד - 30/8

אם טבל - תרבות חינוך לפי הטיול

המחצית - אגף אגף - גוף
Public Art Archive

כמה ימים ← אקדא אולגא, אטכס

ואגן לו חנק רחמיאל הטיול אגו -

א ניר רמתי שלבים

"שכר פוח -

להתראות

15.15 11/8
התקדמה - קדמו את העסק
אפי לא חסרה

לפי נכון למחצית יתר...



משרד המדע והאמנויות
הסוכנות הישראלית לנצול החלל

THE MINISTRY OF SCIENCE AND THE ARTS
ISRAEL SPACE AGENCY

Subject: Desert Sculpture on Mars

Points of discussion between Mr. Peter Ulrich, Director, Advanced Technology and Mission Studies Division, NASA Headquarters, and Mr. Ezra Orion, Desert Sculptor, Midrashat Sde Boker, Negev, Israel.

אוסף עזרא אוריון ארכיון אמנות במרחב הציבורי

- The possibility of making any kind of sculpture on Mars, either by the Mars Rover or by the creation of a desert stone sculpture on Mars.

- To help Mr. Orion establish a communication link with the field director of the training site of the Mars Rover.



מכון לזיכרון עזריאל
INSTITUTE FOR PUBLIC PRESERVATION
مركز للتذكور العام



- The Possibility of making any kind of sculpture on Mars, either by the Mars Rover or by the creation of a desert stone sculpture on Mars.

- To consider the possibility of making any kind of sculpture on Mars, either by the Mars Rover or by the creation of a desert stone line right -angle sculpture on Mars.

Ezra Orion Collection
Public Art Archive



Midrashat Sde-Boker, in the Negev
International Center of Desert Sculpture

Ezra Orion - Desert Sculptor

Midrashat Ben-Gurion, 84990, ISRAEL
Office Tel: 07-565820 Fax: 07-568352

August 30, 1996

Dialogue with Peter Ulrich - N.A.S.A. -

- To consider ways to include in the activities of the MarsRover -
a desert stone sculptor on Mars ;
- To coordinate a guided tour of the sculptor Ezra Orion in the training-site of the present MarsRover and a primary dialogue with the field-director
- To consider a primary training of the MarsRover to lay a local stone line right-angled to the cliff-edge of Vales Marineris .

מדרשת שדה-דוקר


18/8/96

לדני זונשין
קשתות
משרד החוץ
ירושלים

פרק: 02-303303

שלום -

אם תוכלו לשלוח פרקס לאתר רוסק-כהן:
ארכיון אמנות במרחב הציבורי
אתר שלום -

• האם תוכלו להקדיש את המפגש דיוס ה' 

29/8 לשעה 14:00

• האם תוכלו להקדיש את המפגש של פילר אולריך
את נוסח הדקדוק הרשמי לדיקור דאטר
האימונים של ה-Mars-Rover - כפי שנוכל
להגיש אותה כבר דמפגש איתו .

להתראות

• אם תוכלו לאשר

צברא אוריון

פרק: 02-558352 - - -

סקיילת -

• האם תוכלו להצטרף

למפגש איתו -

Midrashat Sde-Boker
International Center for Desert Sculpture
Negev Desert, IDRAEL

September 12, 1996

To:

.....

.....

DESERT SCULPTURE ON MARS

Summing-up of meeting in N.A.S.A. Headquarter
Washington D.C., August 30, 1996:

אוסף עזרא אוריון

Present at the meeting:

ארכיון אמנות במרחב הציבורי

- 1) Dr. Peter B. Ulrich Director, Advanced Technology and Mission Studies Division,
Office of Space Science;
- 2) Mr. Stephen E. Ballard - International Relations Specialist, International Planning
and Programs;
- 3) Mr. Ezra Orion - Desert Sculptor, International Center for Desert Sculpture,
Midrashat Sde-Boker, Negev, ISRAEL.
- 4) Mr. Barukh Binah - Minister - Counsellor - Public and Interreligious Affairs -
Embassy of Israel;
- 5) Mr. Doron Polak - Manager of PROJEFTIVE, Israeli Representative of the International
Artist's Museum.

Ezra Orion:

Reported on former meetings -

- ☐ With Tarence V. Johnson, Senior Research Scientist, Jet Propulsion Laboratory,
Pasadena - on August 2, 1982.
- ☒ With Dr. Jeoffrey Briggs, Director, NASA's Solar System Exploration Program,
NASA Headquarter, Washington - on January 18, 1988; and on June 6, 1990 -
Discussing possibilities to incorporate a Sculptural Act of local stones line to the
cliff-edge of Vales Marineris - by the future Mars-Rover.

4x

Stephen E. Ballard:

Proposes that Ezra Orion will be in touch with the Israeli Space Agency Director, who is expected to come for a visit. In his opinion, one should find out whether Israel is ready and willing to give support to this project and also to take part in the financing.

Doron Polak:

Propose to write a letter to the Minister of Science of Israel, Dr. Benjamin Begin, who is also Geologist by profession. Following the counsel of Barukh Binah, a copy of this summing-up of the meeting, should be sent to the Ministry of Foreign Affairs.

Ezra Orion:

Will coordinate the application with Abi Har-Even, Director of the Israeli Space Agency; and with Uri Bar-Ner - Director of Cultural and Science relations in the Israel Foreign Ministry.



Looking for further COOPERATION -

Ezra Orion Collection
Public Art Archive

Doron Polak

Stephen E. Ballard:

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Looking for further COOPERATION -

Ezra Orion Collection
Public Art Archive
Ezra Orion

Doron Polak

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי
אוקטובר 1996

י.א.ל.

האם אצלנו לא היה משה-משה?

הוא לא היה

פיסול נודדת יבשות
פיסול במערכת השמש
פיסול בין-נאלאקטי
- - 2000 - 1996



אוסף עזרא אוריון

1996 - מפגש ב-NASA לתיאום אקט פיסולי ביעדי ה-Mars-Rover, על המאדים;

- שיקום מוסרט של פסל המדרגות בבקעת אנפורה, היסקלית גל;

1997 - סיור הכנה לביצוע אקט פיסולי מול הארץ;

- ביצוע מוסרט מול הארץ ועליה אל פסנתו, 5,165 מ';

- סיור באתר האימונים של ה-Mars-Rover, במדבר ארה"ב;
מכון לחקר תרבות ערבית
مركز للدراسات العربية
Ezra Orion Collection

- סיור באתר ה-V.L.A., ניו-מקסון, לתיאום השתתפות;

- סיור הכנה בניו-יורק, ושינוע וקליבנד, לביצוע תאומי אנרגיה

- לציון 50 שנות המדינה;

- השתתפות ברב-שיח על פיסול מעבר לשנת 2000 ב-Cooper Union, ניו-יורק;

1998 - מפגש-מעקב מוסרט באתר האימונים של ה-Mars-Rover במדבר ארה"ב;

- הקמת תאומי האנרגיה באוניברסיטת קולומביה, ניו-יורק, והעברתם לשינוע וקליבנד;

- מפגש תאום-מעקב ב-V.L.A.;

- 1999 מפגש-מעקב מוסרט באתר אימוני Mars-Rover במדבר ארה"ב;
- השלמת קצת כולל על-ידי דני ששון;
- מפגשי תאום של הצבת תאומי אנרגיה על גגות תאומי מרכז הסקר הבינלאומי, ניו-יורק - לקראת שנת 2000;
- הכנות לתערוכה נטרופקטיבית במוזיאון ישראל;
- תאומי שיגור סופר-קתדרלה II - לקראת שנת 2000;

- 2000 נוכחות בשיגור Mars-Rover, ארה"ב, ותאום עדכני של פעילותו על המאדים;
- שיגור סופר-קתדרלה II מחצי הכדור הצפוני;
- הצבת כל צלחות ה-V.L.A. אנכי לקשד שעה - כחלק ממנה;
- נוכחות בהצבת תאומי האנרגיה על תאומי מרכז הסקר העולמי מנהטן, ניו-יורק - כחלק ממנה;
- עיצוב מגדל התקשורת של חברת החשמל - במבואה הצפונית של באר-שבע - כחלק ממנה;
- תערוכה נטרופקטיבית במוזיאון ישראל והוצאה לאור של פיסול המערכת השמש, 1985 - כסטלוג - מהדורה שניה.

Ezra Orion Collection
Public Art Archive

אם תוכלו לקיים - -

עזרא אוריון

16/11/96

Midrashat Sde-Boker
International Center for Desert Sculpture
February, 12, 1996

Dear Louis Friedman,
Dear Jon Lomberg,

Dear Louis -

no answer !

Mars CD-ROM

Thanks a lot for the copy of it - -

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

I gave it last week to the Prime Minister Shimon Peres, who is publically and operationally encourages the Sculpture-in-the-Solar-System, and beyond it - the Intergalactic-Sculpture (see the comunique of the 2nd October event in the U.N., N.Y.) -

Following our warm meeting in the International Astronautics Congress here, in Jerusalem, mid-October 1994 -

Can the Planetary Society adopt my proposal of Astro-Desert-Sculpture-on-Mars by the near-future Mars-Rover - to NASA's Marsian Program - For the launch around 2000 (see simulation in the booklet) - ? -

Can you invite me as a Desert-Astro-Sculptor for a month, to develop together the active programming of the Rover at NASA's training desert sites? - -

With best wishes,

Not a word - -

Ezra Orion
Desert Sculptor

Lisa R. Shaffer, Ph.D.

Director, Mission to Planet Earth Division

Office of External Relations

NASA Headquarters

300 E St. S.W.. Code IV

Washington DC 20546

U.S.A.

Dear Mrs. Lisa,

Tele-Desert-Sculpture on MARS

Following the meetings of Ezra Orion, a Desert Sculptor, with:

- ☐ Torrence V. Johnson, Senior Research Scientist Jet Propulsion Lab. - August 2, 1982;
- ☐ Dr. Geoffrey Briggs, NASA's Director of Solar System Exploration - January 19, 1988;
June 6, 1990;
- ☐ Dr. Peter B. Ulrich, Director, Advanced Technology and Mission Studies - August 30,
1996 -

We would like to cooperate with you:

1. A visit of E. Orion in the Training Sites of the present and future Mars-Rovers in U.S. Western Desert - to develop a dialogue with their trainers about the possibility to incorporate a simple-laconic act of stone line, or a straight furrow - toward a cliff-edge on the surface of Mars.
2. To document this dialogue and film their exercises.
3. To coordinate his visit around September 1, this year.

Yours - -

C.C.: E. Orion - International Center for Desert Sculpture.

גפוזבת אהי 27/3/97

+ פירס	+ לידיה טלקאס
+ נטלה טריי	+ ארון פונק
+ יקד	+ אהי דה-נ
+ נטל	+ פני טאשין
+ אלו	+ יגאל צלמונה
+ אה	+ סריט סטריט
+ אורמור	+ תייס האר

אוסף עזרא אוריון

מכון לשימור פומבי
INSTITUTE FOR PUBLIC PRESERVE
مؤسسة للحفاظ على التراث



Ezra Orion Collection:
Public Art Archive

24/3

+ לאהיא רנהלה

+ אהי "ארכי"

24/3

+ מיכה לון

+ סיליה ליזה

+ דני נצר

20 x

ד



MINISTRY OF SCIENCE

Israel Space Agency

משרד המדע

הסוכנות הישראלית לנבול החלל

March 5, 1997

Ref: nasa0053

Dr. Lisa Shaffer
Director, MTPE
Office of External Relations
NASA Headquarters
300E St., SW, Code IX
Washington, DC 20546

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

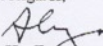
Dear Dr. Shaffer,

Enclosed, please find some examples of the work done by Mr. Ezra Orion, an Israeli Desert Sculptor. Mr. Orion has a dream, to use the MarsRover after completing it's Mission to construct a stone line, or a straight furrow toward a cliff-edge on the surface of Mars.

For this purpose Mr. Orion would like to visit the MarsRover training/simulating facilities in order to develop a dialogue with the experts there. In the past he met with Dr. Peter Ulrich from the Office of Space Science, a summary of the meeting from August 30, 1996 is attached.

I will appreciate if you could advise to whom in NASA we could turn in order to arrange such a visit.

Best Regards,


Aby Har Even
General Director

cc. Mr. Ezra Orion - International Center for Desert Sculpture.

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי
10.3.97

לאבי הר-אבן
ס.ל.ה.
תל-אביב

קיבלתי את פקס המכתב של ד"ר ליוה שאפר - 5/3.
אוסף עזרא אוריון

הרבה תודה. מקוה שיהיה קל לך, ושהיא תעביר בקלות מסך אל מי למנות לתאום
הביקור, סביב 1 לספטמבר זה.

הערה חברית - זה לא dream - זה יעד אוֹפֶרְטִיבִי - המשך למפגשים ב-2.8.82 עם טונס ג'ונסון
ב-J.P.L.; עם ג'פרי ברונס ב-19.1.88, 6.6.90 במפקדת נאסיר, ושינגטון; ועם פיטר אולריך
ב-30.8.96 שם.

מכון לזיכרון
INSTITUTE FOR PUBLIC PRESERVATION
مركز للذاكرة العامة

נראה לי, שכדאי מאד שהסוד יכלול גם הכרזת עם העוזות האמריקאיות שמפתח עם הרוסים את
Marsokhod-n.
Ezra Orion Collection
Public Art Archive

ישר כוח -

עזרא אוריון

>From guest Sun Mar 30 15:07:57 1997
From: Aby Har Even <Aby@most.gov.il>
To: "Karnieli Arnon" <karnieli@bgumail.bgu.ac.il>
Subject: FW: Space Science and Human Space Flight Enterprises Agree to
JointRobotic Mars Lander Mission
Date: Sun, 30 Mar 97 15:07:00 gmt
Encoding: 110 TEXT

Arnon Shalom
Pls. transfer this document to Ezra Orion
Regards Aby

Aby

From:
owner-press-release-gov[SMTP:owner-press-release-gov@spinoza.hq.nasa.gov]
]

Sent: eai uieue 25 i?o 1997 09:13
To: undisclosed-recipients:
Subject: Space Science and Human Space Flight Enterprises Agree to
JointRobotic Mars Lander Mission

Douglas Isbell
Headquarters, Washington, DC
(Phone: 202/358-1753)

Michael Braukus
Headquarters, Washington, DC
(Phone: 202/358-1979)

March 25, 1997

RELEASE: 97-51

Ezra Orion Collection

SPACE SCIENCE AND HUMAN SPACE FLIGHT ENTERPRISES
AGREE TO JOINT ROBOTIC MARS LANDER MISSION

In a cooperative activity intended to advance scientific knowledge and help lay the groundwork for a future decision on whether to send humans to Mars, NASA's Space Science and Human Exploration and Development of Space (HEDS) enterprises have agreed to jointly fund and manage two robotic missions to Mars due for launch in 2001.

"For the first time since the 1960s, NASA's space science and human space flight programs are cooperating directly on the exploration of another planetary body," said Dr. Wesley T. Huntress Jr., NASA associate administrator for space science. "Mars is a challenging destination for any type of spacecraft to reach, and it makes a great deal of sense for us to pursue the maximum possible return of knowledge from any chance to go there."

"This joint effort is a sign that NASA is acquiring the information that will be needed for a national decision, perhaps in a decade or so, on whether or not to send humans to Mars," said

Wilbur Trafton, associate administrator for space flight. "Early in the next century, once the International Space Station is deployed and operating, the question of our next major goal in human space flight will come up. This partnership is a major step toward ensuring that we have the information needed to answer that question."

NASA intends to launch two separate spacecraft to Mars, a small orbiter and a small lander, in March and April 2001, respectively.

The Mars Surveyor 2001 Lander will deliver a small, advanced technology rover capable of traveling several tens of miles across the Martian highlands. The rover will be able to collect rock and soil samples for later return to Earth by a future robotic mission.

Under the new internal NASA agreement, the 2001 Lander will now also be a platform for instruments and technology experiments designed to provide key insights to decisions regarding successful and cost-effective human missions to Mars. Hardware on the lander will be used for an in-situ demonstration test of rocket propellant production using gases in the Martian atmosphere. Other equipment will characterize the planet's soil properties and surface radiation environment.

"Before we can send humans into deep space, we need to understand the nature of the space environment and its effect on living systems," said Arnauld Nicogossian, M.D., acting associate administrator for life and microgravity sciences. "The Mars 2001 mission will give us invaluable information about the radiation environment of space and the surface on Mars."

Analyses of Martian dust and soil are necessary to understand any interactions with the system currently planned that will supply the habitation and working environment for future human explorers.

A companion mission to the lander known as the Mars Surveyor 2001 Orbiter will be launched in March 2001. The 2001 Orbiter will be the first to use the atmosphere of Mars to slow down and directly capture the spacecraft into orbit, in a technique called aerocapture. The scientific objectives of the mission are to conduct mineralogical mapping of the entire planet and characterize its orbital radiation environment. The 2001 Orbiter also will carry a radio relay to support the lander and a possible Russian robotic rover mission.

The preliminary cost estimate for both integrated missions is approximately \$311 million, not including launch costs. An integrated team of the Jet Propulsion Laboratory (JPL), Pasadena, CA; the Johnson Space Center, Houston, TX; and Lockheed Martin Astronautics, Denver, will develop the missions, led by JPL.

Both of the 2001 missions are part of an ongoing NASA series of robotic Mars exploration spacecraft that began with the

launches of the Mars Global Surveyor orbiter and the Mars Pathfinder lander in November and December 1996, respectively. Mars Pathfinder and its 25-pound rover, named Sojourner, will land on Mars in a region called Ares Vallis on July 4, 1997.

-end-

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

IPQ



Ezra Orion Collection
Public Art Archive

לצטט: עזרא אוריון

ACTY 10-1000-00

IS

JUL 23 1997

Ms. Rachel Moss
Administrative Assistant
Israel Space Agency
26a Chaim Levanon Street
P.O. Box 17185
Tel-Aviv 61171, Israel

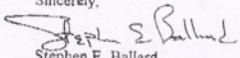
Dear Ms. Moss:

Referencing Mr. Ezra Orion's inquiry through the Israel Space Agency regarding the completion of a sculpture on Mars, we do not foresee any possibilities for this activity

The expansion of human knowledge of space phenomena is one of NASA's principal responsibilities. Consequently, NASA has established a planetary exploration program to specifically accommodate science and technology payloads. Launch opportunities for these payloads are very limited, monetary costs are substantial, and risks associated with space exploration are significant. Launch opportunities for Mars missions, for example, arise approximately once every two years. The mandate for maximizing science returns from these missions is paramount.

Mr. Orion's concept of using a Mars rover to construct a line of stones, or to produce a straight furrow, towards a cliff-edge is an interesting concept. However, NASA's resources must be totally devoted to the technological and scientific activities required to ensure successful planetary missions. NASA does not foresee the possibility of using these limited resources to consider non-scientific non-technological activities which could add risk to, and/or impose constraints on, the science and technology missions planned for development well into the next millennium. Consequently, we cannot consider Mr. Orion's request to visit NASA facilities to observe rover activities or to develop a dialogue with NASA engineers.

Sincerely,


Stephen E. Ballard
Space Science and Aeronautics
Office of External Relations

P.003

FAX: 972 3 6422297

ISRAEL SPACE AGENCY 24 9 (THU) 09:08

26a Chaim Levanon Str., P.O.Box 17185, Tel-Aviv 61171, Tel. 972-3-6422297 Fax: 972-3-6422296

FACSIMILE TRANSMISSION

NASA

NUMBER OF PAGES

DATE



INTERNATIONAL RELATIONS

2 + COVER

July 23, 1997

TELEPHONE

(202) 358-0900

FAX

(202) 358-3029

FROM: STEPHEN BALLARD
NASA HQ - CODE IRD
WASHINGTON, DC 20546
USA

TO: Rachel Moss

Rachel Moss

Administrative Assistant

Israel Space Agency

972-3-6422298

אוסף עזרא אוריון

ארכיון אמנות במרחב הציבורי

Enclosed is an advance copy of a letter mailed to you today. I have been discussing Mr. Orion's proposal with the Office of Space Science, the office responsible for the planning and funding of all Mars mission. Numerous factors, including what we have learned from the Mars Pathfinder mission and the first use of a rover on Mars, were considered in reaching our decision.

Public Art Archive

Sincerely,

Stephen E. Ballard

cc: Ms. Kamm

National Aeronautics and
Space Administration
Headquarters
Washington, DC 20546-0001



23/7/97

JUL 23 1997

IS

Ms. Rachel Moss
Administrative Assistant
Israel Space Agency
26a Chaim Levanon Street
P.O. Box 17185
Tel-Aviv 61171, Israel

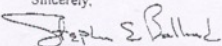
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Sincerely,


Stephen E. Ballard
Space Science and Aeronautics
Office of External Relations

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי
1.8.97

לאבי הר-אבן
מנכ"ל
הסוכנות הישראלית לשימוש בחלל
תל-אביב

אקט פיסולי על המאדים
אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי
קבלתי בפקס מקדם את תשובתו השלילית של סטיב באקארד, NASA.

שולח לך טיוטא של תגובה ארוכת-טווח לתאום עתיד - ומציע שנשלח אותו דרככם;
כולל אומדן עלויות.

ומציע לנצל את ביקורו של דן גולדין בארץ בשנה הבאה "יחד אתך" כאן - כדי להמריץ את
הדיאלוג אתם עבור ה-Rovers הגדולים יותר מזה שנחת שם ב-4.

Ezra Orion Collection
Public Art Archive

הרבה תודה ויישר כוח -

עזרא אוריון

מצורף: צילום המכתב של פרופ' יורם שפירא

4/8
2
3

To: yoram shapira <shapira@pop.erols.com>
 From: faiman@bgumail.bgu.ac.il (David Faiman)
 Subject: Re: space

Dear Yoram, I'm sorry I didn't get back to you earlier - if only to convey greetings to you in your new position - but I plead the usual excuses of pressure of work, etc.

Let me make a couple of comments regarding Ezra's perceived needs at the present time.

First, he is perfectly well aware that every cm³ of space aboard any vehicle is eagerly competed for by the scientific community and will remain so for years to come. There is thus no question of including a robot sculptor or any other equipment or material whatsoever. What he would like NASA to do - at the end of a scientific mission, i.e. before putting the Mars Rover into its stow condition pending the next scientific mission - is to perform some human-directed act on Mars "in the name of art". Specifically, Ezra would have them program the Rover to move some rocks into a pre-specified pattern that he, the artist, would create.

Second, that said, Ezra would like to meet one or more of the planners in order to create what he describes as the correct personal "chemistry". i.e. so that they will appreciate that he is a rational person (rather than some "crazy out there") who is sensitive to their constraints and who would like to discuss - directly with them - the possibility and desirability (on their part) of collaborating on such an "art mission".

If you could help oil the wheels in helping him to have such a meeting it would do more than all the letters he could ever write.

I appreciate your understanding and willingness to help.

Sincerely, David.

>Hi David,

>Pls write to me at my new address. I am fine and very busy but i have
 >had contacts with Ezra already and will help him as much as i can

>best

>yoram

>

>--

>Professor Yoram Shapira

>Minister-Counselor - Science Affairs

>Embassy of Israel

>3514 International Dr. NW

>Washington, DC 20008

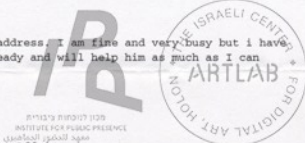
>Tel: 202-364-5651

>Fax: 202-364-5670

>e-mail: shapira@pop.erols.com

אוסף עזרא אוריון

ארכיון אמנות במרחב הציבורי



Ezra Orion Collection
 Public Art Archive

התקבל 2/9
 + מאת לאירא

Date: Tue, 12 Aug 1997 09:31:51 -0400
 From: Yoram Shapira <shapira@pop.erols.com>
 MIME-Version: 1.0
 To: David Faiman <faiman@bgumail.bgu.ac.il>
 Subject: Re: space
 X-Priority: 3 (Normal)

Shalom David

i fully sympathize with ezra's mission and being a scientist I am all
for Art. However, I gather from ISA that NASA is totally against the
 idea and thus there nothing I can do
 best
 yoram

--

Professor Yoram Shapira
 Minister-Counselor - Science Affairs
 Embassy of Israel
 3514 International Dr. NW
 Washington, DC 20008
 Tel: 202-364-5651
 Fax: 202-364-5670
 e-mail: shapira@pop.erols.com

אוריין - אוריין

אוסף עזרא אוריון
 ארכיון אמנות במרחב הציבורי



מכון לזיכרון וידידות
 INSTITUTE FOR PUBLIC PRESERVANCE
 معهد للتذكور والصداقة



Ezra Orion Collection
 Public Art Archive

Peter Ulrich, Ph.D.
Lisa R. Shaffer, Ph.D.
Stephen E. Ballard
NASA Headquarter
Washington U.S.A.

Center of International Desert Sculpture
Midreshet Sde-Boker
ISRAEL, 23 August 1997

Sculpture in the Solar System

Desert Sculpture Act on Mars

I received by E-mail Stephen Ballard July 23 message to Mrs. Rachel Moss:

"Not foresee any possibility for this activity" - -

- The dialogue with NASA, concerning 'Sculpture on Mars', started in a personal meeting with Torrence V. Johnson, Senior Research Scientist, J.P.L., Pasadena - on August 2, 1982. His letter confirms "the result of the stimulating conversation, we had today concerning the possibility of creating simple sculptures, or art forms, on other planets by means of automated spacecraft"
 - On January 19, 1988, I met Dr. Jeffrey Briggs in your office, and the summing-up of the dialogue was his words: "I am sympathetic to your idea".
 - On June 6, 1990, I met again Dr. Jeffrey Briggs at yours. Present in this positive doalogue was Stephen Ballard.
 - On August 30, 1996, we met at yours. Present in this dialogue was also Mr. Baruch Binna and Stephen Ballard from the Israeli Embassy. The summng-up of the dialogue was that my visit in a Training-Base of the future candidates of the Mars-Rover could be coordinated in the near future. In that dialogue you, Peter, summed-up the limitations of the first Mars-Rover in shaping a local stone-line, and suggested a line-of-short-furrows.
- - - - -

I do regard the pioneering complexity of the sample-collection-missions of tne Marsian desert; and suggest - as long-distance desert-sculptor - to continue our long-distance pioneering **dialogue** toward the end of the second millenium - and the first decades of the

third - to compose, to unify complimentary , a human desert geo-sculpture within your geo-sientific missions.

All The Best -

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

Ezra Orion
Desert Sculptor

CC: Aby-Har-Even, Israel Space Agency

Prof. Akiva Bar-Nun, Tel-Aviv University

Prof. Hagay Netzer, Tel-Aviv University

Prof. Yoram Shapira, Israel Embassy, Washingeon

Mr. Baruch Binna, Israel Embassy. Washington

Mr. Igal Zalmona, Israel MUseum, Jerusalem

Prof. Avi Shapira, The Geophysical Institute of Israel

Prof. David Feiman, Desert Research Institute, Misreshet Sde-Boker



Ezra Orion Collection
Public Art Archive

12/7/97 02-5617520
אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

SIMONETTA DELLA SETA
CORRESPONDENT

מכון לזיכרון ציבורי
INSTITUTE FOR PUBLIC PRESENCE
مؤسسة للتحفظ العام

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Public Art Archive

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E-Mail: 100320.1437@compuserve.com

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Jerusalem 91083

מאסמחדר I נאג 4/7

סימולט פלמיה
T - - T

9794737-050

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

פיהל!
ד

אינליד T.V.
IPQ



זאב צלוג
החומר שלבדני נאור
Ezra Orion Collection
Public Art Archive

7/12 0445 +

11/7
מרחל : אק' ה'אקן
ארכיון קבניאל

1430 /7

15/7 הוצעה מקלסמט : 80 אק'י

התקשר עם סיומנה
סמל: חתך

Airone

ready to make a difference in the world

From Airone editorial office

To: Mr. EZRA ORION

Dear Mr. Orion,

We're publishing on our next issue an article inspired

by Simona Della Porta about you and your job.

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

Concerning your paper collection and

papers, send us a letter

your own address if you wish to receive our newsletter

that will tell you more about the project. Thank you very much.

Best regards,

IPQ

מכון לזיכרון וידידות
INSTITUTE FOR MEMORY AND FRIENDSHIP
معهد للذاكرة والصداقة



Ezra Orion Collection
Public Art Archive

Our Taxi Co: 052/2/99.125.395

Phone: 052.166.395

אל סמנה פניה

הח' חנה 5
מח' חתך רפא-ס (ח' חתך)

אחרי יום ירוק
צאת ציור יחידה

עזרא אוריון
1997

13.13 / 12.30 +
19.45 " " +
מסמך 1/1/98
חלק ציור
חלק סמל
חלק אדום
23/7/97

לירוס שפירא
נספח מדעי
שגרירות ישראל
ושינגטון

פיסול על-פני מאזים

קבלתי את מכתבך ב' 15/1 טאן.
ארכיון אמנות במרחב הציבורי

האם הנך מכיר את ג'ין סאבור?
האם תוכל ליצור אתה קשר אחת ולמספר חודשים ולהרגיש את הדופק
של פרוייקט המאזים של NASA.
מכון לזיכרון וידידות
INSTITUTE FOR PUBLIC PRESERVANCE
מסגרת להגנה והחלפת

בוא נחשוב יחד על אפשרות של קיום מסיבת יעוץ/אזינה בושינגטון על פרוייקט
הפיסול הרובוטי במדבר המאזים - בקפטמבר - כדי ליצור זכות יוצרים ©
Ezra Orion Collection
Public Art Archive

להתראות -

עזרא אוריון

ראי עכשיו לראי אתה
חזק זה

מה עזרתי לך יעקב יפה וא
יבואינך דהי 17/4
לראי מסר ד' 2000

העתקים: פרופ' חני נצר
ינאל צלמונה

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי
20.1.98

ליום שפירא
נספח מדעי
שגרירות ישראל
ושינגטון

פיסול על-פני מאדים

קבלתי את מכתבך, ב־15/1 כאן
אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי
האם הנך מכיר את ג'ין סאובר?

האם תוכל ליצור אתה קשר איתו למספר חודשים ולהרגיש את הדופק
של פרוייקט המאדים של NASA.

מכון לזיכרון ציבורי
INSTITUTE FOR PUBLIC PRESENCE
מרכז להנפקת והפצת

בוא נחשוב יחד על אפשרות של קיום משיבת-עתונאים בשינגטון על פרוייקט
הפיסול הרבובטי במדבר המאדים - בספטמבר - כדי ליצור "זכות יוצרים" ©
Ezra Orion Collection
Public Art Archive

להתראות -

עזרא אוריון

העתקים: פרופ' חגי נצר
יגאל צלמונה

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי

27.1.98

למיכאל איתן
שר המדע
ירושלים

פיסול מדברי על מאדים

ב"ז לאוגוסט 1982 נפגשתי לראשונה עם מרען בכיר ב-J.P.L. קליפורניה, לבחינת
ארכיון אמנות במרחב הציבורי.
אפשרות של פיסול רובוטי על-פני כוכב מאדים.
בנישות נוספות היו במקדמת NASA בשנים 1988, 1990, 1996 - כשהנשיון הוא לשכנע
אותם לשלב בתכניות אימוני הרובוטים MARS-ROVERS חצבת קראאנים מקומיות
אל שפת קצוק - הם אוהדים ומסקרבים באדיבות.

מכון לזיכרון ציבורית
INSTITUTE FOR PUBLIC PRESENCE
مركز الذاكرة العامة



Ezra Orion Collection
Public Art Archive

בוא נקנש -

עזרא אוריון
פסל מדברי

מצורפים: חוברת רקע
דפי רקע

* שום פסל לא הציע זאת עד היום.

4 X

לד"ר דן רונן
ראש המינהל לתרבות ולאמנות
ירושלים

שלום -

פיסול במערכת השמש

פיסול בין-גלאקטי

אוסף עזרא אוריון 1982-1998

ארכיון אמנות במרחב הציבורי

ביום א', 8.3.98 הופיעה כתבה של ד"ר נח ברוש: 'אמנות עתידית בקלל' (צילום מצורף).

חיוני לקיים בהקדם מסיבת עיתונאים / תקשורת - להמקשת התהליך החלוצי שלנו ←

משנת 1982 - ולנוח על הקנות לשיגור שני תאומי אנרגיות לייזור ענקיים מרשת S.L.R. -

מחצי הכדור הצפוני - בניצב למישור שביל החלב ב-27,4.1000 האקס של פיסול מדברי

במדבר המאדים על-ידי אחד המאסטרס היום העתידיים (צילומים מצורפים) -

בתאום עם משרד המדע. ←
Public Art Archive

בוא גפגש לתאום -

עזרא אוריון

מדינת ישראל
 משרד החינוך והתרבות
 מינהל התרבות והאמנות
 המח' לאמנויות פלסטיות

ירושלים, 21 אפריל, 1998
 כ"ה ניסן, תשנ"ח

לכבוד
 מר עזרא אוריון
 מדרשת שדה בוקר
 מרכז בינ"ל לחינוך סביבתי

לעזרא שלום רב,

הנדון: פיסול במערכת השמש, פיסול בין-לאומי 1982-1998
 אסימבול: מכתב לד"ר דן רונן בדו"ח מיום 15/3/98

ד"ר דן רונן בקשני להתנצל בפניך שלא יוכל להשתתף במסיבת העיתונאים / תקשורת שאתה מייעד לנושא הני"ל, ומאחל לך הצלחה בהמשך דרכך.

מכון לזכויות פיסוליות
 INSTITUTE FOR PUBLIC PRESERVANCE
 معهد للحفاظ على الفنون

Ezra Orion Collection
 Public Art Archive

בכבוד רב,
 אדוני מר/אן
 חרמונה גרונאו
 מנהלת המחלקה לאמנויות פלסטיות

בטלסני טס
 חסידי פרידה
 חלפן: יוריס
 יטא יחסי חסר האלפי
 אל תפריד
 20/4

העסק: ד"ר דן רונן - מנהל האגף לתרבות ולאמנות

20/4 קלה את כעבת אל סן; יוריס לעיס ...

Midreshet Sde-Boker
Center for International Sculptor
22.6.98

Dr. Roger Malina
Executive Editor
LEONARDO

Desert Sculpture on MARS

Following our cooperation from 1982 U.S.C. Conference in San-Francisco - to our meeting in Binyanei Hauma, Jerusalem Conference 13.10.1994 - and the correspondence in 1996 - I met on August 30 that year Peter Ulrich in NASA Headquarters in Washington - regarding future coordination of stone line toward Vales Marineris cliff-edge by some of the future Mars-Rovers.

Their answer is polite NO (see letter July 23, 1997).

Can you consider and coordinate with NASA, as the Executive Editor of LEONARDO, a visit for both of us, in training-base of the future Mars-Rovers - as their guests - for a reportage in your Jurnal Toward 2000 - - for summer 1999 - -

Yours,

Ezra Orion
Desert Sculptor

- - All the solids in the Universe are Deserts - -

21/7/98
: 1188 3308
6483308 : 070 +



LEONARDO

אוסף עזרא אוריון
ארכיון אמנות במרחב הציבורי

DR. ROGER F. MALINA

Executive Director

Ezra Orion Collection
Public Art Archive

UNIVERSITY OF CALIFORNIA
Center for EUV Astrophysics
Berkeley, California 94720

Ph: 510-643-5636
Fax: 510-643-5660
email: rmalina@cea.berkeley.edu

94/10/13

נפגשו קמני האמה

סומנו

אוסף עזר אוריון
ארכיון אמנות ומרחב תצבור

פופס

דמי ויל

על

על



אתר

Ezra Orion Collection
Public Art Archive

Midreshet Sde-Boker
Center for International Sculpture
13.7.98

Dr. Roger Malina

Dear Roger -

Desert Sculpture on MARS
ארכיון אמנות במרחב הציבורי

I got yesterday back my letter to you from 22.6.98.

I'm sending it again to the adress of your personal ticket that you gave me when we met in
موقع للتقويم الجماهيري
the conference in Jerusalem in 1994.

Ezra Orion Collection
Public Art Archive

Yours,

Ezra Orion

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי
20.11.98

לסילבן שלום
שר המדע
ירושלים

שלום -

פיסול רובוטי על מאדים

אוסף עזרא אוריון

קראתי את הכתבה ב"העיתון האחרון" מתוך, על פיקודת נבסוס NASA ביוסטון טקסס,
בה מוזכר גם דן גולדיו, ראש NASA, שבסך באתר בסוף יוני.

ב-15 לאוקטובר מסרתו דניית במשכה של בירושלים את חומר ההצעה - להרחיב את מימדי
הפיסול האנושי אל מערכת-השמש על-יד: ביצוע ה-Mars-Rover על המאדים בעתיד הקרוב.

INSTITUTE FOR PUBLIC PRESENCE
معهد للفنور العام

Ezra Orion Collection
Public Art Archive

עזרא אוריון
פסל מדברי

העתקים: יגאל צלמונה, מוזיאון ישראל
פיטר הילמן, המוזיאון למדע, ירושלים

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי
3.10.99

למתן וילנאי
שר המדע והתרבות

שלום -

פיסול מדברי על המאדים פוסט-2000

- כל המוצקים ביקום הם מדבריות -

בהמשך למפגשנו ביום ה', 23.9.99, ולקראת מפגש הקרוב עם דן גולדן:
ב-2.8.1982 נפגשתי ב-NASA עם טורנס ג'ונסון, J.P.L. - לגבי אפשרות של שילוב אקט פיסולי

על שפת 'עמק המאדים' על-ידי ה-Mars-Rover העתידי -
(פוסק על 2 פגישות נוספות)
ב-30.8.96 נפגשתי עם פיטר אולריך; המקר שלו: אני אוחד את הכעיון, אבל...

פכין לזכרון
INSTITUTE FOR PUBLIC PRESENCE
معهد للذاكرة العامة

Ezra Orion Collection

אני מציע לתאם תרגול של הנחת קו אמנים על-ידי הרובוט העתידי במדבר ארה"ב + תקשורת,

בנוכחותנו - כתחילת ההבקעה -

יישר כוח

עזרא אוריון

מדרשת שדה-בוקר
מרכז בינלאומי לפיסול מדברי

1.2.2001

5/2

של

לאבי הר-אבן
ס.ל.ה.

שלום -

פיסול רובוטי על המאדים

אני קורא ב-National Geographic האחרון -

אוסף עזרא אוריון
בתקנה על היבטים חדשים של פני המדבר הזה

על-פי שפע של צילומי הלוחן MGS ששוגר ב-1996 - כ-80.000 צילומים - -

"...המשימות הבאות בעתיד העשור יהיו תלויות במה שיגלו השיגורים
של השנים 2001 ו-2003 ... (עמ' 49) ותוכניות ראשוניות לשיגור רכב..."

בוא ננסה יחד, שוב, לשלב בין הצבת קו אגנים מקומיות אל שפת מצוק
ולס מארינריס - -

Public Art Archive
דרך תרגול רובוטי מוקדם במרחב אחר

ישר כוח -

עזרא אוריון