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Aerospace
Industries
Association

Don Fuqua
President

April 30, 1994

Dr. John H. Gibbons
Office of Science and Technology Policy
Old Executive Office Building, NW
Washington, DC 20500

Dear Dr. Gibbons:

The enclosed paper is the fourth in a series which confirms the need to reassess our nation's investment priorities. AIA is the trade association which represents the nation's manufacturers of commercial, military, and business aircraft, helicopters, aircraft engines, spacecraft, and related components and equipment.

The enclosed paper, "Space Research - Improving Health and Our Planet," details a number of "spin-offs" from the national space program that have led to various technologies with immeasurable value. Some applications of these technologies include programmable implanted pacemakers, and thermometers that measure body temperature from ear drum sensors. The unique conditions of space provide an environment not possible here on earth which may be conducive to the development of designer pharmaceuticals, better understanding of osteoporosis, and the evolution of tools to resolve immune system dysfunctions.

AIA believes a well structured investment in the space program provides American businesses the ability to retain their global leadership. We look forward to any comments you may have since continued discussion on these most important topics is critical in defining U.S. goals for space.

Sincerely,

Don Fuqua

DF:mjm

Enclosure



**Aerospace
Industries
Association**

Space Research—Improving Health and Our Planet

While communications and weather satellites are very visible examples of space, a critical aspect of space research is becoming vastly more important to our very lives and to the future of human life on Earth.

The Health Care Connection: From Spin-offs to Focused Research in Space

Health care has long been a beneficiary of developments from the space program. These “spin-offs” have spawned immensely important new technologies, such as:

- Body-imaging systems like the CAT scanner and magnetic resonance imaging use image processing techniques, developed for planetary probes, that allow diagnosis without risky exploratory surgery.
- Technology developed to measure the temperatures of the stars and planets has been used in a thermometer that senses heat from the eardrum to quickly measure a patient's body temperature.
- Programmable implanted pacemakers are monitored and adjusted by physicians with a wireless telemetry system developed for the manned space program.



Thermometer uses infrared space technology to take almost instantaneous readings.

Efforts are under way to use the unique conditions of space for studies that are not possible on Earth:

- Space Shuttle research has made it possible to grow protein crystals that are larger, purer and more precisely ordered than those produced on Earth; indeed, some cannot be grown at all in the presence of gravity. These crystals are essential for studying a protein's three-dimensional molecular structure with X-ray crystallography. Space-made protein crystals may greatly improve our understanding of biochemistry and may enable “designer pharmaceuticals” specifically tailored to produce a medical result without side effects.
- Life science research performed by astronauts in Earth orbit is contributing to our fundamental understanding of the aging process in humans. Observed bone loss in space crews mimics osteoporosis, an incurable condition that affects millions of women in America. Technology developed to assess bone loss in space has already been applied here on Earth to study bone density, as well as a person's predisposition to fractures and postmenopausal osteoporosis—a \$10-billion-a-year health problem in the United States alone.
- Experiments flown aboard the Space Shuttle suggest that temporary immune system changes in astronauts during space flight are similar to those associated with immune deficiency ailments, trauma or infection. We may develop new tools in the fight against AIDS, cancers and other immune system dysfunctions by understanding the causes of these changes—and developing countermeasures.
- Space studies supported by NASA are making a significant contribution to our understanding of breast cancer. Biomedical research facilities developed to mimic the effects of weightlessness have been used to culture cancerous cells that more closely resemble cancer growth patterns in the human body. These cell cultures greatly increase our understanding of

cancer and provide an excellent way to test new therapies.

Only through the continued availability of long-duration missions in space will we be able to do the research needed to develop treatments and eventual cures.

Ensuring a Sustainable Environment

"When you look out and look across our atmosphere, it . . . is like the skin of an onion and you can actually see some of the pollution—you can look down and realize we're taking this thing that God has given us and we're throwing it away. . . ."

— Astronaut Charles Bolden

As with medicine, our ability to monitor and understand our planet from space has increased greatly over the past three decades. Remote sensing satellites with instruments to scan the Earth below began as a space research effort with specific applications in mind. These orbiting "eyes in the sky" have helped in forecasting crop yields, tracking severe storms, assessing damage from rampaging floodwaters, searching for pockets of oil and minerals, documenting urban sprawl and detecting the

onslaught of environmental pollution.

The current pace of world ecological degradation is frighteningly swift. *It is estimated that 50 percent of the original extent of tropical forests has been lost to deforestation in the past two decades. In the next 30 years, the human population in the tropics will double, putting these fragile forests at even greater risk.* Although the rain forests cover only 7 percent of our terrestrial surface, they account for over half of all plant and animal species.

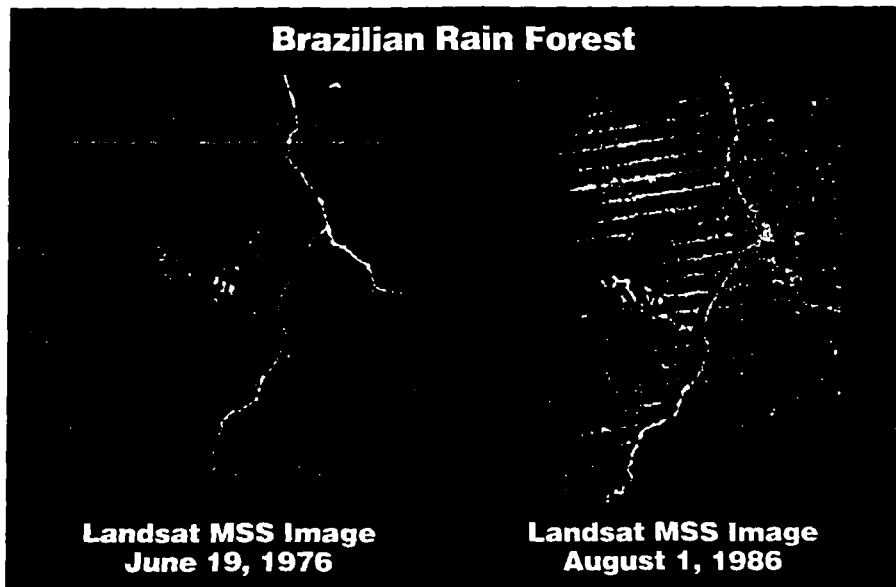
Satellites with sophisticated sensing and mapping technologies will allow us to track and predict changes in this and other ecosystems all over the globe. These other ecological systems and environmental impacts include:

- Plant and wildlife endangerment
- Carbon cycle and climatic change
- Biological diversity and habitat destruction
- Ice-sheet flows
- Earth's solar energy budget

Our ability to understand these phenomena and their interplay in nature will enable us to become better stewards of this planet Earth

than we have been. This greater understanding should allow us to reduce these impacts through better predictions of the consequences of human activity on our planet.

America's efforts in space have yielded many medical, environmental, and scientific benefits for our country and the world. Making the investment today in a robust space program that supports both human needs and environmental goals will help ensure a sustainable quality of life on Earth for our children and their children.



Images from Landsat multispectral scanner show contrast before (left) and after (right) development in the Amazon rain forest.

Agenda

April 14, 1993

- | | | |
|------------|----|---|
| 9:00 A.M. | 1. | Call to Order
(J. Mullin, Sundstrand)
a. Announcements
b. Introduction of New Members |
| 9:10 A.M. | 2. | Executive Committee Report
(J. Mullin, Sundstrand)
a. Confirmation of Appointments
b. Approval of CTC Charter
c. Report to the BOG
d. Workshop Report
e. Coordination with P&FC
f. NCAT Update |
| 9:45 A.M. | 3. | Role of Govt/Ind in Science & Technology
(J. Gansler, TASC) |
| 10:45 A.M. | | Break |
| 11:00 A.M. | 4. | An Academic View of Science & Technology
(B. Marsh, NSF) |
| 12:00 Noon | | Reception/Lunch |
| 1:30 P.M. | 5. | Future of S&T in Government/Industry
(J. Bachkosky, DR&E - Moderator)
Panelists: Dr. John Lyon, DoC; Dr. Fenton
Carey, DoE; Bob Hayduk, NASA |
| 3:30 P.M. | | Break |
| 3:45 P.M. | 6. | Nationalization of DIB: A BOG View
(D. Fuqua, AIA) |
| 4:15 P.M. | 7. | Committee Reports
(Committee Chairmen) |
| 5:00 P.M. | | Adjourn for the Day |
| 6:00 P.M. | | Reception and Dinner |

April 15, 1993

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| 8:00 A.M. | 8. | AFMC IR&D Program
(Col. D. McNierney, AFMC) |
| 8:45 A.M. | 9. | Administration Policy on S & T
(Dr. L. Johns, OSTP) |
| 9:30 A.M. | 10. | Benchmarking the Design Process: A Report
(R. Hawizsazk, Texas Instruments) |
| 10:15 A.M. | | Break |
| 10:30 | 11. | Engineering Division
(A. Gentile, Coltec) |
| 10:45 A.M. | 12. | Council EDI Project
(W. Dunlop, Texas Instruments) |
| 11:15 A.M. | 13. | DARPA Concepts
(Col. M. Francis, DARPA) |
| 12:00 A.M. | 14. | Agile/Lean Manufacturing
(B. Morris, MC) |
| 12:30 P.M. | 15. | Other Business |
| 12:45 P.M. | 16. | Adjourn the Meeting |

No Lunch

"Document Control"

TYPE: INVITATION

DOCUMENT NUMBER: 9300086

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STATUS I

DIRECTORATE STATUS

FROM: FUQUA, DON: AEROSPACE INDUSTRIES ASSOCIATION

TO: DR. JOHN GIBBONS

DATE OF
CORRESPONDENCE: 01/26/93

SUBJECT: INVITATION TO JOIN THE MEETING OF THE TECHNICAL &
OPERATIONS COUNCIL-ENCLOSED IS THE COUNCIL LISTING

DIRECTORATE

STAFF

ASSIGNED: DIRECTOR'S OFFICE

ASSIGNED:

ACTION

STAFF

REQUIRED: DIRECT REPLY

ACTION:

SENDER'S DUE DATE: 02/17/93

OSTP DUE DATE: 02/17/93

STAFF DUE DATE

DATE COMPLETED:

DATE COMPLETED/DEPT:

COPIES TO: DR. GIBBONS

WHITE HOUSE TRACKING #:

CONTACT PERSON: MALT MALTAGLIATI

PHONE: 202-371-8452 EXT:

REMARKS:

OSTP RECEIVED: 02/03/93

DEPT RECEIVED:

FILE: P-INVITATION

CENTRAL FILES:



**Aerospace
Industries
Association**



Don Fuqua
President
371-8501

January 26, 1993

Dr. John H. Gibbons
President's Science Advisor
Office of Science & Technology Policy
Old Executive Office Building
17th & Pennsylvania Avenue, N.W.
Washington, D.C. 20500

Dear Dr. Gibbons:

The Aerospace Industries Association invites you to join the meeting of the Technical & Operations Council at their meeting in Washington, D.C. at the Madison Hotel, 15th & M Streets on April 14, 1993. The theme of the meeting is science and technology as part of the industrial base in the light of declining economic activity. The Council would very much appreciate your views as perceived from the advantage point of Science Advisor to the President. I plan to give the industry perspective budgets that same day. The Council believes that hearing both talks will help them focus industry engineering and development activities. Following this presentation we would have an open dialogue with Council members.

The Technical and Operations Council is made up of one corporate representative from each AIA member company and acts as the aerospace industry's senior technical and operations advisory body. These individuals are usually the top technical and operations vice presidents of their companies and are directly or indirectly responsible for technical and technical program management, industrial base and operations issues affecting the industry as well as those involved in research, engineering, development, manufacturing, quality assurance, materiel management, and product support. The Council is responsible for seeking solutions to broad management problems of mutual concern to government and industry. It operates through formal committees and direct personal liaison with government officials. A list of Council members and their affiliation is enclosed.

AIA hopes you can join us at this meeting and have tentatively scheduled your presentation to begin at 4:15 P.M., April 14, 1993. You are cordially invited to join the Council for dinner that same evening. We would appreciate confirmation on both time for your briefing and attendance at dinner at your earliest convenience. Please call Malt Maltagliati at 202-371-8452 as to your attendance at the meeting and dinner.

Sincerely,

Don Fuqua

Enclosure

DF:mjm

TECHNICAL & OPERATIONS COUNCIL
1993

Aerojet General	H.W. (Hal) Campen	Dir., Tech. Dev.	916/351-8609
Alcoa	W.S. (Walt) Cebulak	Mgr., Govt. Tech.	317/448-3750
Allied-Signal	J. E. (James) Strang	V.P., Technology	310/512-4523
Argo-Tech	L. (Lowell) Hansen	Engineering Dept. Manager	216/692-5733
Astech/MCI	R. (Bob) Ault	Mgr., Structures Dev.	714/250-2166
Best Foam	H.A. (Harith) Razaa	V.P., Govt. Affairs	312/721-1006
BFGoodrich	J.S. (Jerry) Lee	V.P., Aero. Div. Research	216/447-5443
B.H. Aircraft	R.F. (Bob) Kearns	Exec. Vice President	516/249-5000
Boeing	L.J. (Larry) Winslow	V.P., Engineering	206/655-9631
Coltec	A.J. (Anthony) Gentile	V.P., Engineering	203/236-0651
Dowty	F. (Frank) Byford	V.P., Adv. Tech. & New Bus. Dev.	818/359-9211
E-Systems	S.A. (Sam) Musa	V.P., Research & Tech.	214/392-4931
FMC	S. (Srinivasan) Rajagopal		408/289-3572
GEC-Marconi	M. (Murray) Goldstein	V.P., Engineering	201/305-2000
General Dynamics	J.C. (Clifford) Schoep	Staff V.P., Technology	703/876-3482
General Electric	R.G. (Bob) Stiber	V.P. & General Manager	513/243-4163
General Motors	A.N. (Arthur) Chester	V.P. & Director	213/317-5200
Grumman	T. (Tom) McGrath	Sr. V.P., Manufacturing	516/346-8329
Gulfstream	G.S. (George) Viteritti	Dir., Vehicle Sciences	912/964-3345
Harris	C.J. (Carmen) Palermo	V.P. & Chief Scientist	407/727-4115
Heath Tecna	M. (Mike) Morgan	Sr. V.P., Operations	206/872-7500 X4260
Hercules	P.A. (Peter) Bukowick	V.P., Technology & Engineering	302/594-6447
Hexcel	D.J. (Donald) O'Mara	VP/Gen. Mgr. Honeycomb Bus. Unit	510/828-4200
Honeywell	L.R. (Len) Weisberg	V.P., Research & Eng.	612/951-0236
ITT	A. (Al) Tien	VP/Dir. Tech. & Strategic Plng.	703/247-2943
Kaman	D.J. (David) White	V.P., Engineering	203/243-6311
Lockheed	R.P. (Chris) Caren	Corp. V.P. Science & Eng.	818/876-2277
Lucas	K. (Kevin) Speight	V.P., Tech. & Oper.	703/264-1704
Martin Marietta	R.G. (Robert) Morra	V.P., Tech. Operations	301/897-6601
McDonnell Douglas	J.M. (James) Sinnett	Vice President/General Manager	314/232-7800
Northrop	G.J. (George) Friedman	V.P. Eng./Long Range Plng.	310/201-3311
Parker Hannifin	R. (Roy) Langton	V.P. Prod. Tech. & Integrity	714/833-3000
Raytheon	P.W. (Phillip) Cheney	V.P., Engineering	617/860-2283
Rockwell	D.I. (Donald) Carter	Dir., Aero. & Elec. Tech.	310/797-5090
Smiths Industries	A. (Angelo) Dimitriou	V.P., Engineering	616/241-7122
Sundstrand	J.P. (Jerry) Mullin	V.P. Res. Adv. Tech. Group	815/226-5052
Teledyne	H. (Harry) Halamandaris	Dir., Technology	310/551-4248
Texas Instruments	(Mike) Lockerd	V.P., Def. Sys. & Elec. Group	214/575-3378
Textron	M. (Mike) Proppen	V.P., Engineering	203/385-2622
Thiokol	R.K. (Robert) Lund	V.P., Advanced Technology	801/863-3461
TRW	A. (Arvel) Witte	Director, IR&D Program	310/814-0314
United Technologies	B.L. (Ben) Koff	Exec. V.P., Group Eng. & Tech.	407/796-5285
Vought	J.A. (Joe) Ayres	V.P., Product Development	214/266-0724
Westinghouse	R.N. (Noel) Longuemare	VP/Gen. Mgr. Sys. Dev/Tech Div.	410/765-3328
AIA	S.N. (Stan) Siegel	V.P., Technical & Operations	202/371-8430
AIA	M.J. (Malt) Maltaagliati	Assist. V.P., Technical	202/371-8452

(BASF, IBM, Loral Vought and Rohr deleted from list)
New Member in **BOLD**

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File

TYPE: INVITATION DOCUMENT NUMBER: 9300086
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FROM: FUQUA, DON: AEROSPACE INDUSTRIES ASSOCIATION

TO: DR. JOHN GIBBONS

DATE OF
CORRESPONDENCE: 01/26/93

SUBJECT: INVITATION TO JOIN THE MEETING OF THE TECHNICAL &
OPERATIONS COUNCIL-ENCLOSED IS THE COUNCIL LISTING

DIRECTORATE STAFF
ASSIGNED: DIRECTOR'S OFFICE ASSIGNED:

ACTION STAFF
REQUIRED: DIRECT REPLY ACTION:

SENDER'S DUE DATE: 02/17/93
OSTP DUE DATE: 02/17/93 STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT:

COPIES TO: DR. GIBBONS

WHITE HOUSE TRACKING #: CONTACT PERSON: MALT MALTAGLIATI
PHONE: 202-371-8452 EXT:
REMARKS:

OSTP RECEIVED: 02/03/93 DEPT RECEIVED:
FILE: P-INVITATION
CENTRAL FILES:



**Aerospace
Industries
Association**



Don Fuqua
President
371-8501

January 26, 1993

Dr. John H. Gibbons
President's Science Advisor
Office of Science & Technology Policy
Old Executive Office Building
17th & Pennsylvania Avenue, N.W.
Washington, D.C. 20500

*Rich
instead?*

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Sincerely,

Don Fuqua

*Ann
Scudder*

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