

Originally Processed With FOIA(s):  
2005-0336-F

FOIA Number:  
2005-0336-F

# FOIA MARKER

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**Record Group/Collection:** George H.W. Bush Presidential Records  
**Collection/Office of Origin:** Science and Technology Policy, Office of (OSTP)  
**Series:** Bromley, D. Allan, Files  
**Subseries:** General Science Files

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**OA/ID Number:** 62042  
**Folder ID Number:** 62042-004

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**Folder Title:**  
Physical Sciences: General (1) [4 of 7] [1992]

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| Stack: | Row: | Section: | Shelf: | Position: |
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|        | 0    | 0        | 0      | 0         |

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SEP 24 1992

"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9202645  
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS  
\*\*\*\*\*

FROM: HEITHAUS, William C.: AMERICAN ASSOCIATION OF CONCERNED ENGINEERS

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/26/92

SUBJECT: HE ASKS FOR AN OUTLINE OF OSTP'S ROLE IS IN THE  
MATTER OF UNEMPLOYED ENGINEERS AND WHAT STEPS ARE  
FEASIBLE FOR OSTP TO TAKE TO ALLEVIATE THE PROBLEM.  
HE ALSO ASKS FOR SUGGESTIONS FOR ACTIONS THAT THEIR  
MEMBERS MAY TAKE TO HELP.

\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: PHYSICAL SCIENCES ASSIGNED: *Lee Schneider*

ACTION STAFF  
REQUIRED: FOR DAB'S SIGNATURE ACTION:

\*\*\*\*\*  
SENDER'S DUE DATE:  
OSTP DUE DATE: 10/06/92 STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT: 11/18/92

\*\*\*\*\*  
COPIES TO: D. Allan Bromley

\*\*\*\*\*  
WHITE HOUSE TRACKING #: CONTACT PERSON:  
PHONE: EXT:  
REMARKS: REASSIGNED TO PHYSICAL SCIENCES PER DR. WONG.  
*Dr. Schneider drafted letter for DAB.*

OSTP RECEIVED: 09/01/92  
FILE: P-PHYSICAL SCIENCES

DEPT RECEIVED:

CENTRAL FILES:





"Document Control"

TYPE: ACTION

DOCUMENT NUMBER: 9202645

ORIGINATOR: 02

STATUS I

DIRECTORATE STATUS

\*\*\*\*\*

FROM: HEITHAUS, William C.: AMERICAN ASSOCIATION OF CONCERNED ENGINEERS

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/26/92

SUBJECT: HE ASKS FOR AN OUTLINE OF OSTP'S ROLE IS IN THE  
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MEMBERS MAY TAKE TO HELP.

\*\*\*\*\*

DIRECTORATE

STAFF

ASSIGNED: INDUSTRIAL

ASSIGNED:

→ PS 4 E

ACTION

STAFF

REQUIRED: FOR DAB'S SIGNATURE

ACTION:

\*\*\*\*\*

SENDER'S DUE DATE:

OSTP DUE DATE: 09/14/92

STAFF DUE DATE

DATE COMPLETED:

DATE COMPLETED/DEPT:

\*\*\*\*\*

COPIES TO: D. Allan Bromley

\*\*\*\*\*

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE:

EXT:

REMARKS:

OSTP RECEIVED: 09/01/92

DEPT RECEIVED:

FILE: P-INDUSTRIAL-ECONOMIC COMPETITIVENESS

CENTRAL FILES:



---

American Association of Concerned Engineers Inc.

P.O. Box 667 Trilby, FL 33593

---

August 26, 1992 92 AUG 26 P6 35

D. Allan Bromley Ph.D.--Director OSTP  
The Assistant to the President for Science & Technology  
Executive Office Building  
Washington, D.C. 20506

MAIL ROOM  
202-456-7116

Dear Dr. Bromley:

I understand that one of our colleagues, Dr. Gene Nelson, has been in touch with you regarding the unemployment crisis among scientists and engineers. I am told he has recommended that you take the initiative to establish special programs to fund research positions for the thousands of unemployed scientists and engineers. This evidently could take the form of special federal appropriations and/or tax incentives. The American Association of Concerned Engineers concurs in this, and we would hope your office is in a position to bring this about.

We believe that unemployment for Americans is just one byproduct of the international economic situation. However, for engineers and scientists to face widespread unemployment during this critical time is particularly troubling, since under-allocation of resources to engineering is one of the main reasons American products have not been able to compete. Thus, America is in sort of "death spiral", where inadequate allocation of engineering breeds non-competitive products, which breed lower revenues and poorer profits which, in turn, are interpreted by industry as a signal to lay off more engineers and scientists...etc.!

We believe Dr. Nelson's recommendations fit in with the actions economist Lester Thurow tells us should be taken to rescue this country. As part of them, funding for research and development and all aspects of engineering would be increased dramatically, thus relieving the employment problem for engineers and scientists, while restoring America's competitive position.

We support Dr. Nelson's recommendations, but we are unsure whether you are in a position to influence their implementation. Would you please outline for us the role of your office in this matter, and what steps are feasible for you to take to alleviate engineering unemployment? What suggestions can you offer our members as to action they can take?

Your advice and assistance in this critical matter are most appreciated.

Sincerely,

  
William C. Heithaus, P.E.  
AACE Director

cc: R. W. Lowrie, P.E.  
Gene Nelson, Ph.D.

THE WHITE HOUSE  
WASHINGTON

November 30, 1992

Dear Mr. Heithaus:

Thank you for your letter regarding the employment situation for engineers and scientists. The present job market in this area is clearly tight. This is all the more unfortunate given the general recognition that a talented and productively occupied core of engineers and scientists is essential to furthering U.S. competitiveness on both a national and global scale.

However, it is worth noting that despite the difficulties of tight budgets at all levels the Federal government has continued to support substantial growth in the R&D sector in the recognition of its potential for economic development and enhancement of the health and welfare of our citizens. In fiscal year 1993 the request was about \$72B for the overall Federal R&D program. Steady growth of the R&D sector has been our goal and in general Congress has supported this concept. However, actual funds appropriated have generally fallen short of the mark. In addition, Congress has taken to "ear-marking" the budget, a process which reduces the funds targeted for R&D in the President's request.

To address your specific question about what this office is doing to alleviate unemployment in the ranks of our engineers and scientists I have indicated our leadership role in supporting the Federal R&D program and, in addition, our efforts in support of improvements to the infrastructure of our university education and research establishment. In addition, OSTP helps coordinate research activities across Federal agencies through its Congressionally mandated role in the Federal Coordinating Council for Science, Engineering and Technology (FCCSET). The FCCSET process has over the last several years developed so-called FCCSET initiatives which have resulted in targeted R&D activities, supported by the President, throughout the Federal establishment. One goal of these initiatives is to catalyze increased private-sector R&D activity.

Concerning Dr. Nelson's recommendation of funding special research positions for unemployed engineers and scientists through, for example, special tax incentives, I would urge that you and your colleagues get in touch with appropriate members of Congress and their staff.



Page 2

All of us must be concerned about the lack of productive employment positions for our engineers and scientists. To restore America's competitive edge we need to utilize the vital resource represented by this group. Continuing to advocate and support the essential role of the research community to the economical health of the United States is one of the best ways to do this.

Sincerely yours,

A handwritten signature in black ink, reading "D. Allan Bromley". The signature is written in a cursive style with a large, stylized "D" and "B".

D. Allan Bromley  
The Assistant to the President  
for  
Science and Technology

Mr. William C. Heithaus  
AACE Director  
P.O. Box 667  
Trilby, FL 33593

TYPE: ACTION  
ORIGINATOR: 02

"Document Control"

DOCUMENT NUMBER: 9202645  
DIRECTORATE STATUS

STATUS I

FROM: HEITHAUS, William C.: AMERICAN ASSOCIATION OF CONCERNED ENGINEERS

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/26/92

SUBJECT: HE ASKS FOR AN OUTLINE OF OSTP'S ROLE IS IN THE  
MATTER OF UNEMPLOYED ENGINEERS AND WHAT STEPS ARE  
FEASIBLE FOR OSTP TO TAKE TO ALLEVIATE THE PROBLEM.  
HE ALSO ASKS FOR SUGGESTIONS FOR ACTIONS THAT THEIR  
MEMBERS MAY TAKE TO HELP.

DIRECTORATE

ASSIGNED: PHYSICAL SCIENCES

STAFF

ASSIGNED:

ACTION  
REQUIRED: FOR DAB'S SIGNATURE

STAFF  
ACTION:

OSTP DUE DATE: SENDER'S DUE DATE:  
DATE COMPLETED: 10/06/92

STAFF DUE DATE  
DATE COMPLETED/DEPT:

COPIES TO: D. Allan Bromley

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS: REASSIGNED TO PHYSICAL SCIENCES PER DR. WONG.

PHONE:

EXT:

OSTP RECEIVED: 09/01/92  
FILE: P-PHYSICAL SCIENCES

DEPT RECEIVED:

CENTRAL FILES:



"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9202645  
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS  
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FROM: HEITHAUS, William C.: AMERICAN ASSOCIATION OF CONCERNED ENGINEERS

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DATE OF  
CORRESPONDENCE: 08/26/92

SUBJECT: HE ASKS FOR AN OUTLINE OF OSTP'S ROLE IS IN THE  
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HE ALSO ASKS FOR SUGGESTIONS FOR ACTIONS THAT THEIR  
MEMBERS MAY TAKE TO HELP.

\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: INDUSTRIAL ASSIGNED:

→ PS 4 E

ACTION STAFF  
REQUIRED: FOR DAB'S SIGNATURE ACTION:

\*\*\*\*\*

SENDER'S DUE DATE:  
OSTP DUE DATE: 09/14/92 STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT:

\*\*\*\*\*

COPIES TO: D. Allan Bromley

\*\*\*\*\*

WHITE HOUSE TRACKING #: CONTACT PERSON:  
REMARKS: PHONE: EXT:

OSTP RECEIVED: 09/01/92 DEPT RECEIVED:  
FILE: P-INDUSTRIAL-ECONOMIC COMPETITIVENESS

CENTRAL FILES:



"Document Control"

TYPE: ACTION

DOCUMENT NUMBER: 9202645

ORIGINATOR: 02

STATUS I

DIRECTORATE STATUS

\*\*\*\*\*

FROM: HEITHAUS, William C.: AMERICAN ASSOCIATION OF CONCERNED ENGINEERS

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/26/92

SUBJECT: HE ASKS FOR AN OUTLINE OF OSTP'S ROLE IS IN THE  
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HE ALSO ASKS FOR SUGGESTIONS FOR ACTIONS THAT THEIR  
MEMBERS MAY TAKE TO HELP.

\*\*\*\*\*

DIRECTORATE

STAFF

ASSIGNED: INDUSTRIAL

ASSIGNED:

ACTION

STAFF

REQUIRED: FOR DAB'S SIGNATURE

ACTION:

\*\*\*\*\*

SENDER'S DUE DATE:

OSTP DUE DATE: 09/14/92

STAFF DUE DATE

DATE COMPLETED:

DATE COMPLETED/DEPT:

\*\*\*\*\*

COPIES TO: D. Allan Bromley

\*\*\*\*\*

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

PHONE:

EXT:

OSTP RECEIVED: 09/01/92

DEPT RECEIVED:

FILE: P-INDUSTRIAL-ECONOMIC COMPETITIVENESS

CENTRAL FILES:



2645

RECEIVED

American Association of Concerned Engineers Inc.

P.O. Box 667 Trilby, FL 33593

August 26, 1992 92 SEP 1 P 6:35

D. Allan Bromley Ph.D.--Director OSTP  
The Assistant to the President for Science & Technology  
Executive Office Building  
Washington, D.C. 20506

OSTP  
MAIL ROOM  
202-456-7116

Dear Dr. Bromley:

I understand that one of our colleagues, Dr. Gene Nelson, has been in touch with you regarding the unemployment crisis among scientists and engineers. I am told he has recommended that you take the initiative to establish special programs to fund research positions for the thousands of unemployed scientists and engineers. This evidently could take the form of special federal appropriations and/or tax incentives. The American Association of Concerned Engineers concurs in this, and we would hope your office is in a position to bring this about.

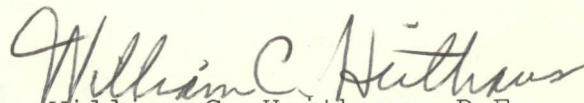
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We support Dr. Nelson's recommendations, but we are unsure whether you are in a position to influence their implementation. Would you please outline for us the role of your office in this matter, and what steps are feasible for you to take to alleviate engineering unemployment? What suggestions can you offer our members as to action they can take?

Your advice and assistance in this critical matter are most appreciated.

Sincerely,

  
William C. Heithaus, P.E.  
AAACE Director

cc: R. W. Lowrie, P.E.  
Gene Nelson, Ph.D.

920 2827

ORIGINATOR: 02 STATUS I DIRECTORATE STATUS  
\*\*\*\*\*

FROM: McCain, John: UNITED STATES SENATE

TO: JAMES DYER

DATE OF  
CORRESPONDENCE: 08/26/92

SUBJECT: A REQUEST FOR INFORMATION REGARDING THE DISTRIBUTION  
OF GRANTS.

\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: PHYSICAL SCIENCES ASSIGNED:

ACTION STAFF  
REQUIRED: FOR DAB'S SIGNATURE ACTION:

\*\*\*\*\*  
SENDER'S DUE DATE:  
OSTP DUE DATE: 09/30/92 STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT:

\*\*\*\*\*  
COPIES TO: D. Allan Bromley

\*\*\*\*\*  
WHITE HOUSE TRACKING #: CONTACT PERSON:  
PHONE: EXT:  
REMARKS: FORWARDED BY PRESIDENTIAL CORRESPONDENCE AS BATCH MAIL.

OSTP RECEIVED: 09/22/92 DEPT RECEIVED:  
FILE: P-PHYSICAL SCIENCES  
CENTRAL FILES:





June 22, '92

Dear Aunt Melan,  
In three travelled  
thirteen times with  
a 4 million dollar  
deficit - tell me how  
you justify the money  
being allotted to such  
a balance paper!!  
There they and find  
out why all this is  
happening - for we are  
oppressed and aggrieved.

Henry Clark  
6153 E. Harvard  
Berkeley, Ca. 94707

PK 0043 ©Carton Cards

P.S. What is  
the money for  
specifically??

I wish and we  
are "giving" this  
much money??

It seems outrageous.

# ASU prof is calm, so far, over award

## Will receive \$500,000 at White House

By Randy Cordova

The Arizona Republic

In her cramped office at Arizona State University, Lucy Ziurys doesn't seem fazed by the prospect of being handed a half-million dollars by President Bush.

"I'll probably be nervous that day, but right now, I've got other things to think about," the 35-year-old assistant chemistry professor said recently.

Ziurys is among the first 30 U.S. scientists and engineers to receive a \$500,000 Presidential Faculty Fellow Award. Today, she will participate in a ceremony with other fellows at the White House.

The event is "a bit more than I ever expected," she said, even if it isn't wracking her nerves.

In May 1991, Bush announced the creation of the fellowship program, which is intended to allow recipients to work for five years without worrying about federal

grants or funding.

Ziurys' cool is probably due to the fact that she's not new to the awards game. In 1990, she was selected as a Presidential Young Investigator, which is worth up to \$500,000 in a combination of federal and matching private funds.

Aside from her university duties, she is also an astrochemist, which combines the fields of astronomy and chemistry.

"There's not too many people that do both," she said.

With the award, she plans to continue her study of gas clouds in space. Learning their chemical composition, she believes, would have "implications about where life begins."

Ziurys is pleased that the fellowship is bringing recognition not only to herself but to ASU.

"It's a very prestigious award for the school. People who receive these awards have to compete with profes-

sors from Harvard, Yale, Berkeley, you name it," she said.

On the other hand, she doesn't know whether her students will be impressed by the prize.

"Students have these ideas about professors," Ziurys said. "That is, that science professors are weird in general."

Bush Library Photocopy



OSTP

(814294)

THE WHITE HOUSE  
WASHINGTON

RECEIVED

2827

92 SEP 21 A9:59

August 31, 1992

OSTP  
MAIL ROOM

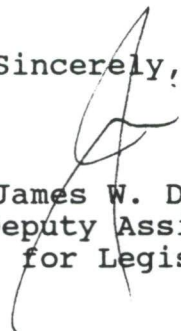
Dear Senator McCain:

This is to acknowledge and thank you for your letter of August 26, regarding Mrs. Eleanor Clark, and her concerns towards the Presidential Faculty Fellow Award.

In order to ensure expeditious review of your request, I have forwarded the letter to the appropriate member of the President's staff. You may be sure that it will be given prompt and careful attention.

With kindest regards,

Sincerely,

  
James W. Dyer  
Deputy Assistant to the President  
for Legislative Affairs (Senate)

Honorable John McCain  
United States Senate  
Washington, DC 20510

Shipping  
Action mail analysis  
DEOB58

JOHN MCCAIN  
ARIZONA

United States Senate

WASHINGTON, D.C. 20510

August 26, 1992

Mr. James Dyer  
Deputy Assistant to the  
President for Legislative Affairs  
The White House  
1600 Pennsylvania Avenue  
Washington, D.C. 20500

Dear Mr. Dyer:

I have enclosed an inquiry which I have received from  
Eleanor Clark of Scottsdale, Arizona.

I would greatly appreciate it if you would review this  
material and provide me with a prompt response addressing this  
issue.

PLEASE MARK THE ENVELOPE TO THE ATTENTION OF: Hugh Barrow  
in my Washington office, 111 Russell Senate Office Building,  
Washington, D.C. 20510. Thank you very much for your kind  
assistance and cooperation.

Sincerely,



John McCain  
United States Senator

JM/hbp  
Enclosure

Bush Library Photocopy  
Miscellaneous Handwriting



9202808

ORIGINATOR: 02 STATUS I DIRECTORATE STATUS  
\*\*\*\*\*

FROM: HUANG, William K.: UNIVERSITY OF TEXAS AT AUSTIN

SEP 23 1992

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/25/92

SUBJECT: HE IS WRITING TO ASK FOR DR. BROMLEY'S SUPPORT AND  
ENDORSEMENT OF THE SECOND ANNUAL TEXAS ENGINEERING  
LEADERSHIP SYMPOSIUM.

\*\*\*\*\*  
DIRECTORATE *DIRECTOR* STAFF  
ASSIGNED: *PHYSICAL SCIENCES* ASSIGNED:

ACTION  
REQUIRED: *AS NECESSARY* STAFF  
ACTION:

\*\*\*\*\*  
SENDER'S DUE DATE:  
OSTP DUE DATE: *09/30/92* STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT: *10/1/92*

\*\*\*\*\*  
COPIES TO: D. Allan Bromley

\*\*\*\*\*  
WHITE HOUSE TRACKING #: CONTACT PERSON:  
REMARKS: *DAB's office wrote letter -* PHONE: EXT:

OSTP RECEIVED: 09/21/92 DEPT RECEIVED:  
FILE: P-PHYSICAL SCIENCES  
CENTRAL FILES:





920 2808

ORIGINATOR: 02 STATUS I DIRECTORATE STATUS  
\*\*\*\*\*

FROM: HUANG, William K.: UNIVERSITY OF TEXAS AT AUSTIN

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/25/92

SUBJECT: HE IS WRITING TO ASK FOR DR. BROMLEY'S SUPPORT AND  
ENDORSEMENT OF THE SECOND ANNUAL TEXAS ENGINEERING  
LEADERSHIP SYMPOSIUM.

\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: PHYSICAL SCIENCES ASSIGNED:

*inappropriate for*

ACTION STAFF  
REQUIRED: AS NECESSARY ACTION:

\*\*\*\*\*  
SENDER'S DUE DATE:  
OSTP DUE DATE: 09/30/92 STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT:

\*\*\*\*\*  
COPIES TO: D. Allan Bromley

\*\*\*\*\*

WHITE HOUSE TRACKING #: CONTACT PERSON:  
REMARKS: PHONE: EXT:

OSTP RECEI  
FILE: P-PH  
CENTRAL FI

VED:

9/3,  
Charlie,  
sending this  
to us - I can't  
find "Rich"  
copy. I've closed  
out on C.T.  
Rimille

*Done - out*



THE WHITE HOUSE  
WASHINGTON

October 1, 1992

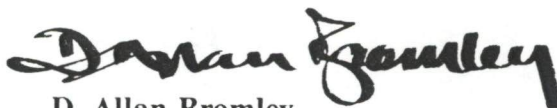
Dear Mr. Huang:

Thank you for your letter of August 25 seeking support for the Second Annual Texas Engineering Leadership Symposium at The University of Texas at Austin. I note that you have invited President Bush to speak on October 17.

While I appreciate your desire for the President to speak before such a stellar group of engineering students, you must recognize that his schedule for the remainder of this month is grueling. If Presidential Scheduling contacts me regarding this event, as does occur for most science and technology events, I will be pleased to share my enthusiasm for such a visit.

In the meantime, let me offer my best wishes for a successful conference.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Allan Bromley", with a stylized flourish at the end.

D. Allan Bromley  
The Assistant to the President  
for  
Science and Technology

Mr. William K. Huang  
Speakers Chair  
Texas Engineering Leadership Symposium  
The University of Texas at Austin  
College of Engineering  
Austin, Texas 78712

2808

THE UNIVERSITY OF TEXAS AT AUSTIN  
THE STUDENT ENGINEERING COUNCIL  
COLLEGE OF ENGINEERING  
AUSTIN, TEXAS 78712

25 August 1992

RECEIVED

Dr. D. Allan Bromley  
Assistant to the President for Science & Technology  
Director of the Office of Science & Technology Policy  
The White House  
1600 Pennsylvania Avenue NW  
Washington, DC 20500

92 SEP 21 A 9: 58

OSTP  
MAIL ROOM

Dear Dr. Bromley:

I am writing to ask for your support and endorsement of the Second Annual Texas Engineering Leadership Symposium (TELS) sponsored by the Student Engineering Council at The University of Texas at Austin. We have invited President Bush to address our Symposium for dinner on Saturday, October 17, and we are currently in the October 'hold' file with Appointments and Scheduling. Ms. Suzie Salomone (Appointments and Scheduling) suggested that I contact you to help our chances for having President Bush attend our Symposium.

TELS will recognize approximately 60 outstanding engineering student leaders from universities across the nation selected by application. The objective of TELS is to study and aid in the transition from leadership in a collegiate environment to leadership in a corporate environment. We will accomplish this objective with speakers, seminars, discussions, and small group activities.

Some of our speakers include: Dr. Hans Mark, Chancellor of The University of Texas System ('84 - '92) & Deputy Administrator of NASA ('81 - '84); Mr. John T. Molloy, author of "Dress for Success;" Congressman Joe Barton, Deputy Republican Whip; and Dr. Margaret Maxey, President of the National Institute for Engineering Ethics. Our seminars will include discussions on leadership skills, corporate issues, and collegiate & corporate leadership, and we will feature a workshop on engineering ethics.

We feel that the Texas Engineering Leadership Symposium would benefit greatly with the attendance of President Bush, and we will gratefully appreciate any support that you or your office could give.

If I can be of any assistance, please contact me at (512) 482-0286. In the event you may need to fax something to us, the Student Engineering Council fax number is (512) 471-4304. Thank you.

Sincerely,



William K. Huang  
Speakers Chair  
Texas Engineering Leadership Symposium

Copies: Dr. W. H. Cunningham, President of The University of Texas at Austin  
Dr. H. H. Woodson, Dean of the College of Engineering



"Document Control"

TYPE: INFORMATION

DOCUMENT NUMBER: 9202498

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

\*\*\*\*\*

FROM: SYMINGTON, JAMES: O'CONNOR & HANNAN

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/18/92

SUBJECT: LETTER REGARDING A CULMINATION OF EFFORTS TO GET A  
SAIL INTO SPACE IN 1992.

\*\*\*\*\*

DIRECTORATE  
ASSIGNED:

STAFF  
ASSIGNED:

ACTION  
REQUIRED:

STAFF  
ACTION:

\*\*\*\*\*

SENDER'S DUE DATE:

OSTP DUE DATE:  
DATE COMPLETED:

STAFF DUE DATE  
DATE COMPLETED/DEPT:

\*\*\*\*\*

COPIES TO: PHYSICAL SCIENCES  
D. Allan Bromley

\*\*\*\*\*

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE:

EXT:

REMARKS:

OSTP RECEIVED: 08/27/92  
FILE: P-PHYSICAL SCIENCES

DEPT RECEIVED:

CENTRAL FILES:

2498

O'CONNOR & HANNAN

ATTORNEYS AT LAW

SUITE 800  
1919 PENNSYLVANIA AVENUE N.W.  
WASHINGTON, D.C. 20006-3483

(202) 887-1400

TELEX 89-7420

FAX (202) 466-2198

JAMES W. SYMINGTON

MINNEAPOLIS OFFICE  
3800 IDS CENTER  
80 SOUTH EIGHTH STREET  
MINNEAPOLIS, MN 55402-2254  
(612) 341-3800  
FAX (612) 343-1256

MADRID OFFICE  
LA RINCONADA, 6, 3º  
28023 MADRID, SPAIN  
(011) 341 575-0944 & 357-2251  
FAX (011) 341 577-0759

August 18, 1992

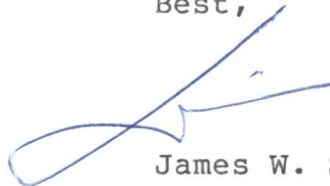
Dr. D. Allan Bromley  
Assistant to the President  
for Science and Technology  
OE0B Room 358  
17th & Pennsylvania Avenue, N.W.  
Washington, D.C. 20500

Dear Allan:

This is the culmination of our efforts to get a sail into space in 1992. Note the Donatelli letter to Project Director Sevastianov.

Stay tuned.

Best,



James W. Symington



that can be positioned along the beam's length.

Energia will make an effort to seek Russian suppliers for Mir 2 hardware and components because of what Blagov claimed are "exaggerated prices" being charged by companies elsewhere in the Commonwealth of Independent States.

He noted that before the Soviet Union's breakup, Energia had in certain cases been asked by the centralized Communist government to allow outside subcontractors to work in the various republics. "We were told in the past to diversify our contracts, but today the prices charged outside Russia are skyrocketing, and there is not a corresponding increase in quality or capability," Blagov said.

"Since we no longer can have honest business arrangements with those people, we will go to a more closed circle of suppliers within Russia."

Mir 2 will have a Russian-supplied computer for station control that will be an updated version of the original com-

puter built in Russia for the Soyuz manned transport spacecraft. Blagov said this resulted from the price hikes of Ukraine's Kiev Radio Factory, which is supplier of the station control computer used on Mir 1.

A new computer for Mir 1 has been ordered from the Kiev Radio Factory as a follow-on to the station's existing unit. The memory of the computer now on Mir 1 is reaching its storage capacity, and the new computer also will need to have the capability to be able to control the new thruster package installed atop Mir 1's Sofora mast.

#### PRICE HIKES

According to Blagov, the new computer is similar to the one now in use on Mir 1, but the price now charged by the Kiev Radio Factory has increased about 10 times.

"We paid 2.5 million rubles for the other computer on Mir 1, and the Ukrainian company is now charging 20 million rubles, [approximately \$117,600],

for the new one," Blagov said. "Following their independence, the republics began demanding prices that are crazy—that have absolutely nothing to do with actual development and production costs."

Such price increases are complicating Energia's efforts to manage the financial aspects of its new and ongoing space programs.

"We're fed up with spending too much money [in other republics], and we will contract as much as possible with companies inside Russia," he said.

Mir 1 is 6½ years old, and Russian program officials said they believe the station will continue operating at least into 1995 without major problems.

The station was operating last week with five cosmonauts on board, including French crewman Michel Tognini. Tognini is scheduled to return to Earth Aug. 10 with mission commander Alexander S. Viktorenko and engineer Alexander Y. Kaleri, who were launched to Mir 1 in March. □

## Russia Exploring Solar Sail Applications; Prototype Test Scheduled This Fall

KALININGRAD, RUSSIA

Russia will test a prototype solar sail this year as the first step in an ambitious program aimed at using such sails for spacecraft propulsion and other applications.

The prototype sail will be carried by a Progress cargo spacecraft scheduled for launch to the Mir 1 station in late October or early November.

After the Progress completes its scheduled resupply mission at Mir, cosmonauts will install a drum containing the solar sail on the docking mechanism of Progress. The resupply spacecraft will undock from Mir in November or December, be pointed away from the station and maneuvered to provide sufficient operating clearance.

Development of the sail was made possible through an industry grouping called the Space Regatta Consortium, which is led by the Energia Scientific and Industrial Enterprise. A total of 15 companies are involved in the consortium.

Nikolai N. Sevastianov, the Space Regatta Consortium's general director, said deployment of the sail will begin when Progress is a distance of 160 meters from Mir. The unfurling process will take three to five minutes, and should be completed when the Progress is a distance of 320 meters from the station.

Deployment of the sail will be monitored by the cosmonauts on board Mir. As part of the experimentation, there will

be an attempt to orient the sail in such a way to reflect sunlight toward a spot on the Earth.

The round, eight-segment sail is made of 5-micron-thick aluminized film, called PETF-OA. The film material was produced by the Joffe Physics and Technical Institute in St. Petersburg. Overall diame-

*Space Regatta Consortium  
offered the possibility for  
companies to place  
advertising on the sail*

ter of the sail is 20 meters. Mass of the sail material is about 4.2 kg., and total mass of the unit—including sail, drum and associated hardware—is about 40 kg.

The sail has no frames or other support members. Its deployment from the drum will be performed by centrifugal force created by the rotation of the drum. The drum rotation also ensures the deployed sail retains its form once it is unfurled.

"Our goal is to keep down the sail's overall weight, and we think our approach of using centrifugal force is unique," Sevastianov said.

The drum will rotate at a roll rate of about 570 deg./sec. to provide sufficient

torque for the sail's deployment. Once the sail takes its form, the drum's roll rate will be about 84 deg./sec. to keep the unit deployed and to maintain its shape.

The sail will be evaluated in its deployed form on Progress for a period of about three days. It then will be separated from the spacecraft before the Progress makes a destructive reentry. The sail also will reenter the atmosphere and burn up.

The Space Regatta Consortium has offered the possibility for companies to place advertising on the sail. The advertising spots, offered at prices ranging from \$20,000 to \$100,000, will be visible on film Mir 1 cosmonauts will shoot for television rebroadcast to Earth.

Program managers envision a number of applications for solar sails in the future. One is as a means of propulsion for spacecraft.

Another possibility is to use huge sails as reflectors that will illuminate selected points on the Earth. "This could provide a sufficient level of light to allow work during nighttime hours on oil/gas drilling sites in northern Russia or at the scenes of major disasters, for example," Sevastianov said.

The sails could be deployed as large antenna reflectors for telecommunications relay missions. Some evaluations also have been made on whether such sails could be used to "sweep up" small debris in Earth orbit. □





QUINCENTENARY  
JUBILEE  
COMMISSION

November 27, 1991

Mr. Nikolay N. Sevastianov  
General Director  
Space Regatta Consortium  
Moscow, Russia

Dear Mr. Sevastianov:

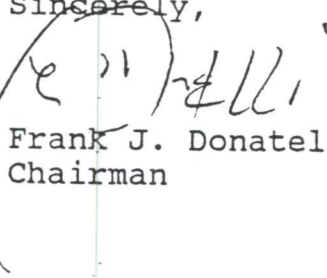
On behalf of the Columbus Quincentenary Commission, I wish to congratulate you and your colleagues of the Space Regatta Consortium for your grand initiative in the design, preparation and construction of a solar powered space sail to be launched in October, 1992. The Commission was advised three years ago by Dr. Klaus Heiss, Chairman of the Columbus 500 Space Sail Foundation, of plans to elicit worldwide competition in this imaginative manner of celebrating and projecting the spirit of navigation and discovery into the next dimension, space and the universe. The Commission received this report with enthusiasm, and encouraged the Foundation to proceed with such plans.

The purpose of this letter is to assure you that the Commission continues to give its wholehearted encouragement to the Space Sail project in general and in particular, welcomes the considerable progress made under your direction and that of your distinguished colleague, Vladimir S. Syromiatnikov.

The attached memorandum signed by you both represents our understanding of the events contemplated to occur on or about October 12, 1992. We note with satisfaction that the American coordinating entity will continue to be the Columbus 500 Space Sail Foundation. There could be no more appropriate way of marking the 500th anniversary of Columbus' voyage than by the launch and deployment of a sun-powered sail in space. If the first such sail were to fly under the banner of Russia's Space Regatta Consortium, it would be an historic milestone in mankind's eternal quest for new knowledge and understanding.

Again, on behalf of the members of the Columbus Quincentenary Commission, I convey to you heartiest congratulations and very best wishes for success.

Sincerely,

  
Frank J. Donatelli  
Chairman





National Aeronautics and  
Space Administration

Washington, D.C.  
20546

Office of the Administrator

June 17, 1992

The Honorable James W. Symington  
Co-Chair  
Columbus 500 Space Sail Foundation  
O'Connor and Hannan  
Suite 800  
1919 Pennsylvania Avenue, NW  
Washington, DC 20006-3483

Dear Mr. Symington:

Thank you for your letter of April 24, 1992, regarding the Columbus Space Sail Project and the Russian plan to launch a small sail from the MIR space station this fall.

As you know, NASA has followed the planning for Space Sails and the Regatta with interest since its inception. Our principal point of contact has been Mr. Ivan Bekey, Special Assistant to the Deputy Administrator, who is familiar with the status of the Regatta and the Russian plans you mention.

Solar sails are among several innovative and highly promising techniques for future spacecraft propulsion, particularly for unmanned inner solar system applications. I welcome innovation and commend you and your team for the private sector initiative you have shown.

I recommend that you continue your discussions with Mr. Bekey, as well as with Mr. Richard Kline of our Office of Aeronautics and Space Technology, and keep them apprised of further developments.

Sincerely,

Daniel S. Goldin  
Administrator

THE WHITE HOUSE  
WASHINGTON

September 30, 1992

Dear Jim:

Many thanks for sending me the information on the Russian plans for a solar sail prototype test. I will be watching with great interest and was pleased to see that Ivan Bekey is our contact with the Soviets in the NASA domain. He is an impressive individual and will certainly carry forward our best interests within the NASA frame of possibilities.

I have talked briefly with Dan Goldin about our discussion at the Bohemian Grove and, although he is certainly interested, he is so constrained by his budget and the necessity to keep so many existing programs aloft that he finds it very difficult to even consider picking up anything new.

Since I last contacted you I have read through the book you gave me with great interest. It is, as you have noted, a pity that we were unable to move forward with your original plans because it would certainly have been a fitting celebration of the 500th anniversary of Columbus' arrival in America.

With warmest best wishes,

Sincerely yours,



D. Allan Bromley  
The Assistant to the President  
for  
Science and Technology

James W. Symington, Esquire  
O'Connor & Hannan  
Suite 800  
1919 Pennsylvania Avenue, N.W.  
Washington, D.C. 20006



"Document Control"

TYPE: INFORMATION DOCUMENT NUMBER: 9202488  
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS  
\*\*\*\*\*

FROM: HENLEY, ERNEST: THE AMERICAN PHYSICAL SOCIETY

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/17/92

SUBJECT: ENCLOSED JOINT STATEMENT FROM THE AMERICAN PHYSICAL  
SOCIETY.

\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: ASSIGNED:

ACTION STAFF  
REQUIRED: ACTION:

\*\*\*\*\*  
SENDER'S DUE DATE:  
OSTP DUE DATE: STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT:

\*\*\*\*\*  
COPIES TO: PHYSICAL SCIENCES  
D. Allan Bromley

\*\*\*\*\*  
WHITE HOUSE TRACKING #: CONTACT PERSON:  
PHONE: EXT:  
REMARKS:

OSTP RECEIVED: 08/27/92 DEPT RECEIVED:  
FILE: P-PHYSICAL SCIENCES

CENTRAL FILES:

# The American Physical Society

335 EAST 45th STREET, NEW YORK, NEW YORK 10017-3483 (212) 682-7341

## President

**Ernest M. Henley**

*University of Washington*

## President-Elect

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**Benjamin Bederson**

*New York University*

## Office of Public Affairs

**Robert Park**

*University of Maryland*

Dr. D. Allan Bromley  
Assistant to the President  
for Science & Technology  
The White House  
Washington, DC

*Allan*  
Dear Dr. Bromley:

I thought the enclosed joint statement from the American Physical Society and The European Physical Society might be of interest to you.

Sincerely,



Ernest M. Henley

EMH:cm

P.S.: Signatures on file

2488  
RECEIVED

AUG 17 1992 8:32

MAIL ROOM



A Joint Statement by the Presidents of the American Physical Society  
and the European Physical Society

Regarding

EXTENSIVE COLLABORATION ON LARGE PHYSICS PROJECTS

As a result of a meeting of the presidents and other executives of The APS and EPS, we jointly issue the following statement.

Physics Research increasingly relies on large facilities or instruments, each used by many scientists. These tools are required for a growing number of research pursuits that strive to extend the limits of mankind's knowledge. The great size, complexity, and cost of the facilities, and the large number of users they each serve, calls for an increased degree of international cooperation and collaboration in their planning, construction and operation.

Therefore, the APS and EPS urge an international approach to the choice, design, construction, exploitation, and possibly even selection of future very large facilities for physics research. Such an approach should be developed to the fullest extent possible, in order to use the funds allocated for research in the most efficient and effective way. A collaborative approach, which is becoming a requirement for even medium size projects in Europe, should include the United States for very large projects. Ideally, such collaborations should extend to the entire industrialized world.

The APS and EPS stand ready to assist in the organization of forums, workshops, topical conferences as well as to communicate through their respective divisions, publications and networks. They will pool their information and act in concert whenever appropriate.

In addition, the two societies strongly support the principle of open access to large facilities for all qualified researchers, regardless of their national origins.

E. Henley  
President, APS

M. Jacob  
President, EPS

THE WHITE HOUSE  
WASHINGTON

September 23, 1992

Dear Ernie:

Many thanks for sending me the joint statement by the Presidents of the American Physics Society and the European Physical Society regarding extensive collaboration on large physics projects. I am totally in accord with this statement and appreciate having it.

As you may be aware, at the first ministerial meeting of the OECD last May, I was successful in introducing many of these same ideas and in having the OECD agree to set up a megascience forum which is already in operation.

My intent here, to which the members of the OECD enthusiastically agreed, was to provide a forum so that one could really have a truly international approach to the establishment of large programs or large facilities. We envisaged that this would involve a series of meetings: first of the representatives of the international scientific community who would be asked to try to develop a consensus as to the questions that require answering if progress is to be made in the field. With those in hand one would then bring together instrumentation specialists who could address the question of what facilities of what particular specification would be required to provide answers to these important questions. Then finally, a much more political group of representatives would be brought together to discuss the matters of funding, the site, and operating support and the hope would be that all of this would be done before any actual decision would be reached on the particular device, where it was to be located or how precisely it would be operated.

In this respect it seems to me that the SSC and the LHC may well be the last of their breed and I very much appreciate the readiness of the APS and EPS to participate in the kind of discussion that I think will be undertaken by the OECD forum augmented by representatives from Eastern and Central Europe from the very beginning. At this most recent meeting Minister Saltykov, of the Soviet Union, was present at my formal request to the OECD. It was then agreed that representatives from Poland, Hungary, Rumania, and Bulgaria would also attend.



Meetings of working groups preparing for a full meeting of this forum are already underway and I anticipate the forum to be in full operation within the year.

Again many thanks for the statement and congratulations on it.

With warmest best wishes,

Sincerely yours,

A handwritten signature in dark ink, appearing to read 'D. Allan Bromley', written in a cursive style.

D. Allan Bromley  
The Assistant to the President  
for  
Science and Technology

Professor Ernest M. Henley  
President  
The American Physical Society  
335 East 45th Street  
New York, New York 10017

"Document Control"

TYPE: INFORMATION

DOCUMENT NUMBER: 9202488

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

\*\*\*\*\*

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TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/17/92

SUBJECT: ENCLOSED JOINT STATEMENT FROM THE AMERICAN PHYSICAL  
SOCIETY.

\*\*\*\*\*

DIRECTORATE  
ASSIGNED:

STAFF  
ASSIGNED:

ACTION  
REQUIRED:

STAFF  
ACTION:

\*\*\*\*\*

SENDER'S DUE DATE:

OSTP DUE DATE:  
DATE COMPLETED:

STAFF DUE DATE  
DATE COMPLETED/DEPT:

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COPIES TO: PHYSICAL SCIENCES  
D. Allan Bromley

\*\*\*\*\*

WHITE HOUSE TRACKING #:

CONTACT PERSON:  
PHONE:

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REMARKS:

OSTP RECEIVED: 08/27/92  
FILE: P-PHYSICAL SCIENCES

DEPT RECEIVED:

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# The American Physical Society

335 EAST 45th STREET, NEW YORK, NEW YORK 10017-3483 (212) 682-7341

2488

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92 AUG 27 8:32  
August 17, 1992

OSTP  
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**President**  
**Ernest M. Henley**  
*University of Washington*

**President-Elect**  
**Donald N. Langenberg**  
*University of Maryland  
System Administration*

**Vice-President**  
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**Office of Public Affairs**  
**Robert Park**  
*University of Maryland*

Dr. D. Allan Bromley  
Assistant to the President  
for Science & Technology  
The White House  
Washington, DC

*Allan*  
Dear Dr. Bromley:

I thought the enclosed joint statement from the American Physical Society and The European Physical Society might be of interest to you.

Sincerely,

*Ernest*  
Ernest M. Henley

EMH:cm

P.S.: Signatures on file

A Joint Statement by the Presidents of the American Physical Society  
and the European Physical Society

Regarding

EXTENSIVE COLLABORATION ON LARGE PHYSICS PROJECTS

As a result of a meeting of the presidents and other executives of The APS and EPS, we jointly issue the following statement.

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Therefore, the APS and EPS urge an international approach to the choice, design, construction, exploitation, and possibly even selection of future very large facilities for physics research. Such an approach should be developed to the fullest extent possible, in order to use the funds allocated for research in the most efficient and effective way. A collaborative approach, which is becoming a requirement for even medium size projects in Europe, should include the United States for very large projects. Ideally, such collaborations should extend to the entire industrialized world.

The APS and EPS stand ready to assist in the organization of forums, workshops, topical conferences as well as to communicate through their respective divisions, publications and networks. They will pool their information and act in concert whenever appropriate.

In addition, the two societies strongly support the principle of open access to large facilities for all qualified researchers, regardless of their national origins.

E. Henley  
President, APS

M. Jacob  
President, EPS



TYPE: ACTION

DOCUMENT NUMBER: 9202418

ORIGINATOR: 02

STATUS I

DIRECTORATE STATUS

\*\*\*\*\*

FROM: MASTROMARCO, Dan R.: ALLIANCE FOR COLLABORATIVE RESEARCH

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/13/92

SUBJECT: HE IS WRITING REGARDING A PROPOSAL TO EXPAND THE  
CURRENT INCREMENTAL RESEARCH AND EXPERIMENTATION TAX  
CREDIT TO REWARD COLLABORATIVE R&D.

\*\*\*\*\*

DIRECTORATE

STAFF

ASSIGNED: PHYSICAL SCIENCES

ASSIGNED:

→ Industrial Tech

ACTION  
REQUIRED: AS NECESSARY

STAFF  
ACTION:

\*\*\*\*\*

SENDER'S DUE DATE:

OSTP DUE DATE: 09/02/92

STAFF DUE DATE

DATE COMPLETED:

DATE COMPLETED/DEPT:

\*\*\*\*\*

COPIES TO: D. Allan Bromley

\*\*\*\*\*

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE:

EXT:

REMARKS:

Gene - I believe you can handle this  
better than I. Do you agree?

Karl  
8/24

OSTP RECEIVED: 08/19/92  
FILE: P-PHYSICAL SCIENCES

DEPT RECEIVED:

CENTRAL FILES:



EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY POLICY  
WASHINGTON, D.C. 20506

September 1, 1992

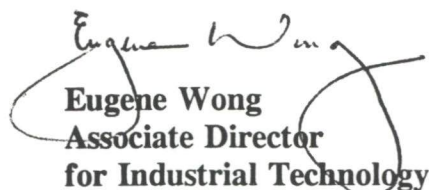
Dear Mr. Mastromarco:

Thank you for your letter of August 13, 1992, to Dr. Bromley.

You have raised an important point concerning the application of the R&E tax credit to collaborative projects. I think it is an excellent point that may have been overlooked, and I appreciate your raising it. We have occasions to provide input to the formulation of tax policies and your letter will be useful in that regard.

Thank you again for bringing this issue to our attention.

Sincerely yours,

  
Eugene Wong  
Associate Director  
for Industrial Technology

Mr. Dan R. Mastromarco  
Deputy Director  
Alliance for Collaborative Research  
1341 G Street, N.W.  
Suite 1100  
Washington, D.C. 20005



# Alliance for Collaborative Research

2418  
RECEIVED  
"Collaborating to Compete"  
52 AUG 19 12:08  
OSTP  
MAIL ROOM

August 13, 1992

Honorable Allan Bromley  
Assistant to the President for  
Science and Technology  
The White House  
Old Executive Office Bldg.  
17th Street and Pennsylvania Ave. N.W.  
Washington, D.C. 20506

Dear Dr. Bromley:

We would like to bring to your attention a proposal to expand the current incremental research and experimentation (R&D) tax credit to reward collaborative R&D.

Over the last several years, your Administration has engaged in perennial efforts to permanently extend that credit. Each year, these efforts have led only to temporary extension under force of budgetary constraint. As the Administration considers tax policies on innovation, we believe it is appropriate to advance the discussion by considering means to improve the efficiency of the credit scheme. Enclosed please find our proposal, together with explanatory documents. In sum, we believe this proposal would integrate with the current credit to:

- \* encourage new research within the U.S.;
- \* optimize the use of limited private and public R&D funds;
- \* close the gap between the societal benefit of R&D and the firm's cost when it is most difficult; and,
- \* help to ensure that the incremental credit applies most efficiently to firm-specific research.

As you well know, real economic growth is dependent on development and application of new science and technology. However, it has become increasingly clear that the R&D credit and other incentives

for R&D, although they lower the effective rates for some R&D performers, have not really met expectations. Even with these essential incentives, American R&D may be falling for the first time in 20 years and more research is being conducted overseas. When our industries have made the necessary expenditures, the commercialization of new technology and its assimilation into the manufacturing process are being accomplished more swiftly by our competitors -- better enabling them to develop and capture markets.

One significant problem is the failure of our current credit to accommodate developments in R&D spending. Our competitors have increasingly discovered that, while individual R&D is essential, collaborative R&D can provide a more efficient vehicle for research by enabling firms to combine resources and reduce redundancies. Collaboration also stimulates new research -- research that would not otherwise be conducted because it is too costly, too risky or too long-term to undertake individually. This, of course, is the underlying purpose behind the incremental structure of the section 41 credit. Instead of fostering collaborative R&D, current tax policy limits the credit to 65 percent of a firm's outside contract expenses.

Modification to the current R&D tax credit that would reward cooperative R&D at a level commensurate with its utility to industry, rather than discourage collaborative R&D, blends sound science and tax policy. A cooperative R&D tax credit is intended not only to help firms compete against one another, but to help entire industry sectors meet global competition.

We elicit your support in helping us accomplish this goal, and we would welcome the opportunity to discuss this proposal with you in greater detail.

Very Truly Yours,



Dan R. Mastromarco  
Deputy Director

Enclosure

cc: Joe Broz, Ph.D.



# Withdrawal/Redaction Sheet

## (George Bush Library)

| Document No.<br>and Type | Subject/Title of Document                  | Date   | Restriction | Class. |
|--------------------------|--------------------------------------------|--------|-------------|--------|
| 01. Proposal             | Proposal to Expand R&D Tax Credit (16 pp.) | 8/4/92 | (b)(4)      |        |

**Collection:**

**Record Group:** Bush Presidential Records  
**Office:** Science and Technology Policy, Office of (OSTP)  
**Series:** Bromley, D. Allan, Files  
**Subseries:** General Science Files  
**WHORM Cat.:**  
**File Location:** Physical Sciences: General (1) [4 of 7] [1992]

|                               |             |                             |           |
|-------------------------------|-------------|-----------------------------|-----------|
| <b>Date Closed:</b>           | 3/19/2010   | <b>OA/ID Number:</b>        | 62042-004 |
| <b>FOIA/SYS Case #:</b>       | 2005-0336-F | <b>Appeal Case #:</b>       |           |
| <b>Re-review Case #:</b>      |             | <b>Appeal Disposition:</b>  |           |
| <b>P-2/P-5 Review Case #:</b> |             | <b>Disposition Date:</b>    |           |
| <b>AR Case #:</b>             |             | <b>MR Case #:</b>           |           |
| <b>AR Disposition:</b>        |             | <b>MR Disposition:</b>      |           |
| <b>AR Disposition Date:</b>   |             | <b>MR Disposition Date:</b> |           |

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Presidential Records Act - [44 U.S.C. 2204(a)]

P-1 National Security Classified Information [(a)(1) of the PRA]  
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P-3 Release would violate a Federal statute [(a)(3) of the PRA]  
P-4 Release would disclose trade secrets or confidential commercial or financial information [(a)(4) of the PRA]  
P-5 Release would disclose confidential advice between the President and his advisors, or between such advisors [(a)(5) of the PRA]  
P-6 Release would constitute a clearly unwarranted invasion of personal privacy [(a)(6) of the PRA]

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(b)(3) Release would violate a Federal statute [(b)(3) of the FOIA]  
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(b)(6) Release would constitute a clearly unwarranted invasion of personal privacy [(b)(6) of the FOIA]  
(b)(7) Release would disclose information compiled for law enforcement purposes [(b)(7) of the FOIA]  
(b)(8) Release would disclose information concerning the regulation of financial institutions [(b)(8) of the FOIA]  
(b)(9) Release would disclose geological or geophysical information



"Document Control"

SEP 2 1 1992

TYPE: ACTION  
ORIGINATOR: 02

DOCUMENT NUMBER: 9202415  
DIRECTORATE STATUS

\*\*\*\*\*

FROM: NELSON, Gene A.: BIOPHYSICS COMPANY

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/11/92

SUBJECT: HE IS WRITING TO ASK DR. BROMLEY HIS PLANS FOR  
ASSISTING YOUNG U.S. PHD'S WITH EMPLOYMENT.

\*\*\*\*\*

DIRECTORATE  
ASSIGNED: PHYSICAL SCIENCES

STAFF  
ASSIGNED: *Lee Schwach*

*(NS - this letter is  
connected to another,  
from W. Deethan)*

ACTION  
REQUIRED: AS NECESSARY

STAFF  
ACTION:

\*\*\*\*\*

SENDER'S DUE DATE:  
OSTP DUE DATE: 09/30/92

STAFF DUE DATE  
DATE COMPLETED/DEPT: *11/18/92*

\*\*\*\*\*

COPIES TO: D. Allan Bromley

\*\*\*\*\*

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE:

EXT:

REMARKS: REASSIGNED TO PHYSICAL SCIENCES PER DR. WONG.

*Dr. Schroeder responded.*

OSTP RECEIVED: 08/19/92  
FILE: P-PHYSICAL SCIENCES

DEPT RECEIVED:

CENTRAL FILES:





TYPE: ACTION

ORIGINATOR: 02

STATUS I

DOCUMENT NUMBER: 9202415

DIRECTORATE STATUS

\*\*\*\*\*

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TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/11/92

SUBJECT: HE IS WRITING TO ASK DR. BROMLEY HIS PLANS FOR  
ASSISTING YOUNG U.S. PHD'S WITH EMPLOYMENT.

\*\*\*\*\*

DIRECTORATE

ASSIGNED: INDUSTRIAL

STAFF

ASSIGNED:

→ Phy. Sc. Eng.

ACTION

REQUIRED: AS NECESSARY

STAFF

ACTION:

\*\*\*\*\*

SENDER'S DUE DATE:

OSTP DUE DATE: 09/01/92

STAFF DUE DATE

DATE COMPLETED:

DATE COMPLETED/DEPT:

\*\*\*\*\*

COPIES TO: D. Allan Bromley

\*\*\*\*\*

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

PHONE:

EXT:

OSTP RECEIVED: 08/19/92

DEPT RECEIVED:

FILE: P-INDUSTRIAL-ECONOMIC COMPETITIVENESS

CENTRAL FILES:

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92 AUG 19 11:52  
MAIL ROOM

Gene A. Nelson, Ph.D  
7374 Brookside Parkway  
Cleveland, OH 44130-5468  
(216) 891 - 8809 [Voice/FAX]  
Internet e-mail: au195@Cleveland.Freenet.edu

August 11, 1992

D. Allan Bromley Ph.D. - Director OSTP  
The Assistant to the President for Science & Technology  
Executive Office Building  
Washington DC 20506  
(202) 456 - 7116

Dear Dr. Bromley:

Today I received a copy of a letter dated July 29, 1992 that you sent to Ms. Cynthia Walsh of Albuquerque, NM. You outlined the rationale for providing \$35 million to fund Soviet science centers in Moscow and Kiev, and the federal role in providing additional funds to support ...a great many young Soviet scientists who are in desperate plights lacking not only jobs also even the basic necessities of life....

I have briefly spoken to the President in person, when he visited Cleveland on May 21, 1992, and have also corresponded with him and staffers about the fact that this is also a problem in the United States that demands immediate attention.

There is a U.S. R&D funding crisis that is affecting thousands of young scientists placing a significant number of them in the same challenging situations as their Soviet counterparts.

With the Wolpe hearings on April 8, 1992 written up in SCIENCE Vol 256, (10 April 1992 p. 172) the truth of the poor employment situation for young American Ph.D. scientists began to be acknowledged. Recognizing the dearth of up-to-date published statistics regarding unemployment and underemployment of young scientists, I have initiated a survey. This survey has been publicized via the Young Scientist's Network (YSN), ELECTRONIC ENGINEERING TIMES, and The American Association of Concerned Engineers. Preliminary data is available and points to significant problems, both in unemployment and underemployment.

Prompt action such as establishing a special program to provide thousands of research positions, both in industry and academia is necessary in order to make positive use of today's Ph.D.s and to also signal students "in the pipeline" that the United States values the direct and indirect investments that science students make in earning a Ph.D. in science. Possible funding mechanisms include special federal appropriations and tax incentives for the private sector.

I am an unemployed young Ph.D. scientist who is active in an electronic network called "The Young Scientist's Network" (YSN). [The YSN was described in a SCIENCE article, Vol. 256 (1 May 1992 p. 606)].



My research demonstrates that R&D underfunding has been a long-term problem in the United States that has recently become much worse.

I have made significant investments in preparing to become a scientist, and am well qualified. In summary, I was a finalist at the International Science Fair (Fort Worth, TX - 1969) and earned my B.S. in 1973 from Harvey Mudd College (HMC) in Claremont, CA. HMC has been ranked as the "best specialty engineering college in America" by U.S. News & World Report for the past three years. I have worked at NASA-JPL in Pasadena, CA.

I earned my doctorate in Biophysics from SUNY at Buffalo in 1984. With student loans, I could not afford the "postdoc" route and have worked in the clinical diagnostics industry. Since 1985, I have endured three terminations and over three years of no salary stemming from technical programs being ended and from the loss of R&D funds caused by leveraged buyout. With a dearth of opportunities for Ph.D.s in Cleveland, Ohio, I attempted to start a technology intensive business without success.

My wife will also be facing the same bleak situation shortly. She is completing her Ph.D. in Biochemistry from the University of Akron.

I look forward to hearing your action plan about this situation.

Sincerely,  
Gene A. Nelson, Ph.D.

File: Bromley.txt

# Biophysics

C O M P A N Y

7374 Brookside Parkway, Cleveland, OH 44130-5468 (216) 891 - 8809 [Voice/FAX]

Gene A. Nelson, Ph.D

May 21, 1992

The Honorable George Herbert Walker Bush  
President of the United States  
1600 Pennsylvania Avenue  
Washington DC 20500

COPY

AUG 11 1992

Dear President Bush:

A couple of hours ago I shook your hand while you were visiting with some people in Parma, Ohio, after delivering a speech there. I urged that you "help high technology"... you quipped back "The economy is getting better". I showed you the pen - based computer that I have been working on for the past two and a quarter years and referenced the written and faxed communications that I have had with you over the past year. I hope that this dialogue can be extended since I see the success of high technology in the United States as being very tightly linked to a real improvement in the economy.

Simply expressed, this technology has the capability of substantially reducing the \$200 billion that this country presently spends on health care administration. We pay tremendous sums to have people move mountains of paperwork that does not improve the quality of health care. Pen based computing can eliminate the mountains of paperwork! The technology can also improve the quality of the delivered health care services.

This technology also illustrates the old adage that "you have to spend money to save money". I am asking for the federal government to help to provide the spark that will lead to the private sector adopting this new way of doing things. I have raised these concerns in speeches at national meetings in Baltimore and New York City, and it was one of the planks of a forum that I recently presented at the Cleveland City Club titled "Science and Technology - The Key to Cleveland's Economic Future". I will be making this point again when I speak in Los Angeles, California at the beginning of June.

Kindly refer to my letter of September 11, 1991 and my lengthy correspondence with NIH director Dr. Bernadine Healy for additional details. I look forward to talking about this policy area with you in person.

Sincerely,  
Dr. Gene A. Nelson, President  
Biophysics Company, An Ohio Corporation

/gn File: Bush1.txt

Biophysics  
C O M P A N Y

7374 Brookside Parkway (216) 891 - 8809  
Cleveland, OH 44130-5468 [Voice/Data/FAX]

Pen - Based Computing · Systems Integration  
Internet: au195@Cleveland.Freenet.edu

Gene A. Nelson, Ph.D., Senior Consultant



EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY POLICY  
WASHINGTON, D.C. 20506

November 18, 1992

Dear Dr. Nelson:

Dr. Bromley has asked me to respond to your thoughtful letter concerning the difficulties experienced by highly trained young scientists and engineers, like yourself, who are seeking employment commensurate with their training. After the years of effort and sacrifice which go into achieving an advanced degree, it is obviously a "bitter pill" not to be able to find work in either one's immediate area of expertise or in an associated field. I can remember a similar period occurring in the late 1960's and into the 1970's when the explosive growth experienced in U.S. science, as a general response to the cold war and Sputnik, started to taper off dramatically. The result was an overproduction of graduate students with a resultant very tight job market. Many of the sentiments that you expressed in your letter, were prevalent then as well.

Today's climate is somewhat similar, but, it is also different in some important ways. While our nation today faces substantial budgetary strigencies at federal, state and private levels, funding for R&D is still substantial. For example, in the President's fiscal 1993 budget submission to Congress, over \$72B was requested for civilian and defense R&D--which approximately doubles when you add in R&D carried out by the private sector. This trend, toward enhancing R&D efforts, has been our goal for a number of years, and hopefully will continue as such in the future. While Congress has been generally supportive of this goal, it is also true that the appropriated dollars have generally fallen far short of expectations. To further complicate this, Congress has often taken to "ear-marking" pet projects, further diluting the funds available for supporting R&D requests.

Another aspect, present today, is represented by the end of the cold war--which should free up valuable resources. But, under present budget agreements, a "cap" on discretionary spending exists. However, in fiscal 1994 the so-called "fire-wall" between civilian and defense spending is to come down. This will allow transfer of funds across this boundary. Such funds will be heavily contested for by many elements of our economy--and hard work needs to be done to capture some of these funds for R&D activities. Also, it must be remembered that defense expenditures support a host of scientists and engineers--reducing defense spending will not necessarily improve the overall scientist and engineer employment situation. Increased support for the R&D community is not simply a job creation mechanism but is central to the nation's overall economical well-being. It is vitally clear that our economic competitiveness and position in the international community requires that we produce a balance of technically competent scientists, engineers, and technicians in the areas of basic and applied

Page 2

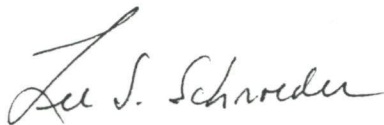
research. In order to accomplish this, renewed attention must also be paid to our educational infrastructure, at all levels.

In your letter you specifically suggest two mechanisms that could be used to create research positions in academia and industry; namely, through special federal appropriations and tax incentives for the private sector. I would encourage you to take every opportunity to communicate your ideas along these lines to Congress and their staff.

At the same time I should note that there will never be sufficient funding to permit the exploration of every good research idea. The very nature of research is that every research result generates a shower of new questions, only some of which can or need be answered. It may be paradoxical--but it is true--that as our national basic research enterprise becomes ever more successful, it will generate increasing numbers of unanswered questions and, possibly, of scientists competing for funds to answer these questions.

It is clear from your letter that you have not given up on putting your education and research background to work. I wish both you and your wife good luck in these endeavors and every success in pursuing your professional goals.

Sincerely,

A handwritten signature in cursive script, reading "Lee S. Schroeder". The signature is written in dark ink and is positioned above the printed name.

Lee S. Schroeder  
Assistant Director for  
Physical Sciences and Engineering

Dr. Gene A. Nelson  
7374 Brookside Parkway  
Cleveland, OH 44130-5468



"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9202415  
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS  
\*\*\*\*\*

FROM: NELSON, Gene A.: BIOPHYSICS COMPANY

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/11/92

SUBJECT: HE IS WRITING TO ASK DR. BROMLEY HIS PLANS FOR  
ASSISTING YOUNG U.S. PHD'S WITH EMPLOYMENT.

\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: PHYSICAL SCIENCES ASSIGNED:

ACTION STAFF  
REQUIRED: AS NECESSARY ACTION:

\*\*\*\*\*  
SENDER'S DUE DATE:  
OSTP DUE DATE: 09/30/92 STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT:

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COPIES TO: D. Allan Bromley

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WHITE HOUSE TRACKING #: CONTACT PERSON:  
PHONE: EXT:  
REMARKS: REASSIGNED TO PHYSICAL SCIENCES PER DR. WONG.

OSTP RECEIVED: 08/19/92 DEPT RECEIVED:  
FILE: P-PHYSICAL SCIENCES

CENTRAL FILES:

TYPE: ACTION  
ORIGINATOR: 02

DOCUMENT NUMBER: 9202415  
DIRECTORATE STATUS

STATUS I

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TO: DR. D.A. BROMLEY

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CORRESPONDENCE: 08/11/92

SUBJECT: HE IS WRITING TO ASK DR. BROMLEY HIS PLANS FOR  
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\*\*\*\*\*

DIRECTORATE  
ASSIGNED: INDUSTRIAL STAFF  
ASSIGNED:

→ Phys. Sc. Eng.

ACTION  
REQUIRED: AS NECESSARY STAFF  
ACTION:

\*\*\*\*\*

SENDER'S DUE DATE:  
OSTP DUE DATE: 09/01/92 STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT:

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COPIES TO: D. Allan Bromley

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WHITE HOUSE TRACKING #: CONTACT PERSON:  
PHONE: EXT:  
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OSTP RECEIVED: 08/19/92 DEPT RECEIVED:  
FILE: P-INDUSTRIAL-ECONOMIC COMPETITIVENESS

CENTRAL FILES:



TYPE: ACTION

DOCUMENT NUMBER: 9202415

ORIGINATOR: 02

STATUS I

DIRECTORATE STATUS

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TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/11/92

SUBJECT: HE IS WRITING TO ASK DR. BROMLEY HIS PLANS FOR  
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\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: INDUSTRIAL ASSIGNED:

ACTION STAFF  
REQUIRED: AS NECESSARY ACTION:

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SENDER'S DUE DATE:  
OSTP DUE DATE: 09/01/92 STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT:

\*\*\*\*\*  
COPIES TO: D. Allan Bromley

\*\*\*\*\*  
WHITE HOUSE TRACKING #: CONTACT PERSON:  
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REMARKS:

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FILE: P-INDUSTRIAL-ECONOMIC COMPETITIVENESS  
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MAIL ROOM

Gene A. Nelson, Ph.D  
7374 Brookside Parkway  
Cleveland, OH 44130-5468  
(216) 891 - 8809 [Voice/FAX]  
Internet e-mail: au195@Cleveland.Freenet.edu

August 11, 1992

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The Assistant to the President for Science & Technology  
Executive Office Building  
Washington DC 20506  
(202) 456 - 7116

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Sincerely,  
Gene A. Nelson, Ph.D.

File: Bromley.txt

# Biophysics

C O M P A N Y

7374 Brookside Parkway, Cleveland, OH 44130-5468 (216) 891 - 8809 [Voice/FAX]

Gene A. Nelson, Ph.D

May 21, 1992

The Honorable George Herbert Walker Bush  
President of the United States  
1600 Pennsylvania Avenue  
Washington DC 20500

COPY

AUG 11 1992

Dear President Bush:

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Sincerely,  
Dr. Gene A. Nelson, President  
Biophysics Company, An Ohio Corporation

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## A clash of values

*Bush, Clinton take different roads toward preserving America's family values*

By MICHELLE RUESS

PLAIN DEALER REPORTER

### CLEVELAND

**A** mid nationwide controversy over just what constitutes "family values," Arkansas Gov. Bill Clinton outlined his agenda for families yesterday, including tax breaks, welfare reform and sex education.

Clinton, who has nearly sewn up the Democratic presidential nomination, spent the day here addressing a City Club luncheon and visiting a family education center.

He dismissed recent comments from President Bush blaming the Los Angeles riots on failed social policies of the 1960s and a collapse of family values, as well as Vice President Dan Quayle's remarks criticizing an unmarried television character's pregnancy.

"It isn't enough for America's leaders to blame past social programs or current TV programs," Clinton said, earning a chuckle from the audience. "It isn't enough for America to change channels. We need to change course."

Asked how he would combat the "rise of racism," Clinton said he would work to bring the advantages of free enterprise to low-income households through a network of banks required to target



PD/CURT CHANDLER

By STEVE LUTTEN  
POLITICS WRITER

**P**resident Bill Clinton to let Bill Clinton's values all to him in Cleveland.

While Clinton unveils a package of proposals aimed at American families, his commitment to the issue. And Bush's "Murphy Brown" "We have got to strengthen the Bush said.

"Barbara Bush president said capacity \$1,000-per-plate him in the ball Tower City Pl happens in you more important pens in the White Bush quipped

ments about "nothing," to Brown," a referee ident Dan Quay day criticizing gram for col demise of the ues by glory erhood. Bush decline



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TYPE: ACTION DOCUMENT NUMBER: 9202398  
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS  
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FROM: ARIMA, Akito: UNIVERSITY OF TOKYO

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/11/92

SUBJECT: HE IS WRITING REGARDING SUPPORT FOR THE SSC.

\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: PHYSICAL SCIENCES ASSIGNED:

ACTION  
REQUIRED: FOR DAB'S SIGNATURE/  
IF NECESSARY STAFF  
ACTION:

*No resp needed. WSE*

\*\*\*\*\*  
SENDER'S DUE DATE:  
OSTP DUE DATE: 09/01/92 STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT: 8/24/92

\*\*\*\*\*  
COPIES TO: D. Allan Bromley  
INTERNATIONAL/POLICY

\*\*\*\*\*  
WHITE HOUSE TRACKING #: CONTACT PERSON:  
REMARKS: PHONE: EXT:

OSTP RECEIVED: 08/18/92 DEPT RECEIVED:  
FILE: P-PHYSICAL SCIENCES  
CENTRAL FILES:







## THE UNIVERSITY OF TOKYO

OFFICE OF THE PRESIDENT

Hongo, Bunkyo-ku, Tokyo 113, Japan

RECEIVED

Telephone: +81(3)3812-2111  
Cable: TOKUNIV

92 AUG 18 PM 12:35

OSTP  
MAIL ROOM

11 August 1992

Dr. Allan Bromley  
The Assistant to the President  
for Science and Technology  
The White House  
Washington, D.C.

Dear Allan,

Thank you very much for your letter. I'm happy that you seem to be able to get support in the Senate concerning the budget for the SSC.

The financial situation of the national universities in Japan has only slightly improved. Politicians, the Japanese government and business leaders continue to recognize the serious problems we have in the universities, and are trying to improve them.

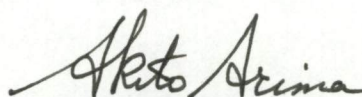
For example, committees from the government and the Federation of Economic Organizations have proposed that the Japanese government double the budgets for basic science and national universities.

If this is achieved, we have no objection to supporting SSC. As you suggested, our universities will be improved and SSC will be supported. I hope this will happen.

I look forward to discussing future projects of mutual cooperation with you. I hope to see you again soon.

Best regards.

Sincerely yours,

  
Akito Arima

"Document Control"

TYPE: INFORMATION

DOCUMENT NUMBER: 9202429

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

\*\*\*\*\*

FROM: KELLY, D.A.: SPACE ENERGY ASSOCIATION-SEA/US

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 08/01/92

SUBJECT: COPY OF THE SPACE ENERGY NEWSLETTER.

\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: ASSIGNED:

ACTION STAFF  
REQUIRED: ACTION:

\*\*\*\*\*  
SENDER'S DUE DATE:  
OSTP DUE DATE: STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT:

\*\*\*\*\*  
COPIES TO: PHYSICAL SCIENCES  
D. Allan Bromley

\*\*\*\*\*  
WHITE HOUSE TRACKING #: CONTACT PERSON:  
PHONE: EXT:

REMARKS:

OSTP RECEIVED: 08/19/92  
FILE: P-PHYSICAL SCIENCES

DEPT RECEIVED:

CENTRAL FILES:



# SPACE ENERGY ASSOCIATION-SEA/US

Alternate Energy Systems

Dr. D.Allan Bromley  
Presidential Science Advisor  
The White House Office  
1600 Pennsylvania Avenue  
Washington, D.C., 20500

2429  
P.O. Box 11422  
Clearwater, FL 34616  
(813) 442-3923  
FAX (813) 446-5290

August 1, 1992

Dear Dr. Bromley:

We are enclosing a copy of our latest, July, S.E.A. newsletter for your review and consideration, at this time.

We believe that several of the advanced energy projects briefly described in this N/L will serve as the forerunners of successful systems for our future energy destiny.

While most of these energy systems will probably fall by the wayside for various reasons, it is quite probable that one or possibly two of them will survive through the rigorous testing phase that all such advanced energy projects must pass if they are to survive and move forward into the production stage of progress.

Now that the U.S. has gone absolutely "BONKERS" over the construction of the superconducting "Super-Klunker", we will be doing everything possible to pass all of our information and test data on these advanced energy systems to the Germans, Japanese, French, Brits, Koreans and others who will listen to us about the real promise of these advanced energy systems!!

It has become quite clear to us that this country has no interest in setting logical scientific project priorities, and is currently swayed by eco/political interests- alone!!

Since we are now bound and determined to get this new energy technology accepted on a world-wide basis, we will be going where we have to go, and doing what we have to do to accomplish this end result!

It is too bad that most people don't truly understand the true nature of such grandiose projects such as the S.S.C- SuperKlunker, in that they all eventually become "welfare" of the scientific priesthood, and nothing more than this!!!

If you check the operating records of such governmental scientific installations such as FermiLab, Chicago, Brookhaven Nat. Labs, of N.Y. Los Alamos, N.M., and such- government units you will find that they become country clubs for the PHD elite, and do not produce anything of significant value to the public which support them!

Although N.A.S.A.'s record of producing consumer product "spin-offs" has been only modest, it far-and-away exceeds all such 'spinoffs' provided by all these government facilities put together!

Unless there is a thorough and complete house-cleaning and reorganization within the D.O.E., D.O.D. and the various quasi-governmental scientific groups, it is quite unlikely that we will have any further dealings with them, and U.S. industry!

Sincerely,

*D.A. Kelly*  
D.A. Kelly

encl: (3)





# SPACE ENERGY NEWSLETTER

Quarterly—Newsletter

JULY, 1992

VOLUME III, NO.II

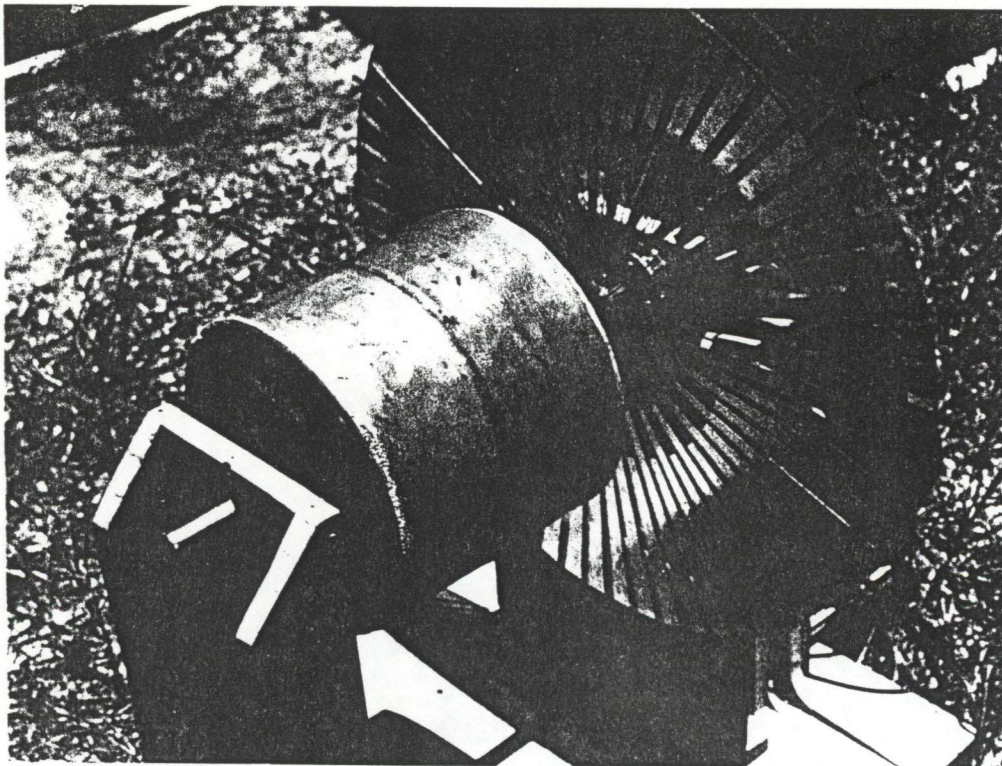
Editors: Donald A. Kelly & Michael Marino

The space Energy Association is dedicated to the pioneering work of several scientists and inventors, including Nikola Tesla, Viktor Schauberger, T. Henry Moray, T.T. Brown, Alfred Hubbard, T.J.J. See, Erwin Saxi, Hans Coler and others.

## THE DUAL MODE FREE ENERGY GENERATOR

Comprising :

- 1) a 55 pound "N" Rotor, faced with neodymium permanent magnets
- 2) twin Wimhurst type Electrostatic discs, through shaft design.





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TYPE: INFORMATION DOCUMENT NUMBER: 9202602  
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS  
\*\*\*\*\*

FROM: CANTLON, JOHN E.: NUCLEAR WASTE TECHNICAL REVIEW BOARD

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 07/02/92

SUBJECT: LETTER TO FRANK PRESS REQUESTING ASSISTANCE IN  
FILLING ONE OF THE VACANCIES ON THE NUCLEAR WASTE  
TECHNICAL REVIEW BOARD.

\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: ASSIGNED:

ACTION STAFF  
REQUIRED: ACTION:

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SENDER'S DUE DATE:  
OSTP DUE DATE: STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT:

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COPIES TO: D. Allan Bromley  
LIFE SCIENCES  
PHYSICAL SCIENCES

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WHITE HOUSE TRACKING #: CONTACT PERSON:  
REMARKS: PHONE: EXT:

OSTP RECEIVED: 07/15/92 DEPT RECEIVED:  
FILE: P-PS-NUCLEAR WASTE  
CENTRAL FILES:



2602

UNITED STATES  
NUCLEAR WASTE TECHNICAL REVIEW BOARD

1100 Wilson Boulevard, Suite 910  
Arlington, VA 22209

RECEIVED

12 15 10:23

July 2, 1992

OSTP  
MAIL ROOM

Dr. Frank Press  
President  
National Academy of Sciences  
2101 Constitution Avenue, NW  
Washington, DC 20418

Dear Dr. Press: *Frank*

Through your much appreciated efforts and those of the White House Presidential Personnel Office, the Nuclear Waste Technical Review Board (the Board) is now approaching its full complement of eleven members. I would, however, like to request your assistance in filling the one remaining vacancy. This person would have expertise in the areas of radiobiology and health physics.

The vacancy in this particularly important area was created by the resignation of Dr. Melvin W. Carter on August 20, 1991. At that time, the Board asked the National Academy of Sciences (NAS) to submit nominations to the White House. To the best of our knowledge, your office submitted a list to the White House in September 1991. However, we have been advised by the Presidential Personnel Office that for unknown reasons, a nomination is not pending at this time.

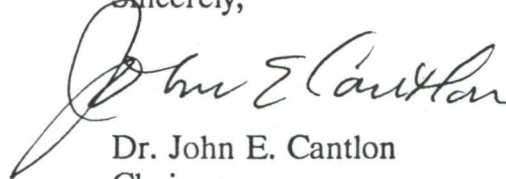
Therefore, I would like to request that the NAS again submit a list of nominees to the White House with backgrounds in the radiobiology and health physics area. According to the Nuclear Waste Policy Amendments Act of 1987 (NWPAA), candidates should be eminent in their field and selected solely on the basis of established records of distinguished service. For your convenience, I have enclosed a summary of those qualifications required of nominees for appointment to the Board. This summary is based on requirements of the NWPAA and on the Board's conflict-of-interest policy, which was developed in coordination with the Office of Government Ethics.



I am forwarding a copy of this letter to Ms. Constance Horner, Director of Presidential Personnel, and to Dr. Allan Bromley, Science Advisor to the President. Perhaps their assistance will be helpful in expediting the appointment process.

I greatly appreciate your attention to this matter. If you have any questions, please call Dr. William D. Barnard, the Board's Executive Director.

Sincerely,

A handwritten signature in dark ink, appearing to read "John E. Cantlon", with a large, stylized initial "J" and "C".

Dr. John E. Cantlon  
Chairman

Enclosures

cc:

Dr. Allan Bromley

Ms. Constance Horner

Dr. Peter Myers

AL AUG 7 1992

"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9202256  
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS  
\*\*\*\*\*

FROM: SEMKOW, Thomas: STATE OF NEW YORK, DEPT. OF HEALTH

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 07/31/92

SUBJECT: HE IS WRITING WITH HIS VIEWS ON SMALL SCIENCE VERSUS  
BIG SCIENCE.

\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: PHYSICAL SCIENCES ASSIGNED:

ACTION STAFF  
REQUIRED: AS NECESSARY ACTION:

\*\*\*\*\*  
SENDER'S DUE DATE:  
OSTP DUE DATE: 08/20/92 STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT: 9/21/92

\*\*\*\*\*  
COPIES TO: D. Allan Bromley  
LIFE SCIENCES

\*\*\*\*\*  
WHITE HOUSE TRACKING #: CONTACT PERSON:  
PHONE: EXT:  
REMARKS: Dr. Ent responded.

OSTP RECEIVED: 08/06/92 DEPT RECEIVED:  
FILE: P-PHYSICAL SCIENCES  
CENTRAL FILES:





EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY POLICY  
WASHINGTON, D.C. 20506

September 21, 1992

Dear Dr. Semkow:

I am writing in response to your letter of July 31 to Dr. Bromley, concerning the Superconducting Supercollider, the Space Station, the Human Genome study, and other large projects.

One of the principal challenges facing us in the Office of Science and Technology Policy is to strike appropriate balances across the range of S&T activities supported by the Federal government. We recognize that these balances necessarily involve a variety of different considerations.

For example, the Space Station is not primarily funded as a science project. Its primary purpose is to serve as a laboratory for addressing a number of key issues--including the one you note--involved in manned space exploration.

The SSC, on the other hand, is a purely scientific project. It will enable the essential next step in the study of particle physics, and will be used by thousands of individual faculty members, post-docs and students.

What these very different projects share is their importance as facilities that will enable the nation to make historic advances--into space in the former case, and into a deeper understanding of the fundamental nature of matter in the latter.

Page 2

**Dr. Bromley and I support these projects. The cancellation of the large scientific projects would not provide funding adequate to support what you request: a situation in which every proposal that has scientific merit gets funded at least at modest level.**

**We in OSTP have worked hard to increase Federal funding for individual investigators, in the budgets submitted by the President to the Congress. As you correctly point out, investigator-initiated research provides the intellectual core that supports our acknowledged excellence in science, and we are committed, above all, to preserving and strengthening it.**

Sincerely,

A handwritten signature in black ink, appearing to read "Karl A. Erb". The signature is fluid and cursive, with the first name "Karl" being more prominent and the last name "Erb" following in a similar style.

**Karl A. Erb  
Associate Director  
for Physical Sciences and Engineering**

**Dr. Thomas Semkow  
State of New York  
Department of Health  
The Governor Nelson A. Rockefeller  
Empire State Plaza  
P.O. Box 509  
Albany, NY 12201-0509**





# STATE OF NEW YORK DEPARTMENT OF HEALTH

The Governor Nelson A. Rockefeller Empire State Plaza P.O. Box 509 Albany, New York 12201-0509

Mark R. Chassin, M.D., M.P.P., M.P.H.  
Commissioner

92 AUG 6 P 2:11

OSTF  
MAIL ROOM

July 31, 1992

OFFICE OF PUBLIC HEALTH  
Sue Kelly  
Executive Deputy Director

WADSWORTH CENTER  
FOR LABORATORIES  
AND RESEARCH  
Lawrence S. Sturman, M.D., Ph.D.  
Acting Director

Dr. D. Allan Bromley, Director  
Office of Science and Technology Policy  
Old Executive Office Bldg.  
17th St. and Pennsylvania Ave. N.W.  
Washington, D.C. 20500

Dear Dr. Bromley:

I would like to contribute my modest voice to an ongoing debate on small vs. big science. As discussed below, I believe that many of the big science projects are not useful and I urge you to oppose them. I believe that it is a citizen's duty to contribute to the debate. As a practicing research scientist myself I have an additional advantage of experience with both small science (low-energy nuclear science) as well as big (high-energy nuclear science). In addition, I have recently experienced rejection of six in a row research proposals with considerable amount of arrogance expressed by the federal agencies that handled my proposals.

**Supercollider.** The project was originally conceived by a few powerful high-energy physicists whose pride was hurt by the discoveries of W and Z bosons in Europe in early 80s. This far too expensive project will serve a small number of very smart people. It has poor scientific program. Since 5 out of the 6 quarks have already been discovered, the projected discovery of the top quark is in the category of cleaning out the dirt. The project operates on the basis "if you do not know what to do, increase the energy". The supposed spinoff in terms of fast electronics would be better done by establishing a National Laboratory for Industrial Electronics that could create HDTV, improve supercomputers and consumer electronics.

**Space Station.** I am tired of hearing about crystal growth and spider behavior in space. We could learn from the Soviet experience: A human being cannot even walk after several months aboard the space station. This idea far exceeds our budget constraints. It is better replaced with small, relatively inexpensive unmanned missions which have been endorsed by the American Geophysical Union and American Physical Society.

**Human Genome.** The megalomania has not spared the life sciences. I would guess that at least 99 % of human gene is correct or we would be dwarfed by genetic mutations. It thus does not make any sense to map the whole human gene. Instead, it would be useful to monitor only the small sections of the gene that are associated with genetic diseases. Traditionally, this has been performed on a small science basis.

**Star Wars.** It has been known for a long time among the experts that this project is not technically feasible. With the disintegration of the Soviet Union the project lost even its political merit. I find it ludicrous that the well known guards of the old order and their proteges have been recently trying to convince us that the project may save us from meteoritic impact!

All these big-science projects have a lot in common. They are usually proposed by a few powerful people who bypass all scientific reviews and have direct access to as well as a support of political establishment. A lobbying by the associated manufacturing industries close the circle. These projects have to be considered as a kind of high-tech welfare for a small group of highly trained people.

I think that we spend enough federal funds on research. The crisis in our science is caused by the distribution of funds. With large projects taking more and more funds, we observe a collapse of investigator-initiated science and denial of individual creativity. However, it is the small science that leads to exciting, useful, and creative results. Let me just mention the recent discoveries of high-temperature superconductivity, scanning-tunneling microscope, or the buckminsterfullerene molecule, to name a few.

We can improve our science system in a number of ways. A cancellation of the big projects would provide a much needed boost to small science. We also need to decrease an education at Ph.D. level and make sure that those who graduate are first quality. Finally, we have to replace an arrogance and corruption of program directors at federal funding agencies with a fair system in which every proposal that has scientific merit gets funded at least at modest level.

I would like to conclude this letter by urging you once again to oppose the Supercollider as well as other big scientific projects. Thank you very much for your time.

Best regards.

Sincerely yours,

*Thomas Semkow*

Thomas Semkow  
Research Scientist  
and Assistant Professor



"Document Control"

TYPE: ACTION  
ORIGINATOR: 02

DOCUMENT NUMBER: 9202663  
DIRECTORATE STATUS

\*\*\*\*\*

FROM: BISHOP, Rebecca

SEP 10 1992

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 07/30/92

SUBJECT: SHE IS WRITING REGARDING THE SEIZURE OF THE  
TYRANNOSAURUS REX REMAINS FROM THE BLACK HILLS  
INSTITUTE.

\*\*\*\*\*

DIRECTORATE  
ASSIGNED: PHYSICAL SCIENCES

STAFF  
ASSIGNED:

*DMC* - draft  
response for  
KBE signature -

ACTION  
REQUIRED: AS NECESSARY

STAFF  
ACTION:

\*\*\*\*\*

SENDER'S DUE DATE:  
OSTP DUE DATE: 09/23/92  
DATE COMPLETED:

STAFF DUE DATE: 9/10/92  
DATE COMPLETED/DEPT: 9/30/92

\*\*\*\*\*

COPIES TO: D. Allan Bromley

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WHITE HOUSE TRACKING #:

CONTACT PERSON:  
PHONE:

EXT:

REMARKS: *From letter #2*

OSTP RECEIVED: 08/14/92  
FILE: P-PHYSICAL SCIENCES

DEPT RECEIVED:

CENTRAL FILES:



EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY POLICY  
WASHINGTON, D.C. 20506

September 16, 1992

Dear Ms. Bishop:

Thank you for your recent letter to Dr. Bromley regarding the recent seizure of the Tyrannosaurus rex skeleton from the Black Hills Institute of Geological Research. I am sure you realize that Dr. Bromley cannot get involved in a criminal investigation, but I thought you would like to know that we are inquiring as to the storage conditions and treatment that the skeleton receives while in the custody of the FBI. We will try to ensure that the scientific value of the remains are preserved while the courts decide the legal issues involved. Thank you for bringing this issue to Dr. Bromley's attention.

Sincerely yours,



David C. Cranmer  
Fellow

Ms. Rebecca Bishop  
P. O. Box 384  
Mead, WA 99021



EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF SCIENCE AND TECHNOLOGY POLICY  
WASHINGTON, D.C. 20506

September 30, 1992

Dear Ms. Bishop:

I am writing to update you on the status of the Tyrannosaurus rex skeleton which you inquired about earlier.

The Office of Science and Technology Policy advises the President and the Federal agencies on issues pertaining to science and technology. As such, our concern, initially, was that the scientific value of the skeleton might be diminished as a result of the FBI action. We have made a number of inquiries regarding the storage and care of the skeleton, and have been provided with information to the effect that, with the care it is now being given, the fossil is unlikely to suffer irreparable damage in the future.

Our office is not in a position to comment on the legal and other non-science issues you raised in your letter.

Thank you for your interest.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Karl A. Erb', written in a cursive style.

Karl A. Erb  
Associate Director  
for Physical Sciences and Engineering

Ms. Rebecca Bishop  
P. O. Box 384  
Mead, WA 99021

KLB  
2663

D. Allan Bromley  
Assistant to the President  
Office of Science and Technology  
Executive Office Building  
Washington, DC 20240

July 30, 1992

Dear Sir:

I am astonished at the stories I have read about our United States government using the F B I and the South Dakota National Guard to attack Black Hills Institute of Geological Research in Hill City, S.D., to confiscate a fossil! It is deplorable that a law-abiding business can be destroyed by the very institution that has promised to protect and preserve it. And now the fossil is withheld from research and the public alike!

Would you be able to have your staff look into this matter? Many people are upset at the Search and Seizure activities because they are often used improperly and instead of stopping law-breakers, they are used politically to destroy law-abiding citizens. Please help the government rectify the situation in Hill City and help return the Tyrannosaurus Rex "Sue" to the researchers who found her and the public who have learned so much by being able to see her at Black Hills Institute of Geological Research.

Sincerely,

*Rebecca M. Bishop*  
P.O. Box 384  
Mead, WA 99021

to: President George Bush  
William Barr  
Harlen Watson  
Tom Foley



AUG 7 1992

"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9202246  
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS  
\*\*\*\*\*

FROM: MKRTCHYAN, R.: YEREVAN PHYSICS INSTITUTE

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 07/28/92

SUBJECT: HE IS WRITING REGARDING THE SSC FUNDING PROBLEM.

\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: PHYSICAL SCIENCES ASSIGNED: Lee Schroeder

ACTION  
REQUIRED: FOR DAB'S SIGNATURE

STAFF  
ACTION: 1st Common letter (Cashmore, Mkrtchyan, Dani) thanking them for supporting SSC + House/Senate funding for FY93 9/28/92

\*\*\*\*\*  
SENDER'S DUE DATE:  
OSTP DUE DATE: 08/20/92 STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT: 9/28/92

\*\*\*\*\*  
COPIES TO: D. Allan Bromley  
INTERNATIONAL/POLICY

\*\*\*\*\*  
WHITE HOUSE TRACKING #: CONTACT PERSON:  
REMARKS: PHONE: EXT:

OSTP RECEIVED: 08/06/92  
FILE: P-PHYSICAL SCIENCES

DEPT RECEIVED:

CENTRAL FILES:



THE WHITE HOUSE  
WASHINGTON

September 29, 1992

Dear Professor Mkrtchyan:

Thank you for your recent letter regarding funding of the Superconducting Super Collider. We in the Administration, including the President, have worked very hard with Congress to turn the earlier House vote around. These efforts have been successful, and joint congressional action has restored funding to the SSC. The restoration, while substantial, is still under the President's request for fiscal 1993 but will allow us to move forward on constructing this forefront research facility.

Thank you again for your expression of interest and support.

Sincerely yours,

A handwritten signature in black ink, reading "D. Allan Bromley". The signature is fluid and cursive, with the first name "D. Allan" and the last name "Bromley" clearly distinguishable.

D. Allan Bromley  
The Assistant to the President  
for  
Science and Technology

Professor R. Mkrtchyan  
Yerevan Physics Institute  
Alikhanian Brothers St. 2,  
375036 Yerevan, ARMENIA



2246

RECEIVED

LaPronda Spann  
4941-15 Central Avenue  
Charlotte, NC 28205  
(704) 568-8224

92 JUN 23 A 9: 48

OSTP  
MAIL ROOM

Human Resources Department  
Office of Science and Technology  
New Executive Office Building  
725 17th Street, N.W.  
Washington, D.C. 20506

Dear Sir or Madam:

I am inquiring about the entry level positions your organization offers in the areas of environmental protection and/or some related biological field.

I have great interest in working for your organization. I am confident that the positions which you offer will give me the opportunity to utilize knowledge, skills, and working experiences that I have attained in completing the requirements for a Bachelor of Science degree in Biology. My experience covers a wide range of activities in the area of environmental science, all of which I have been very successful. I am highly creative and I believe that I could be an asset to your organization.

It would be of great assistance to me if you would send me a listing of job opportunities which your organization has available at this time. My address and phone number are listed above. I look forward to hearing from or receiving something from you in the near future.

Thanking you in advance for your time and cooperation.

Sincerely,

LaPronda Spann

"Document Control"

TYPE: INFORMATION

DOCUMENT NUMBER: 9202374

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

\*\*\*\*\*

FROM: WALKER, JACK: TITAN TACTICAL APPLICATIONS

TO: DR. D.A. BROMLEY

DATE OF  
CORRESPONDENCE: 07/28/92

SUBJECT: LETTER REGARDING RECENT DEVELOPMENTS PERTAINING TO  
BIOMASS/MSW CONVERSION TO RENEWABLE ENERGY FROM THE  
TITAN PERSPECTIVE.

\*\*\*\*\*  
DIRECTORATE STAFF  
ASSIGNED: ASSIGNED:

ACTION STAFF  
REQUIRED: ACTION:

\*\*\*\*\*  
SENDER'S DUE DATE:  
OSTP DUE DATE: STAFF DUE DATE  
DATE COMPLETED: DATE COMPLETED/DEPT:

\*\*\*\*\*  
COPIES TO: PHYSICAL SCIENCES  
D. Allan Bromley

\*\*\*\*\*  
WHITE HOUSE TRACKING #: CONTACT PERSON:  
PHONE: EXT:  
REMARKS:

OSTP RECEIVED: 08/13/92  
FILE: P-PHYSICAL SCIENCES

DEPT RECEIVED:

CENTRAL FILES:





28 July 1992

Dr. D. Allan Bromley  
Science Advisor to the President  
The White House  
Washington, D.C. 20500

Dear Dr. Bromley:

This is our brief update for you on recent developments pertaining to biomass/MSW conversion to renewable energy from the TITAN perspective. The developments involve some rather disappointing events preventing prompt commercialization, and our continued efforts to support industry and government cooperation for a National Demonstration Program.

First, an extensive and exhaustive consideration of financial, technical, and environmental risks in both construction and operation phases of an MSW-to-ethanol using the current weak acid TVA process was cooperatively conducted by TITAN, CH2M Hill, and Kamyr, Inc. After discussion and consideration of the results, Kamyr has currently backed away from contractual commitment with TVA in order to examine other MSW technologies. A Kamyr-sponsored commercial venture using MSW in the TVA ethanol process may or may not occur, depending on the outcome of the Kamyr review of competing MSW technologies.

Secondly, we are continuing to support the development of legislation that will support a National Demonstration Program for biomass and MSW conversion to fuels and chemicals. The concept of a two-part program places equal emphasis on demonstration of new technology improvements on a pilot plant scale, and on review and coordination of research on agricultural crops and waste, as well as MSW. As currently proposed, the National Demonstration Program will require a government-industry partnership in which, after the first 5 years, the demonstration program would be expected to receive at least 50% of all funding directly from industry. While this is a tight budgetary environment for beginning almost anything new, we feel that this initiative is an environmental/energy imperative that can enjoy broad support in both the House and Senate. The effort should make the cut. Unforeseen events that may impact the program include joint committee compromises and/or tightening Congressional budget, and/or a lack of funding for the TVA MSW project.

Mississippi State University, the University of Mississippi, and the University of Southern Mississippi are collaborating to form an institute which would be able to actively and coherently address the National Demonstration Program. These universities have a history of working cooperatively with TVA on ethanol research in two areas: concentrated and hydrolysis and ethanol from cotton trash. These three universities primarily see the role of the institute as four functions: 1) stimulation of new research; 2) focal point for review of emerging R&D for technologic and economic feasibility for scale-up; 3) contract research with other universities and laboratories; and 4) general oversight including monetary responsibility in transferring technology to the pilot plant. US industry, with interest in MSW and/or conservation, would have primary responsibility for building/operation of the pilot plant and moving the demonstrated processes into larger regional commercial plants.

We continue to have interest expressed by the Korean government and commercial interest for help with addressing solutions to their pressing MSW problems and programs that go beyond incineration, the current alternative to landfill in Seoul.

TVA continues to be a focal point for research and development in MSW-to-ethanol, and is currently funding projects at several universities. It also continues its role in administrative oversight of USDA projects in strong acid hydrolysis. TITAN sees that the Mississippi universities are dedicated to research

Dr. Bromley  
28 July 1992  
Page 2

and development in the ethanol area, and is confident that with an institute and Federal funding supporting them, that these institutions will follow through not just on research, but on practical and pragmatic pilot plant activities that will make this technology directly usable by US commercial interests and municipalities.

Once again, thank you for your continued interest. We will apprise you of further developments on this program.

Sincerely,

A handwritten signature in cursive script, reading "Jack Walker". The signature is written in dark ink and is positioned above the printed name and title.

Jack A. Walker  
President  
Titan Tactical Applications

JAW:cp