

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

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FOIA MARKER

**This is not a textual record. This is used as an
administrative marker by the George Bush Presidential
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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: Administration Files

OA/ID Number: 62024
Folder ID Number: 62024-010

Folder Title:
Administration: Awards [2 of 2] [1991]

Stack:

Row:

Section:

Shelf:

Position:

0

0

0

0

"CORRESPONDENCE TRACKING"

TYPE: ACTION DOCUMENT NUMBER: 9123606
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS

FROM: FANNONEY, Susan E.: PRESIDENT'S COMMITTEE ON THE NATIONAL MEDAL
OF SCIENCE
TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 08/23/91

SUBJECT: RE: FIRST REVIEW OF NOMINATIONS FOR 1992 AWARD.

DIRECTORATE STAFF
ASSIGNED: DIRECTOR'S OFFICE ASSIGNED:

ACTION STAFF
REQUIRED: FOR DAB'S SIGNATURE ACTION:

SENDER'S DUE DATE:
OSTP DUE DATE: 09/06/91 STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT:

COPIES TO: D. Allan Bromley

WHITE HOUSE TRACKING #: CONTACT PERSON:
PHONE: EXT:
REMARKS: The assignment is to the Director's Office for Damar Hawkins.

CLOSED

OSTP RECEIVED: 08/27/91 FILE: P-DAB-AWARDS
DEPT RECEIVED:

*MN
close out = Mary S w/ copies of note to Susan (if
you haven't already)*

9/10

3600e
PRESIDENT'S COMMITTEE ON THE NATIONAL MEDAL OF SCIENCE
NATIONAL SCIENCE FOUNDATION
WASHINGTON, D. C. 20550

RECEIVED

91 AUG 27 AM : 34

MEMORANDUM

TO: Dr. Carl O. Bostrom
✓ Dr. D. Allan Bromley
Dr. France Anne Cordova
Dr. Frank Press

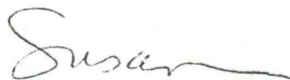
OFFICE OF THE
DIRECTOR

DATE: August 23, 1991

SUBJECT: First Review of Nominations for 1992 Award

The enclosed nomination for Dr. Sidney D. Drell was misdirected within the Foundation and not received by this office until August 15. Because the nomination was received within the time frame stipulated in the solicitation letter, I am forwarding the nomination and supporting letters for your consideration.

Also enclosed are letters of support received by this office since August 12.



Susan E. Fannoney
Staff Assistant

Enclosures

Withdrawal/Redaction Sheet

(George Bush Library)

Document No. and Type	Subject/Title of Document	Date	Restriction	Class.
01a. Form	Nomination for National Medal of Science fo Sidney D. Drell and supporting letters [personal information redacted] (6 pp.)	6/27/91	(b)(6)	

Collection:

Record Group: Bush Presidential Records
Office: Science and Technology Policy, Office of (OSTP)
Series: Bromley, D. Allan, Files
Subseries: Administration Files
WHORM Cat.:
File Location: Administration: Awards [2 of 2] [1991]

Date Closed:	3/4/2010	OA/ID Number:	62024-010
FOIA/SYS Case #:	2005-0336-F	Appeal Case #:	
Re-review Case #:		Appeal Disposition:	
P-2/P-5 Review Case #:		Disposition Date:	
AR Case #:		MR Case #:	
AR Disposition:		MR Disposition:	
AR Disposition Date:		MR Disposition Date:	

RESTRICTION CODES

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

P-1 National Security Classified Information [(a)(1) of the PRA]
P-2 Relating to the appointment to Federal office [(a)(2) of the PRA]
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]

C. Closed in accordance with restrictions contained in donor's deed of gift.

PRM. Removed as a personal record misfile.

Freedom of Information Act - [5 U.S.C. 552(b)]

(b)(1) National security classified information [(b)(1) of the FOIA]
(b)(2) Release would disclose internal personnel rules and practices of an agency [(b)(2) of the FOIA]
(b)(3) Release would violate a Federal statute [(b)(3) of the FOIA]
(b)(4) Release would disclose trade secrets or confidential or financial information [(b)(4) of the FOIA]
(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

Withdrawal/Redaction Sheet

(George Bush Library)

Document No. and Type	Subject/Title of Document	Date	Restriction	Class.
01b. Letters	Letters of recommendation for National Medal of Science [personal information redacted] (20 pp.)	7-8/91	(b)(6)	

Collection:

Record Group: Bush Presidential Records
Office: Science and Technology Policy, Office of (OSTP)
Series: Bromley, D. Allan, Files
Subseries: Administration Files
WHORM Cat.:
File Location: Administration: Awards [2 of 2] [1991]

Date Closed:	3/4/2010	OA/ID Number:	62024-010
FOIA/SYS Case #:	2005-0336-F	Appeal Case #:	
Re-review Case #:		Appeal Disposition:	
P-2/P-5 Review Case #:		Disposition Date:	
AR Case #:		MR Case #:	
AR Disposition:		MR Disposition:	
AR Disposition Date:		MR Disposition Date:	

RESTRICTION CODES

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

P-1 National Security Classified Information [(a)(1) of the PRA]
 P-2 Relating to the appointment to Federal office [(a)(2) of the PRA]
 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]

C. Closed in accordance with restrictions contained in donor's deed of gift.

PRM. Removed as a personal record misfile.

Freedom of Information Act - [5 U.S.C. 552(b)]

(b)(1) National security classified information [(b)(1) of the FOIA]
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 (b)(3) Release would violate a Federal statute [(b)(3) of the FOIA]
 (b)(4) Release would disclose trade secrets or confidential or financial information [(b)(4) of the FOIA]
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 (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

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9123575

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

FROM: WHITELAW, Michael J.: IEEE U.S. ACTIVITIES

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 08/20/91

SUBJECT: A LETTER TO THE PRESIDENT INFORMING HIM THAT DR.
BROMLEY HAS BEEN CHOSEN TO RECEIVE THE 1991 IEEE
UNITED STATES ACTIVITIES BOARD DISTINGUISHED PUBLIC
SERVICE AWARD.

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: D. Allan Bromley
DIRECTOR'S OFFICE
ALL ASSOCIATE DIRECTORS
PCAST

FCCSET

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE:

EXT:

REMARKS:

OSTP RECEIVED: 08/23/91

DEPT RECEIVED:

FILE: P-EOP-PRESIDENTIAL*P-DAB-AWARD



IEEE

UNITED STATES ACTIVITIES

RECEIVED

Promoting Career and Technology Policy Interests of Electrical, Electronics & Computer Engineers

91 AUG 23 AM : 15

United States Activities Board August 20, 1991

Technology Policy Council

Aerospace R&D Policy
Communications &
Information Policy
Defense R&D Policy
Energy Policy
Engineering R&D Policy
Health Care Engineering Policy
Man & Radiation

Government Activities Council

Congressional Fellows
Washington Internship for
Students of Engineering
Legislative Report
National Government Activities
State Government Activities
Technology Policy Conference
Technology Transfer
U.S. Competitiveness

Member Activities Council

Awards & Recognition
Communications
Continuing Engineering Education
Employment Assistance
IMPACT
Opinion Survey
Precollege Education
Professional Perspective
Salary Survey

Professional Activities Council

for Engineers (PACE)
PACE Regional & Divisional Activities
PACE Information Workshop
Student Professional Awareness

Career Activities Council

Anti-Discrimination
Career Maintenance & Development
Ethics
Intellectual Property
Licensure & Registration
Manpower
Pensions

IEEE-USA Office
(202) 785-0017

"Information Line" Recording
(202) 785-2180

Facsimile
(202) 785-0835

OFFICE OF THE
DIRECTOR

The Honorable George Bush
President of the United States
The White House
Washington, DC 20500

Dear Mr. President:

It is my pleasure to inform you that D. Allan Bromley has been chosen to receive the 1991 IEEE United States Activities Board Distinguished Public Service Award. Dr. Bromley is being honored for his outstanding contributions to the development and implementation of Federal policy on science, engineering and technology. His activities have been directed toward the enhancement of the technology policy interests of the United States and thereby the interests of our U.S. members.

The plaque representing the award will be presented to Dr. Bromley in his office at 11:00 am, October 23, 1991.

The Institute of Electrical and Electronics Engineers (IEEE) is a transnational society directed toward the advancement of the theory and practice of electrical and electronics engineering and the related arts and sciences. There are approximately 320,000 individual members worldwide of which some 250,000 are in the United States. The United States Activities Board (USAB) of IEEE is responsible for the interests of the U.S. members.

Sincerely,

M. J. Whitelaw

Michael J. Whitelaw
IEEE Vice President, Professional Activities and
Chairman, United States Activities Board

MJW:mls

BCC: E. Sumner
D. Bromley
M. Buckley
D. Brereton
E. Herz
L. Fanning
W. Anderson

"CORRESPONDENCE TRACKING"

TYPE: ACTION DOCUMENT NUMBER: 9123562
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS

FROM: CLARK, Bruce W.: STATE DEPARTMENT

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 08/20/91

SUBJECT: RESERVATIONS FOR USE OF THE DIPLOMATIC RECEPTION
ROOM (THE BENJAMIN FRANKLIN ROOM) FROM 6:30-9:30PM
FOR THE DINNER IN HONOR OF THE PRESIDENT'S NATIONAL
MEDALS OF SCIENCE AND TECHNOLOGY.

DIRECTORATE STAFF
ASSIGNED: DIRECTOR'S OFFICE ASSIGNED:

ACTION STAFF
REQUIRED: AS NECESSARY ACTION:

SENDER'S DUE DATE:
OSTP DUE DATE: 09/28/91 STAFF DUE DATE
DATE COMPLETED: 8/22/91 DATE COMPLETED/DEPT:

COPIES TO: D. Allan Bromley

WHITE HOUSE TRACKING #: CONTACT PERSON: MS. LEE HENDERSON
PHONE: 647-2275 EXT:
REMARKS: The assignment is to the Director's Office for Damar Hawkins.

*Closed
per Damar*

CLOSED

OSTP RECEIVED: 08/21/91
DEPT RECEIVED:

FILE: P-DAB-AWARDS



3562
United States Department of State

Washington, D.C. 20520

RECEIVED

August 20, 1991

91 AUG 21 P 4: 52

Dear Dr. Bromley:

OFFICE OF THE
DIRECTOR

Thank you for your letter of August 12 addressed to Deputy Assistant Secretary Jerome F. Tolson, Jr. Mr. Tolson has assumed other duties and I have taken over his responsibilities. In that letter, you ask that the eighth floor be reserved for a dinner in honor of the President's National Medals of Science and Technology.

The Benjamin Franklin Room has been reserved for you on September 16 from 6:30 to 9:30 p.m. for the dinner with the understanding that you will personally host and attend the function and that an employee from your office will be designated to assist with the event. Enclosed is a copy of our Guidelines for use of the area. Your office will be responsible for any administrative and support costs incurred specifically for this event. Please have your coordinator contact Ms. Lee Henderson on 647-2275 to work out the details of this function.

Reservations for use of the Diplomatic Reception Rooms are made with the understanding that all functions are subject to preemption. We look forward to working with your staff on this event.

Sincerely,

Bruce W. Clark
Deputy Assistant Secretary
for Operations

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

Enclosure:
As Stated.

Washington, D.C. 20520

September 10, 1991

August 24, 1991

Dear Mr. Brown:

Director

Thank you for your letter of August 22 addressed to Deputy Assistant Secretary Jerome E. Johnson, Jr. Mr. Johnson has assumed other duties and I have taken over his responsibilities. In that letter, you ask that the dinner floor be reserved for a dinner in honor of the President's National Medal of Science and Technology.

The Benjamin Franklin Room has been reserved for you on September 10 from 6:30 to 9:30 p.m. for the dinner with the understanding that you will personally host and attend the function and that arrangements from your office will be designated to assist with the event. Enclosed is a copy of our Guidelines for use of the event. Your office will be responsible for any administrative and support coordination needed specifically for this event. Please have your coordinator contact Mr. Les Henderson on 202-225-1232 to work out the details of this function.

Reservations for use of the Benjamin Franklin Room are made with the understanding that all functions are subject to cancellation. We look forward to working with your staff on this event.

Sincerely,

George W. Clark
Deputy Assistant Secretary
for Operations

The Honorable
D. Allan Stewart
The Assistant to the President for
Science and Technology
The White House

Enclosure
As stated

ADDITIONAL GUIDANCE FOR USING THE
DIPLOMATIC RECEPTION ROOMS

Due to the situation in the Persian Gulf and until further notice, the Bureau of Diplomatic Security MUST be provided with the following information no later than two days before your event. You may fax the information to 202/663-1913.

- a. Full name of ALL attendees
- b. Social Security Number (non-citizens use passport number)
- c. Citizenship
- d. Date of birth.

Failure to provide this information could delay or preclude entry into the building. Attendees whose names are not on the furnished list may be denied admittance.

All guests will be required to identify themselves by presenting the following approved photographic identification:

valid U.S. Government (federal, state and municipal)
photographic identification cards (includes Department of State
retired ID)

valid U.S. military photographic identification cards

valid U.S. photographic state drivers permis (includes
photographic state non-drivers identification cards)

all valid passports

valid photographic Diplomatic Identification Cards issued by
the State Department

valid photographic United Nations Cards issued by the State
Department

valid photographic Tax Exemption Cards issued by the Office of
Foreign Missions

valid photographic official foreign government identification
cards

valid photographic Organization of American States (OAS),
International Monetary Fund (IMF) and World Bank identification.

If you have any questions, please contact Ms. Lee Henderson at
647-2275. Your cooperation in this matter is greatly appreciated.

0707b

1. Please note that the occupancy load for the Diplomatic Reception Rooms has recently been re-evaluated due to a modification of National Fire Protection Association regulations. The General Services Administration and the Department's Safety Office have advised the following limitations: Receptions using the Jefferson and Franklin Rooms, 375 (this includes, but is not limited to, guests, support personnel, catering personnel, security and entertainment). All functions are required to comply with the aforementioned limitations. Your cooperation in this matter is greatly appreciated.
2. Receptions using the Jefferson Room before a sit down luncheon or dinner will be limited to 175. (Luncheons/Dinners without reception periods may remain at 250).
3. Requests for filming (other than network news coverage) must be put in writing to the attention of: Special Projects Staff, Bureau of Public Affairs, Room 4827A, U.S. Department of State, Washington, D.C. 20520 and approved by the Special Projects Staff (PA/PC/SPS). Requests by film and video crews of foreign nationalities must be approved by the Deputy Assistant Secretary for Operations (A/OPR), Diplomatic Security (DS) and such other offices as PA/PC/SPS deems appropriate.

Should a request for filming at a particular location within the Department conflict with the normal conduct of business, State maintains the right to deny clearance for the filming session.

Film and video crews must be accompanied by a Public Affairs Officer or delegate at all times during the filming session inside or outside the building. Appointments and schedules must be strictly adhered to by film crews. Rescheduling may not be possible.

CATERERS CLEARED TO WORK IN THE
STATE DEPARTMENT BUILDING

B & B Caterers (also kosher) 7023 Blair Road, NW Washington, D.C. 20012	829-8640
Design Cuisine (also kosher) 2659 South Shirlington Road Arlington, Virginia 22206	979-9400
Feist Catering Ltd. 64 Sycolin Road, S.E. Leesburg, Va. 22075	478-1179
FCD, Inc. (Fiona) 1415 29th Street, N.W. Washington, D.C. 20007	965-3822
Food Arts, Inc. 10436 Nolan Drive Rockville, Md. 20850	251-6269
*Guest Services Inc. Main State Cafeteria	647-3689
*Limited service and menu selections for luncheons only in the Henry Clay Room.	
Maynard & David 1668 33rd Street, N.W. Washington, D.C. 20007	337-1400
Movable Feast 5903 Riggs Road Hyattsville, Md. 20783	559-2111
Occasions Caterers 1508 U Street, N.W. Washington, D.C. 20009	667-0888
Paris Caterers 12260 Wilkins Avenue Rockville, Md. 20852	530-5402
Ridgewell's Caterers 5525 Dorsey Lane Bethesda, MD 20016	652-1515
Sans Rival Caterers (also kosher) 3636 16th Street, N.W. Washington, D.C. 20010	462-4454
Scandinavian Cuisine 5803 Cleves Lane Bethesda, Md. 20816	229-3954
Windows Catering Co. 1000 Wilson Blvd. Arlington, VA. 22209	527-3121



GUIDELINES FOR USING THE DIPLOMATIC RECEPTION ROOMS

Office of Operations

1. All technical and support services (elevator operators, guards, electronic technicians, etc.) are to be reviewed immediately upon receipt of the letter of confirmation with the General Services Division, telephone 647-2275.

2. Selection of a caterer, who must meet security requirements, is the responsibility of the hosting agency. There are listed on the reverse of this sheet names of caterers whose employees have been cleared to work in the State Department building. Only one caterer may have access to the eighth floor on any given day, and sponsors must check with the General Services Division (647-2275) before contracting with a caterer to make sure there is no other function for which a caterer has already been selected.

3. Security requirements are to be discussed immediately with the Office of Security, telephone 663-1363.

A written guest list of all persons (coordinators and guests) will be required to be provided approximately two weeks before the function is scheduled to be held.

4. A meeting should be arranged as soon as possible with the Manager of the Diplomatic Reception Rooms (647-3742) in order that catering and other detailed arrangements can be reviewed. The Manager will set up a convenient time to "walk through" the area.

5. Expenses for all technical and support services, as well as catering, are to be borne by the individual sponsor or sponsoring organization. An estimate of support costs will be furnished by the General Services Division upon request.

6. Damages to or loss of furnishings, objects of art, or other property, resulting from use of the Diplomatic Reception Rooms, is the responsibility of the sponsor.

7. In accordance with State Department policy, and insofar as possible, foods and beverages served are to be of American origin.

8. Limitations on Attendance:

Jefferson Room - Reception (tray service only)	175
Franklin Room - Reception	375
Reception/Dinner	175
Luncheon or Dinner	250
Buffet with plated food	225
Henry Clay	
Luncheon or Dinner	20
Reception	40

Limitations for other types of functions must be discussed with the manager of the Diplomatic Reception Rooms before any final arrangements are made with the caterer.

9. Limitations on Dates/Times:

No weekend functions.

No functions on Government holidays.

Receptions 2 to 2 1/2 hours max.
(usually 6-8 or 7-9)

Dinners 3 hours max.
(not later than 10:00 p.m.)
(usually 6-9 or 7-10)

Lunches 2 1/2 hours max.
(between 12 noon - 2:30)

Swearing-In Ceremonies 1 hour

10. No fee or admission is to be charged, and no collection is to be taken. No function is to be conducted directly or indirectly for profit.

Attendance at any function shall be by invitation only, and invitations shall be restricted to an established guest list and not issued as a general solicitation.

Dancing is not permitted in the Diplomatic Reception Rooms.

"LIFE SCIENCES (CORRESPONDENCE TRACKING)"

TYPE: ACTION DOCUMENT NUMBER: 9123263
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS C

FROM: BINGHAM, Fredric N.

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 08/03/91

SUBJECT: REQUEST TO FORWARD THE ENCLOSED PERSPECTIVE TO THE
PRESIDENT.

DIRECTORATE STAFF
ASSIGNED: LIFE SCIENCES ASSIGNED: D.A. Henderson

ACTION STAFF
REQUIRED: AS APPROPRIATE ACTION: Necessary Action

SENDER'S DUE DATE:
OSTP DUE DATE: 08/19/91 STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT:08/08/91

COPIES TO: Sarah Keegan

WHITE HOUSE TRACKING #: CONTACT PERSON:
PHONE: EXT:
REMARKS: Please note that copies have been sent to the media. Enclosures
to DAB. Reassigned to Life Sciences 08/06/91 per Damar Hawkins.
DAH stated that no action was indicated, close record out.

OSTP RECEIVED: 08/06/91
DEPT RECEIVED: 08/07/91

FILE: P-DAB-AWARDS

"CORRESPONDENCE TRACKING"

TYPE: ACTION DOCUMENT NUMBER: 9123263
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS

FROM: BINGHAM, Fredric N.

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 08/03/91

SUBJECT: REQUEST TO FORWARD THE ENCLOSED PERSPECTIVE TO THE
PRESIDENT.

DIRECTORATE STAFF
ASSIGNED: LIFE SCIENCES ASSIGNED:

ACTION STAFF
REQUIRED: AS APPROPRIATE ACTION:

SENDER'S DUE DATE:
OSTP DUE DATE: 08/19/91 STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT:

COPIES TO: Sarah Keegan

WHITE HOUSE TRACKING #: CONTACT PERSON:
PHONE: EXT:
REMARKS: Please note that copies have been sent to the media. Enclosures
to DAB. Reassigned to Life Sciences 08/06/91 per Damar Hawkins.

OSTP RECEIVED: 08/06/91 FILE: P-DAB-AWARDS
DEPT RECEIVED:

"CORRESPONDENCE TRACKING"

TYPE: ACTION

DOCUMENT NUMBER: 9123263

ORIGINATOR: 02

STATUS I

DIRECTORATE STATUS

FROM: BINGHAM, Fredric N.

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 08/03/91

SUBJECT: REQUEST TO FORWARD THE ENCLOSED PERSPECTIVE TO THE
PRESIDENT.

DIRECTORATE

STAFF

ASSIGNED: D. Allan Bromley

ASSIGNED:

ACTION

STAFF

REQUIRED: AS APPROPRIATE

ACTION:

*MS
Maybe reassign
to Henderson. I's
this guy for real?
DH*

SENDER'S DUE DATE:

OSTP DUE DATE: 08/19/91

STAFF DUE DATE

DATE COMPLETED:

DATE COMPLETED/DEPT:

COPIES TO: Sarah Keegan

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE:

EXT:

REMARKS: Please note that copies have been sent to the media. Enclosures
to DAB.

OSTP RECEIVED: 08/06/91

FILE: P-DAB-AWARDS

DEPT RECEIVED:

08.03.91

RECEIVED

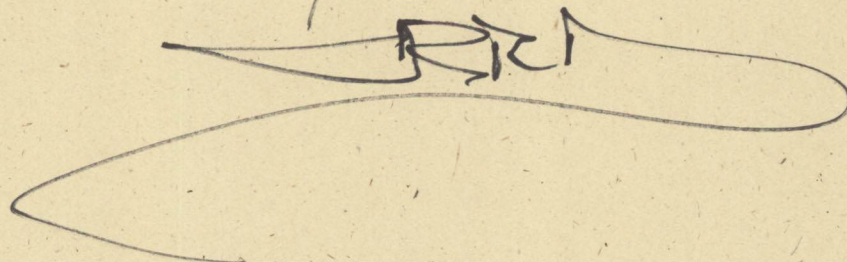
91 AUG 6 A9:13

MR. BROMBERG:

OFFICE OF THE
DIRECTOR

I WOULD BE EXTREMELY
APPRECIATIVE IF YOU
WOULD BRING THE
ENCLOSED PERSPECTIVE
TO THE PRESIDENT'S
ATTENTION!

MY BEST —



Fredric N. Bingham

Fredric N. Bingham

07.25.91

Mr. President:

I write this letter as an open plea for assistance concerning a matter of global importance, indeed survival. It is a conflict which, if ignored, will -without question- greatly reduce our species' capabilities for adaptation. It is also profoundly symbolic, shadowing the darkness we have held up to the world as light...the inevitable bareness born in shaping reality almost solely from an ever-expanding for-profit mold. If the enclosed is not attended to immediately the very near future will see various social and environmental pressures meeting at a point of no return for our present way of Life - one many still appear so hubristically to **assume** unalterably God-given.

Please allow me the time of the following three pages to outline the situation as I currently see it. In the left side pocket of the green presentation folder directly beneath this letter, you will find the Presentation Index followed by the Presentation Fact Sheet. The parenthetically numerated inserts in Fact Sheet refer to the preceding Index. In Fact Sheet I have tried to clarify and summarize, while indicating the relationships between the various sections of these extensive enclosures. I feel the amount of documentation is justified given the critical and unfamiliar nature of the situation.

In Texas there lives a brilliant humanitarian, physician and biochemist-researcher named Stanislaw Burzynski who will perhaps one day, if we are all so lucky, be presented with a Nobel. However first, it seems, he must be subjected to that peculiar "hazing" ritual which distinguished Western Civilization has also bestowed upon the likes of Da Vinci, Galileo, Newton, et al. by -initially- being so correct, so completely ahead of his time, that dubiously entrenched (and frankly destructive in their regressivity) socio-economic interests feel sufficiently threatened by his remarkable vision to find it absolutely necessary, if not to openly destroy all he represents, then at least to thwart his work and recognition beyond their own lifetimes. Unfortunately, given the present severe "fore-shortening" of historical-environmental time, if they, or the forces they represent, continue to be even vaguely successful, Life could become so diminished as to be miserably insignificant.

The contemporary version of this ageless drama is directed not by ecclesiastical but pharmaceutical "courts" wearing the bejeweled cloak of the mighty Insurance Industry. The expensively appointed judge might as well be called by his secret first name...AETNA. God, they seem to think, has turned to pure Gold on fin de millennia earth.

Watch 'Him' next oxidize and tarnish if these misguided people are allowed to have their way with this man.

Please. I beg all of you who read this. Help stop this madness and assure our future. Begin this process by taking the enclosed first step which will avert our complete self-destruction. I sincerely can not imagine any of you will stand silent after you have considered these pages.

I have come to know Dr. 'B' while being one of the participants in his HIV trial...an extremely promising, but young study. Unfortunately that is exactly what "Aetna" et al seem to think, and have accelerated their legal action -and discovery of all his patient files and sufficient other information to thwart him for too many years- in just the last month.

However, Stanislaw Burzynski is a kind, deeply compassionate man with a remarkably pure and strong faith in God. An honest man, both in word and in worth, with a restrained and reflective sense of himself. A fighter and searcher of truth who would have lost and been lost long ago against the incessant onslaughts meant to cripple and destroy without these qualities.

Yes, I am explaining this in near-mythological terms -as meta-reality, not fable- for this **is** contemporary mythology, **is** light against the dark, the hero armed only with faith and truth against the Beast-In-Ourselves... For more than one of the guiding paradigms shaping our reality have reversed and -now- it is We who must openly face ourselves. In many important respects, the unending Western battle against Nature has ended; and -now- it is We who must loose our innocence with the "triumph" or be lost forever. And there is precious little time left to accept this reality...

For you see, Dr. Burzynski has discovered another, completely independent, bodily defense system. A biochemical one, composed of messenger peptides. Endogenously occurring proteins and amino acid derivatives which instruct cells to behave normally, to stop acting cancerously, or virally, or -in some cases- degeneratively. And he has only just begun this, this entirely new field, new way of treating many diseases non-toxically, this new Way to Life surely God-given. And we need -as a species- to acknowledge and expand this research as rapidly as we can. For we are about to loose a substantial portion of our protective ozone shield in the wink of an evolutionary eye.

This is our only reasonable hope for a successful adaptation given the imminent and swiftly approaching dangers upon us all.

Whether it be catalytic, stratospheric, man-made or volcanic

pollutants; increased natural particular, desertified lofting from rapidly shifting global rain belts; or an expanded CFC/Particular uplift capacity as a result of our warming atmosphere (to say nothing of the exacerbated turbulence experienced along conflicting weather fronts; or 'unnatural' temperature compositions/convection among the various 'spheres')... our Earth will -sooner than we could ever want to imagine- be exposed to life threatening levels of high energy radiation. To allow this man to be destroyed, in light of these pending realities, is to openly allow and accept our own self-destruction. We need Burzynski's work to protect all Life on this planet. You must -everyone of you- help to protect this man and his research **now**.

And because these normalizing, messenger proteins are species specific, We must, as quickly as possible, expand this research base, to other species and life forms; to ornithine for birds, glutamic acid for dogs, etc... Search the other species' components... We must identify and apply this paradigm as fully as We can, as soon as We can, to as much as We can of **all** life forms on this faltering globe.

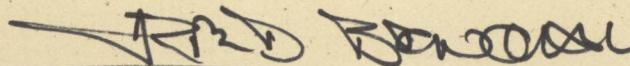
I can not begin to tell you how much looming conflict and dissolution will be globally diminished to manageable proportions by these immediate actions- by this Ark Project.

And as for "Aetna", even though They must be held accountable, They must not be blamed...for it is long past the time when We should have all stopped for a moment and asked Ourselves -in the clearest of terms- just exactly where it was We were going. Past the time when the preservation of a humane and sustainable future was automatically assured in the actions of the present. Past the time when the word "profit" became synonymous with values other than Gold....truly transcendental, human values, which can never, no matter how We try, ever be formed out of wood or clay....

How much more "wood" must We burn to ash, how much "clay" must We turn to toxic sludge, before We learn -and live- these Universal Truths ?

And if We don't start -yesterday- asking these questions and shape a resounding, globally united and compassionately diversified Answer, they will be brutally asked of Us. And -as I think many of you are beginning to now understand- they will be asked very very soon.

Respectfully,



Fred Bingham

COPIES TO:

ON 06.20.91:

CBS: DAN RATHER
NBC: TOM BROKAW
ABC: PETER JENNINGS
CNN: TED TURNER

MAX FRANKEL
NEW YORK TIMES

BEN BRADLEE
WASHINGTON POST

TIME MAGAZINE

ON 07.29.91:

PBS: ROBERT MCNEIL

WASHINGTON:

SEN. TIMOTHY WIRTH
SEN. WM. ROTH JR.
SEN. EDW. KENNEDY
SEN. AL GORE
REP. HENRY WAXMAN

S.S. JOANNAS PAULUS II
THE LORD ARCHBISHOP OF CANTERBURY
HIS ALL-HOLINESS DEMETRIOS I

H.R.H. THE PRINCE OF WALES
H.R.H. THE DUKE OF EDINBURGH

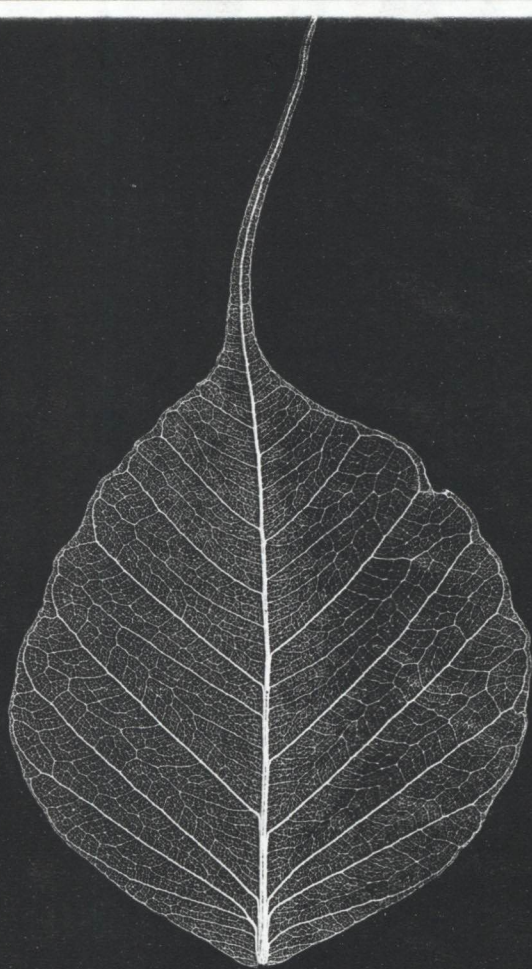
ON 08.03.91:

JUDGE KENNETH HOYT

JAMES T. LYNN

PRESIDENT GEORGE W. BUSH

Fredric N. Bingham



Mary Smit

"CORRESPONDENCE TRACKING"

TYPE: ACTION
ORIGINATOR: 02 STATUS I DOCUMENT NUMBER: 9122803
DIRECTORATE STATUS

FROM: WHITE, Robert M.: DEPARTMENT OF COMMERCE

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/23/91

SUBJECT: RE: THE MEDAL OF SCIENCE TECHNOLOGY FOUNDATION; A
REQUEST TO ENCOURAGE WAYS TO MAKE THE RELATIONSHIP
WITH THEM WORK.

DIRECTORATE STAFF
ASSIGNED: ~~Michelle Van Cleave~~ ASSIGNED: *Wassig to Damar*
7/29/91

ACTION STAFF
REQUIRED: FOR DAB'S SIGNATURE ACTION:

SENDER'S DUE DATE:
OSTP DUE DATE: 08/07/91 STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT:

COPIES TO: D. Allan Bromley
INDUSTRIAL

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

*Damar - I don't know who has been handling
this (but obviously it's not me) Perhaps you could
re-assign? Thanks -*

OSTP RECEIVED: 07/25/91
DEPT RECEIVED:

FILE: *p-* DAB-AWARDS*IND-TECHNOLOGY

"CORRESPONDENCE TRACKING"



2803
UNITED STATES DEPARTMENT OF COMMERCE
The Under Secretary for Technology
Washington, D.C. 20230

RECEIVED

91 JUL 25 P 4: 03

OFFICE OF THE
DIRECTOR

July 23, 1991

MEMORANDUM TO Allan Bromley

From: Robert M. White *Bob*

Subject: Medal of Technology Foundation

Thank you for your support in promoting the Medal of Technology Foundation. There are some facts about the Foundation that I mentioned at our meeting on July 22 that may help with your efforts.

First of all, the Foundation is a private, non-profit charitable organization that has already been established under IRS statute 501 (C)(3). Their charter is to promote the Medal and the winners. They propose to do this through a variety of methods including fellowships, scholarships, and educational materials. The founders are people like George Rathman, former Medalist and founder of Amgen, and Steve Burrill who serves on numerous science museum boards, individuals who are committed to the promotion of science and technology.

The fact is that this Foundation does exist, is independent of the Federal government, and is proceeding with its philanthropic mission. They have endorsed the production of videos based on the lives of the Technology Medalists for grade school children. As I mentioned, I think we should cooperate with them, as appropriate, to the greatest extent possible. It can only benefit U.S. science and technology. We should encourage our legal staffs to find ways to make this relationship work.

cc: Dr. Walter Massey
National Science Foundation

THE WHITE HOUSE
WASHINGTON

July 29, 1991

MEMORANDUM FOR ROBERT M. WHITE

FROM: D. ALLAN BROMLEY *Quar*
SUBJECT: Medals of Technology Foundation

Thank you for the memorandum of July 23, 1991 regarding the Medal of Technology Foundation.

I do appreciate being brought up to date on the Foundation, and I do believe our meeting of July 22 was informative. As you know, in my capacity, representing the President in activities involving the Medal of Science and the Medal of Technology, I encourage productive efforts to promote appropriately these awards. In addition, it is important for the Department of Commerce and the National Science Foundation to work together to ensure that both medals are promoted in appropriate ways. I therefore greatly appreciate the efforts of the Department of Commerce to work with the National Science Foundation and look forward to another splendid awards ceremony.

On the matter of the legal aspects of the Foundation, as you know we are not involved with negotiations between Commerce, OMB and White House Counsel's office. I would encourage you to work with their staff to come to some resolution of any issues that may be raised. I am most interested in these discussions. If at any time you believe it appropriate for me to assist, I would be happy to do that.

Again, thank you for contacting me. I look forward to working again with Secretary Mosbacher and Director Massey to highlight this year's Medal of Science and Medal of Technology award winners. I thought that we had reached agreement on all the relevant issues in the two meetings in my office -- but be assured that I stand ready to do whatever may be required to make this year's award ceremony a total success.

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION DOCUMENT NUMBER: 9122063
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS

FROM: FANNONEY, Susan E.: PRESIDENT'S COMMITTEE OF THE NATIONAL MEDAL
OF SCIENCE

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/09/91

SUBJECT: THE NEXT MEETING OF THE MEDAL OF SCIENCE COMMITTEE.

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: D. Allan Bromley

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

CLOSED

OSTP RECEIVED: 07/12/91 FILE: P-DAB-AWARDS
DEPT RECEIVED:

2063
PRESIDENT'S COMMITTEE ON THE NATIONAL MEDAL OF SCIENCE
NATIONAL SCIENCE FOUNDATION
1800 G STREET, N.W.
WASHINGTON, D.C. 20550

RECEIVED

July 9, 1991 JUL 12 AM 11:38

MEMORANDUM TO MEDAL OF SCIENCE COMMITTEE MEMBERS

OFFICE OF THE
DIRECTOR

Subject: Next Meeting

The next meeting of the Committee is scheduled for Tuesday,
October 8, 1991 at 9:00 a.m. in Room 540 at the National Science
Foundation, 1800 G Street, NW.


Susan E. Fannoney
Staff Assistant

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9121315

FROM: MASSEY, Walter E.: NATIONAL SCIENCE FOUNDATION

TO: DR. BROMLEY

DATE OF
CORRESPONDENCE: 04/26/91

SUBJECT: A COPY OF THE MEMORANDUM TO THE MEMBERS OF THE
NATIONAL SCIENCE BOARD REGARDING THE PRESIDENTIAL
SCIENCES & ENGINEERING FACULTY FELLOWS PROGRAM.

ASSIGNED TO:

ACTION REQUIRED:

SENDER'S DUE DATE:

OSTP DUE DATE:

DATE COMPLETED:

COPIES TO: D. Allan Bromley
Damar Hawkins

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED: 05/03/91

P- DAB
FILE: AWARDS

9121315

NATIONAL SCIENCE FOUNDATION
WASHINGTON, D.C. 20550



OFFICE OF THE
DIRECTOR

April 26, 1991

RECEIVED

91 MAY 3 P 3:26

OFFICE OF THE
DIRECTOR

Honorable D. Allan Bromley
Assistant to the President
for Science and Technology
The White House
Washington, D. C. 20500

Dear Allan:

Pursuant to our conversations on the new Presidential Science and Engineering Faculty Fellows Program, enclosed is a copy of the memorandum which will be sent to the Board for approval next week.

I am most enthusiastic about the President's initiative to lend the prestige of his office to these new awards, and to the distinguished young faculty that will be honored by them.

Sincerely,



Walter E. Massey
Director

Enclosure

NATIONAL SCIENCE FOUNDATION
WASHINGTON, D. C. 20550

nsf

April 30, 1991

NSB-91-87

OFFICE OF THE
DIRECTOR

MEMORANDUM TO MEMBERS OF THE NATIONAL SCIENCE BOARD

SUBJECT: Presidential Science and Engineering Faculty Fellows
Program (PFF)

BACKGROUND

The White House has requested the Foundation to develop an award program whereby the President might recognize, honor, and reward a few of the Nation's most outstanding young science and engineering faculty members. Eligibility, selection procedures, and funding conditions should be patterned after the Foundation's existing Presidential Young Investigator Program, but with some significant differences, as follows:

- a. The President (or chief academic officer) of each U.S. university or college offering a baccalaureate degree in science and engineering may nominate up to two young faculty members who are within three years of their first faculty appointment. Nomination letters should describe both the teaching and research accomplishments of the nominee and the potential for further achievements.
- b. The number of awards to be made each year will be not more than thirty.
- c. Awards will be for five years and funded at \$100,000 per year, on the assumption of reasonable progress and achievement. There will be no matching funds requirement.
- d. Selection will be based on the nomination letter, other letters of recommendation, and a statement by the nominee of his or her research and teaching plans.
- e. Approximately half of the awards will be made to faculty in engineering or related fields.
- f. At the conclusion of their Fellowships, awardees will be asked to provide a summary of their research and educational accomplishments.

The Foundation will prepare and issue a Request for Nominations, administer the selection process, and fund the awards. The White House must approve the final award decisions.

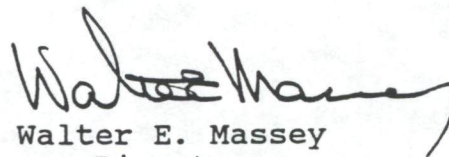
The Presidential designation will now attach to this new program and therefore will be removed from the Presidential Young Investigator Program. This program will be renamed the NSF Young Investigator Program.

At steady state (after five years) the Presidential Science and Engineering Faculty Fellows Program will be funded at a level of \$15,000,000.

RECOMMENDATION

I recommend that the Board approve this new program with the following resolution:

RESOLVED, that the National Science Board approves the Presidential Science and Engineering Faculty Fellows Program as described in NSB-91-87 subject to the availability of funds, and authorizes the Director to take final action on grants, contracts or other arrangements except when such actions require Board approval under existing policy guidelines.


Walter E. Massey
Director

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9121074

FROM: LANFORD, William A.: UNIVERSITY AT ALBANY, STATE UNIVERSITY OF
NY

TO: DR. BROMLEY

DATE OF
CORRESPONDENCE: 04/04/91

SUBJECT: - NOMINATION OF ALAIN KAYOYEROS FOR A PRESIDENTIAL
YOUNG INVESTIGATOR AWARD. - DEVELOPMENT OF LENSES
FOR X-RAYS.

ASSIGNED TO:

ACTION REQUIRED:

SENDER'S DUE DATE:

OSTP DUE DATE:

DATE COMPLETED:

COPIES TO: D. Allan Bromley

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED: 04/11/91

FILE: *p-* *personal* DAB CORRESPONDENCE*AWARDS

Withdrawal/Redaction Sheet

(George Bush Library)

Document No. and Type	Subject/Title of Document	Date	Restriction	Class.
02. Letter	To: Allan Bromley From: William Lanford Re: Nomination of Alain Kaloyeros for a Presidential Young Investigator Award [personal information redacted] (2 pp.)	4/4/91	(b)(6)	

Collection:

Record Group: Bush Presidential Records
Office: Science and Technology Policy, Office of (OSTP)
Series: Bromley, D. Allan, Files
Subseries: Administration Files
WHORM Cat.:
File Location: Administration: Awards [2 of 2] [1991]

Date Closed:	3/4/2010	OA/ID Number:	62024-010
FOIA/SYS Case #:	2005-0336-F	Appeal Case #:	
Re-review Case #:		Appeal Disposition:	
P-2/P-5 Review Case #:		Disposition Date:	
AR Case #:		MR Case #:	
AR Disposition:		MR Disposition:	
AR Disposition Date:		MR Disposition Date:	

RESTRICTION CODES

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

P-1 National Security Classified Information [(a)(1) of the PRA]
P-2 Relating to the appointment to Federal office [(a)(2) of the PRA]
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]

C. Closed in accordance with restrictions contained in donor's deed of gift.

PRM. Removed as a personal record misfile.

Freedom of Information Act - [5 U.S.C. 552(b)]

(b)(1) National security classified information [(b)(1) of the FOIA]
(b)(2) Release would disclose internal personnel rules and practices of an agency [(b)(2) of the FOIA]
(b)(3) Release would violate a Federal statute [(b)(3) of the FOIA]
(b)(4) Release would disclose trade secrets or confidential or financial information [(b)(4) of the FOIA]
(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

HOLD FOR RELEASE ON APRIL 2

Contact: Mary Fiess or Christine Hanson McKnight, (518) 442-3091

Scientists to Unveil Revolutionary X-ray Optics Technology

A Soviet physicist, Muradin A. Kumakhov of the I.V. Kurchatov Institute of Atomic Energy in Moscow, and an American physicist, Walter Gibson of the University at Albany, will unveil on Tuesday, April 2 a new technology for focusing and controlling X-rays and neutrons. This technology, in the physicists' view, has the potential to revolutionize the diagnosis and treatment of localized tumors, to dramatically advance efforts to make the next generation of computer chips, and to improve many other processes in which X-rays and neutrons are used.

A news conference will be held in Albany at 2:30 p.m. on April 2 in Room 253 of the Administration building on the University's main campus at 1400 Washington Ave.

The basic technology was developed over the last five years by Kumakhov and fellow researchers at the I.V. Kurchatov Institute. Kumakhov and Gibson, who have collaborated on various research projects for 20 years, recently formed a partnership to further develop the X-ray optics technology and demonstrate its feasibility for commercial applications. A joint research program will be carried out by the newly formed Center for X-ray Optics at the University at Albany and the Institute for Roentgen Optical Systems in Moscow.

The critical element in this new technology is a "lens" consisting of thousands of tiny hollow glass capillaries that guide X-rays down their lengths. Without such a lens, X-rays tend to diverge outward from the source and lose intensity as the distance from the source increases. Light is similarly divergent without a lens. But with the Kumakhov lens, X-ray beams with a large initial divergence and a broad energy range can for the first time be transformed into converging beams or approximately parallel beams. A Kumakhov lens with 2,000 capillaries will be on display on April 2.

Scientists have long known that X-rays, best known for medical and dental

diagnostic applications, can be reflected off solid, smooth surfaces at a very low angle, and that, thus, a single capillary can guide an X-ray through many such small angle reflections. But Kumakhov was the first to suggest "bundling," in effect, thousands of capillaries together to focus and control X-rays. Kumakhov and his colleagues have made capillaries smaller than a human hair.

The prototype lenses constructed by Kumakhov and his colleagues have succeeded in concentrating extremely high densities of X-rays in small spots. Current X-ray equipment used for medical applications does not have that capability and thus, for example, healthy tissue often receives more radiation than the cancerous tissue that's being treated. The new technology holds the potential for far more precise irradiation of inoperable tumors and Soviet scientists have been actively researching that and other medical applications.

The new technology, says Gibson and Kumakhov, may also have far-reaching implications for the computer industry. A major thrust of the industry now is reducing the size of integrated circuit components in order to produce more powerful computer chips, and computer manufacturers have been exploring the use of X-rays to produce narrower circuit lines. But the approaches they've taken thus far have serious drawbacks.

Synchrotrons, for example, can produce powerful, parallel X-ray beams. (A synchrotron is an accelerator and storage ring which guides electrons around an oval or circular path.) But synchrotrons cost from \$25 to \$50 million, and they require high vacuums and can only produce horizontal beams -- two aspects that can slow production processes. X-ray optical devices, coupled with simpler x-ray sources, by contrast, can easily produce intense vertical beams, do not require high vacuums and are expected to cost much less than synchrotrons.

"Computer chip manufacturers are at a critical juncture now in terms of making decisions about the technology they'll use for the next generation of chips. Our research is expected to provide the option for an easy and cost-effective transition to advanced high-density electronic and optical circuit designs," says Gibson.

To launch the new Center for X-ray Optics, the University is providing support for Soviet scientists who will work closely with Albany scientists at the center for the next year. Although initially optical components and measurement techniques will draw strongly from the experience and expertise in Moscow, it is expected that the strong surface and interface characterization program, the thin film fabrication and

study program and the strong advanced materials physics program at Albany will be crucial to further development. This will be especially true as neutron and higher energy X-ray applications are explored.

"The power of the program will be in the continued close collaboration between the University at Albany faculty and students with Soviet scientists," said Gibson. "This will be particularly true in development of scientific and medical applications."

Gibson says the center will explore such matters as new fiber designs and non-fiber structures and will conduct comprehensive tests of the performance and components of the Kumakhov lenses.

Albany's Department of Physics is renowned for its expertise in the physics of solids, particularly the interaction of radiation with solids, and that expertise, along with Albany's nuclear accelerators and other advanced equipment, will be harnessed to support the new center. In addition to Gibson, seven other Albany scientists will be associated with the center.

U.S. and international patents have been applied for on the work done so far by the Soviet scientists. A company, X-Ray Optical Systems, Inc., of Voorheesville, N.Y., of which Gibson is a director and his son David is president, has been established to pursue commercial applications and to provide a means of manufacturing optical components and systems for scientific as well as commercial use. Kumakhov is a consultant to the company. Patents based on work done at the University will be controlled by the Research Foundation of SUNY.

For further information, please contact Gibson directly at (518) 442-4484.

March 28, 1991

MURADIN A. KUMAKHOV

Muradin A. Kumakhov, the inventor of the special X-ray optical system, is the head of the laboratory for the study of crystals with radiation at the I.V. Kurchatov Institute of Atomic Energy in Moscow. For over 20 years, he has been researching different aspects of ion channeling and he is regarded as one of the world's experts in channeling radiation, the emission of radiation from channeled particles.

In 1986, in an article on radiation of channeled particles, Kumakhov suggested the possibility for a new X-ray, neutron and charged particle optics based on multiple scattering between solid curved surfaces. During the research that followed, he designed and manufactured the X-ray lenses that could revolutionize many applications of X-rays.

WALTER M. GIBSON

Walter M. Gibson, director of the Center for X-ray Optics at the University at Albany, has been a professor of physics at Albany since 1976. Prior to that, he was a research scientist for 19 years at AT&T's Bell Laboratories.

Since 1964, Gibson has been active in studies of particle channeling and has published over 150 papers on the topic. His interest in channeling phenomena led to discussions and collaboration with Kumakhov beginning in about 1970. In May 1990, during a visit by Gibson to the Soviet Union to attend two conferences on ion channeling and channeling radiation, Kumakhov suggested that a collaborative program be established to study and develop the new X-ray optics technology.

New Soviet-U.S. X-ray Lens Is Developed

By JOHN MARKOFF

An American and a Soviet scientist said yesterday that they had developed a new type of X-ray lens capable of focusing powerful beams that can be used in manufacturing a new generation of extremely powerful computer chips. The lens can also be used in a variety of other scientific and medical applications.

Muradin A. Kumakhov, a physicist at the I. V. Kurchatov Institute of Atomic Energy in Moscow and Walter Gibson, director of the Center for X-Ray Optics at the State University of New York at Albany, said that Soviet researchers had created the lens by bundling thousands of tiny hollow glass capillaries that guide X-rays. The bundling permits X-rays to be focused in tight beams or to be projected in parallel. Normally, X-rays tend to diverge outward from a source and to lose intensity over distance.

Developed Over Five Years

The basic technology was developed over the last five years by Dr. Kumakhov and other Soviet researchers. The Soviet and American scientists recently formed a partnership to commercialize X-ray optics technology. "It will take some development effort," Dr. Gibson said, "but we don't see any barriers to applying this to manufacturing semiconductors."

A number of United States and Japanese corporations have been exploring the use of X-rays as a light source for making extremely dense

semiconductor chips.

The scientists call the new device a Kumakhov lens and demonstrated a working model consisting of 2,000 glass capillaries. Physicists have long known that X-rays can be reflected off solid smooth surfaces at a very low angle. However, Dr. Kumakhov first suggested the "bundling" of thousands of capillaries to focus and control X-rays.

Finer Than a Human Hair

Although the researchers said they had fabricated capillaries finer than a human hair, about 70 microns, the capillaries are generally several hundred microns in diameter.

Both the Japanese corporations and the International Business Machines Corporation have been developing semiconductor lithographic systems using an extremely bright X-ray source known as synchrotron radiation. Several start-up companies in the United States have also been experimenting with alternative laser-based X-ray sources.

Industry researchers said yesterday that information about the Kumakhov lens was preliminary, but that such a technique, or a variation, might have applications in both synchrotron and single-source X-ray lithography applications.

Great Deal of Debate

"The basic physics of what they say is sound," said John M. Warlaumont, manager of X-ray and ion beam research at I.B.M.'s Yorktown research laboratory. "They've done research that has caught our interest. It's worth investigating."

There is still a great deal of debate over how soon X-ray technologies will be needed for advanced semiconductor chips. It was once widely thought that conventional light sources lacked the resolving power to produce chips as dense as 64 million bit memory devices. But now many in the industry believe that advances in conventional semiconductor manufacturing techniques will facilitate going at least to 64 million and perhaps to 256 million bit memory chips without relying on X-rays.

That would be desirable because using X-rays would require that exotic mask-making techniques be developed, a thorny problem. Indeed, many in the industry are skeptical about X-rays as a result.

In addition to semiconductor manufacturing, Dr. Gibson said yesterday in a telephone interview, the Kumakhov lens could potentially be used to treat localized tumors, in the diagnosis of cardiovascular malfunction, in three-dimensional imaging and in analysis of complex biological and other systems and to improve many other processes in which X-rays are used.

Dr. Gibson said that he had worked with Dr. Kumakhov for almost two decades. They have studied the channeling of high-energy particles through crystals, for example.

Applications are pending for both United States and international patents on the work done so far by the Soviets. Dr. Gibson said that with his son David he had set up a company, X-Ray Optical Systems Inc., in Voorheesville, N.Y., and that Dr. Kumakhov was a consultant to the company.

Technology

A biotechnology company that is years away from having a product has raised \$99 million in an initial stock offering. The success of Regeneron Pharmaceuticals suggests that the capital shortage threatening young biotechnology companies is over. [D1.]

Designing a new generation of faster and smarter computer office networks is critical because they are increasingly the bottleneck in the most advanced computing systems. [D6.]

A new type of X-ray lens that can be used in manufacturing a new generation of extremely powerful computer chips has been developed by an American and a Soviet scientist. [D3.]

The Patent and Trademark Office opened an inquiry to re-examine a disputed patent covering the basic design of chips. [D6.]

TECHNOLOGY & MEDICINE

Soviet, U.S. Physicists Unveil X-Ray Lens That May Have Computer, Medical Uses

By LAURENCE HOOPER

Staff Reporter of THE WALL STREET JOURNAL

Soviet and American physicists unveiled a lens for X-rays that could reduce the cost of making advanced computer chips, improve medical diagnosis, and aid in the treatment of localized tumors.

The lens, a six-inch long collection of tiny glass tubes, seems to solve cheaply a problem that has dogged researchers for years: how to create an intense, focused source of X-ray radiation. But while other scientists confirmed the basic validity of the physicists' work, they cautioned that further experiments are needed to determine its commercial viability for several possible uses.

"The physics is correct, these guys are bright—there's nothing fundamentally wrong anywhere," said Gwyn Williams, a physicist at Brookhaven National Laboratory on Long Island, N.Y. "What's needed now is a lot more basic research and development on possible applications. It's so early to be announcing something like this."

Far-Reaching Implications

Walter Gibson, a physicist at the State University of New York at Albany and one of the X-ray lens' developers, gave a seminar on the new technology at Brookhaven last month.

If the new lens proves out, it will have far-reaching implications in several fields. In the computer industry, for example, the tiny electrical circuits on silicon chips are etched in much the same way photographs are developed—by shining light through a "mask" onto a light-sensitive material. But for circuits to get tinier and denser,

experts expect X-rays will have to replace light as the source of illumination for future generations of chips.

Until now, research on X-ray lithography, as such a chip-making process is called, has been stymied by the difficulty of channelling enough intense X-rays to expose a chip quickly. As a result, most efforts have focused simply on making sources of X-rays more powerful—a very expensive approach that has led to the building of several synchrotrons, huge ring-shaped devices that produce intense X-rays and can cost as much as \$50 million each. This approach has also led smaller chip-makers to fret that only giant companies will be able to afford to make the dense chips of the future.

But now, said Dr. Gibson, the prospect of an effective X-ray lens should level the playing field by allowing chip makers to use conventional X-ray sources for lithography. "This makes [X-ray lithography] available for many small manufacturers that can't afford to spend huge sums of money," he said.

Further Exploration

A spokesman for International Business Machines Corp., which has already built a synchrotron in East Fishkill, N.Y., and is considered a leader in X-ray lithography, said the company had been briefed by Dr. Gibson on the new X-ray lens. "It falls into the category of ideas that are important to explore further," the spokesman said. He noted that producing intense X-rays is only one of several major problems faced in X-ray lithography, and that an X-ray lens would magnify the abilities of a synchrotron.

In the medical arena, focusing X-rays would likely allow doctors to take more precise pictures of small features like arteries. Scientists said the lens would also aid in cancer therapy, because the ability to concentrate X-rays in a particular location would greatly reduce the dangers of radiation therapy. Current X-ray therapy often exposes healthy tissue to more radiation than is absorbed by a local tumor, Dr. Gibson said.

Moreover, no further experimentation needs to be done to prove the value of the lens in therapy, said Dr. Williams of the Brookhaven National Laboratory. "They have demonstrated that they can concentrate X-ray energy," he said. "I'm satisfied that [the lens] would be useful there."

On a more mundane level, effective X-ray focusing might mean, for example, that dental patients wouldn't need to wear bulky lead shields when they get their teeth X-rayed. "In the future, every machine in which X-rays are used will include some [of the new] optics," said Dr. Gibson.

The X-ray lens, invented in the early 1980s by a Soviet physicist named Muradin Kumakhov, doesn't use any radical technology. The main principle employed by the device—that X-rays can be reflected off smooth surfaces at very slight angles—has been known for decades, and is the basis for several large X-ray telescopes.

Dr. Kumakhov's insight was that the phenomenon could channel X-rays through large bundles of tiny glass fibers, each of which would bend a small amount of X-ray energy by "bouncing" it off the fiber's smooth walls. By tapering the fibers toward one another, the energy could then be focused on a small spot.

* * *

Soviet and U.S. physicists unveiled a new lens for X-rays that could reduce the cost of making advanced computer chips, improve medical diagnosis and aid in the treatment of localized tumors. (Story on Page B8)

* * *

THE WHITE HOUSE

WASHINGTON

April 25, 1991

Dear Bill:

Many thanks for your letter of April 4. As you can perhaps imagine things are a little hectic here at this time of year. This week, for example, I have four hearings in the Congress plus five major speeches quite apart from all the more normal activities of the office.

It is difficult, indeed, to believe that Catherine is now a senior. It seems like only about 18 months since she was born!

Having survived seven years as Chairman of the Yale Department I can, on the basis of real experience, offer you both congratulations and condolences on your appointment as Chair of the Albany Physics Department. You and your colleagues can be well pleased with what you have accomplished with that department since your arrival.

I can assure you that the selection of PYIs is something carried out entirely within the National Science Foundation at this point, although in coming years, the White House will be very much more closely involved. It turns out that this whole program was invented by Jay Keyworth without any involvement of the White House and since its initiation, it has been handled entirely by the NSF. I have taken action this year to make sure that in future the President is much more involved in at least a part of the program and that the Presidential Young Investigators, or whatever they end up being called in the new system, really do get highly visible national recognition.

You will understand that, under the circumstances, I simply cannot influence NSF decisions in selection of the PYIs but I can make sure that they understand that SUNY Albany is a department with which to be reckoned.

I found the press release on X-ray optics technology to be fascinating indeed. It seems that Walter has made a major step forward with his Soviet colleagues and as you note, there are obviously a very large variety of applications for such an optical element.

I will make sure that some of the right people here in Washington get to look at the press release and associated publicity. Thanks for sending the copy to me.

Whenever your travels next bring you to the Washington area please let me know, it would be good to see you again and compare notes. Please also give my very best regards to Walter, to Wilfried, and all my other friends and acquaintances at Albany.

With all best wishes,

Sincerely yours,



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

Professor William A. Lanford
Physics Department
State University of New York at Albany
Albany, New York 12222

"CORRESPONDENCE TRACKING"

TYPE: CONGRESSIONAL

DOCUMENT NUMBER: 9121163

FROM: CHANDLER, Rod: HOUSE OF REPRESENTATIVES

TO: DR. BROMLEY

DATE OF
CORRESPONDENCE: 04/04/91

SUBJECT: REQUEST FOR INFORMATION CONCERNING THE PROPOSED
EFFORTS TO LIMIT OR ALTER THE NUMBER OF MEDALS
AWARDED UNDER PUBLIC LAW 86-209.

ASSIGNED TO: D. Allan Bromley

for Damar Hawkins

DAB
How do you wish
to respond to this?
I understand
the legislation
is
"close
hold"

ACTION REQUIRED: RESPONSE

SENDER'S DUE DATE:

OSTP DUE DATE:

04/24/91

DATE COMPLETED:

COPIES TO: Damar Hawkins
Ken Yale
Michelle Van Cleave

See
Attached
background
4/30

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED: 04/18/91

FILE:

AAB
*AWARDS * Congressional*

ROD CHANDLER
EIGHTH DISTRICT, WASHINGTON

COMMITTEES:
WAYS AND MEANS
POST OFFICE AND CIVIL SERVICE

223 CANNON BUILDING
WASHINGTON, DC 20515
(202) 225-7781

Congress of the United States
House of Representatives
Washington, DC 20515

DISTRICT OFFICE:
50 116TH AVENUE SE.
SUITE 201
BELLEVUE, WA 98004
(206) 442-0116

RECEIVED
01 APR 18 P 4: 31
OFFICE OF THE
DIRECTOR

April 4, 1991

Office of Science and Technology Policy
ATTENTION: Dr. Allan Bromley
Old Executive Office Building
17th Street & Pennsylvania Avenue, N.W.
Washington, DC 20506

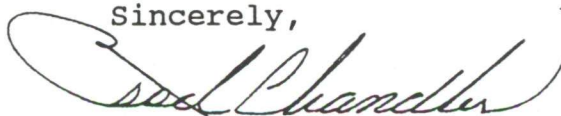
Dear Dr. Bromley:

I am writing to you regarding Public Law 86-209 which authorizes the President to award National Science Medals to outstanding scientists.

As you know, current law provides for the President's Committee on National Medals of Science to make recommendations of outstanding scientists. Then, up to, but no more than, twenty (20) National Science Medal contenders may be recommended by the National Academy of Sciences. Based upon this final recommendation list, the President awards these medals to outstanding scientists for their achievements. Such a prestigious medal embodies the deep appreciation held by this nation for the exceptional efforts of these fine scientists.

In light of the merit of such an award, a constituent of mine has expressed concern over proposed efforts to limit or alter the number of medals awarded in order to increase public interest. Therefore, since there have been no legislative hearings held on such a proposal, I would appreciate any information that you could provide to me on this matter. Thank you in advance for your assistance.

Sincerely,



ROD CHANDLER
Member of Congress

RDC/kl

20007

MEMORANDUM FOR THE FILE

SUBJECT: Telephone Inquiry, Congressman Rod Chandler's Office

DATE: March 1991

Received a telephone call from Damar Hawkins, OSTP, to contact a member of Congressman Rod Chandler's (Representative from Washington) staff re a constituent's concern over the "possibility of reducing the number of Medal of Science Awards presented by the National of Sciences from up to 20 in any given year," to a maximum of "6 in any given year."

I explained that:

- the Award was Presidential and bestowed on the awardee in a White House Ceremony attended by the President; Assistant to the President for Science & Technology (Director, OSTP); other local dignitaries; recipients, and members of their families;

- that the National Academy of Sciences did not make the final recommendations; there was a 12 member, Presidentially-appointed Committee that reviewed all nominations received for consideration in any given year, plus the past three years' nominations (up to 350 nominations total) and made their recommendation of 20 finalists, plus 5-6 alternates to the Assistant to the President for S&T and the President;

- the involvement of NAS was by ex officio membership of the President, NAS, on the Committee, whereby he reviewed nominations under consideration;

- by Executive Order the Medal was administered by the National Science Foundation, reporting directly to the Director, OSTP.

I inquired as to who made the inquiry and was told a Mr. Ron[ald] Carlson had expressed concern with the possible reduction of the number of medals to six, accompanied by a monetary award. (Note: Mr. Carlson is a member of the President's Committee on the National Medal of Science; term expires December 31, 1991.)

Mr. Chandler's staff member was informed that Mr. Carlson is an active member of the President's Committee on the National Medal of Science and, therefore, had access to information given by Dr. D. Allan Bromley, Assistant to the President for S&T (and also an ex officio committee member) during a closed committee meeting in October 1990. Further informed the staff member that because I had also attended the Committee meeting, I was aware of a proposed change to the number of awards, but did not know any

formal details. Suggested that any inquiries should be directed to Dr. Bromley's Office.

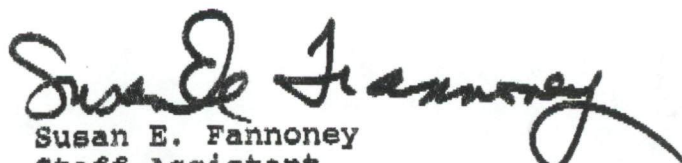
After speaking with the staff member, I was left with the impression that no further action would be taken as Mr. Carlson's inquiry came out of information given at a closed meeting. (Note: Although portions of Committee meeting minutes not containing privileged information are available to the general public, there have been no requests for same.) Following are excerpts from the last two meetings where the "OSTP Prizes Bill" (NSF nomenclature) was discussed:

October 9, 1990: . . . Dr. Bromley stated that legislation to change the structure of the awards to six in science and six in technology, with a cash award of \$200,000 to each awardee, was under consideration at Office of Management and Budget (OMB) and in Congress. Legislation is proceeding and should be in place for the 1992 Awards. . .

October 27, 1989: . . . In response to specific questions, Dr. Bromley indicated that legislation had been introduced to reduce the current numbers of MOS/MOT recipients to six in any given year who will also receive a monetary prize of \$200,000 along with the Award. He noted that this change is not likely to effect the 1990 class of recipients. Dr. Bromley also noted that a change in the structure of the award (specifically the numbers presented) was called for in order to draw more media attention. Hopefully, adding a cash prize to the award will help to accomplish this. The idea to reduce the numbers of awards was initiated by NSF in a letter to OMB two years ago. The idea has now resurfaced and has Dr. Bromley's full support.

Dr. Bromley went on to say that the proposed legislation would change the selection criteria to be used and further, may eliminate the use of discipline categories. . . . He also noted that the proposed accompanying cash award is not intended to motivate the individual, but to increase visibility for the Award through expanded media coverage, and to make the recipients more effective as role models, thereby giving science a "boost."

Dr. Bromley, as well as the Committee, believed that the Medal should be awarded for a lifetime of scientific contributions, as opposed to the Nobel Prize, which is for a specific achievement. . .


Susan E. Fannoney
Staff Assistant
President's Committee on the
National Medal of Science

9121163
ROD CHANDLER
EIGHTH DISTRICT, WASHINGTON

COMMITTEES:
WAYS AND MEANS
POST OFFICE AND CIVIL SERVICE

223 CANNON BUILDING
WASHINGTON, DC 20515
(202) 225-7761

DISTRICT OFFICE:
50 116TH AVENUE SE.
SUITE 201
BELLEVUE, WA 98004
(206) 442-0116

Congress of the United States
House of Representatives
Washington, DC 20515

April 4, 1991

OFFICE OF THE
DIRECTOR

91 APR 18 P 4:31

RECEIVED

Office of Science and Technology Policy
ATTENTION: Dr. Allan Bromley
Old Executive Office Building
17th Street & Pennsylvania Avenue, N.W.
Washington, DC 20506

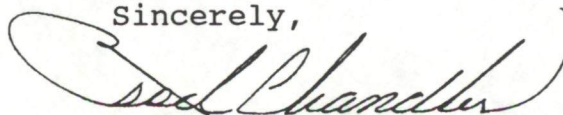
Dear Dr. Bromley:

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As you know, current law provides for the President's Committee on National Medals of Science to make recommendations of outstanding scientists. Then, up to, but no more than, twenty (20) National Science Medal contenders may be recommended by the National Academy of Sciences. Based upon this final recommendation list, the President awards these medals to outstanding scientists for their achievements. Such a prestigious medal embodies the deep appreciation held by this nation for the exceptional efforts of these fine scientists.

In light of the merit of such an award, a constituent of mine has expressed concern over proposed efforts to limit or alter the number of medals awarded in order to increase public interest. Therefore, since there have been no legislative hearings held on such a proposal, I would appreciate any information that you could provide to me on this matter. Thank you in advance for your assistance.

Sincerely,



ROD CHANDLER
Member of Congress

RDC/kl

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

May 8, 1991

Dear Congressman Chandler:

Thank you for your letter regarding the National Medals of Science and Technology. I appreciate your support for this program and for recognizing outstanding men and women of science. With science and technology becoming increasingly important to so many aspects of our lives, it is only fitting that we provide prestigious awards to recognize important contributions to science.

The Administration has been examining proposals to raise the visibility and prestige of the National Medals of Science and Technology. For example, there have been recommendations to reduce the number of medals to be awarded each year and to provide cash awardees to the recipients. These proposals are still under review, and no formal action has yet been taken. Should legislation be needed to make any such changes, there will be open and complete discussions with the appropriate committees and members of Congress.

Again, let me express my appreciation for your interest in the National Medals of Science and Technology. This is an important matter, and I am glad to hear of your support for these awards.

Sincerely,



D. Allan Bromley
Director

The Honorable Rod Chandler
United States House of Representatives
Washington, D.C. 20515

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9120617

FROM: ROBERTS, John D.: CALIFORNIA INSTITUTE OF TECHNOLOGY

TO: DR. BROMLEY

DATE OF
CORRESPONDENCE: 02/26/91

SUBJECT: A THANK YOU LETTER REGARDING THE NATIONAL MEDAL OF
SCIENCE AWARDS.

ASSIGNED TO:

ACTION REQUIRED:

SENDER'S DUE DATE:

OSTP DUE DATE:

DATE COMPLETED: -----

COPIES TO: D. Allan Bromley
Damar Hawkins

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED: 03/04/91

FILE: *P-DAB*
AWARDS-MEDAL OF SCIENCE

920617

CALIFORNIA INSTITUTE OF TECHNOLOGY

Pasadena, California 91125

91 MAR 4 P 3: 00

Division of Chemistry and Chemical Engineering
Gates and Crellin Laboratories of Chemistry

OFFICE OF THE
DIRECTOR

John D. Roberts
Institute Professor of Chemistry, Emeritus

February 26, 1991

Dr. D. Allan Bromley
Assistant to the President
for Science and Technology
The White House
Washington, DC 20500

Dear Dr. Bromley:

Lately I received a wonderful package from Susan Fannoney and it was very heartwarming that the President was willing and able to take time from his busy schedule to sign the really beautiful citation for the National Medal of Science as well as the pictures of the recipients with him and Mrs. Bush. My only regret was that you were not included in that picture. It was wonderful too to get the videotape of the proceedings.

I have heard a rumor that next year there will be fewer recipients and a generous fiscal reward. If so, I am glad to have gotten under the wire before they really started to get picky!

Again, my thanks to the President and to you for all you are doing, and to Ms. Fannoney for her successful efforts to get everything together for us.

With best wishes,

Very truly yours,

John D. Roberts

P.S. At the time of the ceremony, I thanked President Bush for his support of science and he said, "Thank Allan Bromley, he is doing a great job".

cc: Ms. Susan Fannoney

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9120631

FROM: BROWN, Faith and Nancy Lewis

TO: DR. BROMLEY

DATE OF
CORRESPONDENCE: 02/24/91

SUBJECT: A THANK YOU LETTER FROM RECIPIENTS OF THE
PRESIDENTIAL AWARD FOR EXCELLENCE IN ELEMENTARY
SCIENCE AND MATHEMATICS TEACHING.

ASSIGNED TO:

ACTION REQUIRED:

SENDER'S DUE DATE:

OSTP DUE DATE:

DATE COMPLETED:

COPIES TO: D. Allan Bromley
Damar Hawkins
Thomas Ratchford

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED: 03/04/91

FILE: *P- DAB* AWARDS-~~PRESIDENTIAL~~

9120631
RECEIVED

Presidential Awards for Excellence



91 MAR 4 1991
OFFICE OF THE
DIRECTOR

in Science and Mathematics Teaching, Mississippi 1990

Faith Brown, Science and Nancy Lewis, Mathematics

W. L. Smith Elementary School

400 Hillcrest Loop

Petal, Mississippi 39465

February 24, 1991



Dr. D. Allan Bromley
Assistant to the President for Science and Technology
Office of Science and Technology
Old Executive Office Building
17th & Pennsylvania Avenue, N. W.
Washington, D. C. 20506

Dear Dr. Bromley,

As recipients of the Presidential Award for Excellence in Elementary Science and Mathematics Teaching, we appreciate all that you and the National Science Foundation, National Science Teachers Association, and National Council of Teachers of Mathematics did to make our week in Washington D C very memorable and special. It is a very special feeling to be a part of the first group of Elementary Presidential Awardees to receive this award.

After spending much hard work and waiting to find out if we won the award nothing could have prepared us for the week we spent in Washington D. C. Thank you seems so inadequate to express how we feel to those of you that made the week outstanding and one that we will never forget.

The education of our youth is an undertaking that will take all Americans working together to accomplish. Science and mathematics education is an area that is especially important in our ever changing world. It is indeed gratifying to see this award expanded to include elementary teachers because it is in the elementary school years that children are either turned on or off to science and mathematics. It takes inspired teachers to provide the climate necessary to prepare children for the technological world they will one day face as adults. To provide teachers with not only the respect that they deserve but to provide them with outstanding awards is necessary to keep the good teachers in the classroom. Thank you again for allowing us to be a part of history in the making.

Sincerely yours,

Faith Brown

Faith Brown, MS

Presidential Awardee

Nancy Lewis

Nancy Lewis, MS

Presidential Awardee

ns1

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9120362

FROM: ASSISTANT DIRECTOR, (EDUCATION AND HUMAN RESOURCES)

TO: DR. BROMLEY

DATE OF
CORRESPONDENCE: 02/11/91

SUBJECT: SCHEDULE FOR 1991 PRESIDENTIAL AWARDS FOR EXCELLENCE
IN SCIENCE AND MATHEMATICS TEACHING

ASSIGNED TO:

ACTION REQUIRED:

SENDER'S DUE DATE:

OSTP DUE DATE:

DATE COMPLETED:

COPIES TO: D. Allan Bromley
Damar Hawkins

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED: 02/12/91

FILE: ^{P- DAB} ~~PRESIDENTIAL~~ AWARDS

NATIONAL SCIENCE FOUNDATION

1800 G STREET, N.W.
WASHINGTON, D.C. 20550

RECEIVED



OFFICE OF THE
ASSISTANT DIRECTOR
FOR EDUCATION AND
HUMAN RESOURCES

91 FEB 12 AM 11

OFFICE OF THE
DIRECTOR

February 11, 1991

TO: Dr. D. Allan Bromley
Assistant to the President for Science and Technology
Policy

FROM: Assistant Director, Education and Human Resources

VIA: Dr. Frederick M. Bernthal, *FB* Acting Director

SUBJECT: Schedule for 1991 Presidential Awards for Excellence
in Science and Mathematics Teaching

We will schedule the award week ceremonies here in Washington for the 1991 recipients of the Presidential Awards for Excellence in Science and Mathematics Teaching as follows: those for elementary science and mathematics awardees in the fall of this year and for the secondary teachers of science and mathematics in the spring of 1992. In discussions between Dr. Yale, Ms. Hawkins, and our staff members, it was agreed that this fall/spring format best balances the various considerations of White House involvement, award week logistics, and media coverage of the awards, and is compatible with your preferences. This memo confirms our agreement with that general schedule. Our staff will work with yours to select the exact dates.

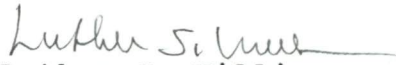
All awards will be announced in 1991 and will be designated 1991 awards, even though the secondary teachers will not actually come to Washington for the award ceremonies until spring 1992. The NSF grants of \$7500 to each awardee's school will come from our 1991 budget and will, therefore, have to be processed by September 30. As in previous years, we need the cooperation of your staff in obtaining White House clearance for the awardees recommended by our National Selection Committee and in sending out the announcements in a timely fashion so that the grants can be made in this fiscal year.

In future years we believe this fall/spring format will continue to be the preferred one, but we will arrange to have the secondary teacher awards announced and grants made late in the fall to reduce the time lag between announcement and award ceremony. This year, however, we cannot do this because of existing operating plan commitments.

Dr. Bromley

2

We greatly appreciate the very strong support you and your staff have given us in this Program.


Luther S. Williams

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9120566

FROM: WEBER, Peggy: NATIONAL SCIENCE FOUNDATION

TO: DR. BROMLEY

DATE OF
CORRESPONDENCE: 01/31/91

SUBJECT: BACKGROUND INFORMATION FOR DR. BROMLEY'S MEETING
WITH DR. FREDERICK BERNTHAL, DR. JOHN WHITE AND DR.
MARY CLUTTER ON FRIDAY, FEBRUARY 1, 2:00PM

ASSIGNED TO:

ACTION REQUIRED:

SENDER'S DUE DATE:

OSTP DUE DATE:

DATE COMPLETED:

COPIES TO: D. Allan Bromley

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED: 01/31/91

FILE: *P-DAB*
AWARDS

9120566

NATIONAL SCIENCE FOUNDATION
1800 G STREET N.W. • WASHINGTON, D.C. 20550



OFFICE OF THE
ASSISTANT DIRECTOR
FOR BIOLOGICAL, BEHAVIORAL,
AND SOCIAL SCIENCES

January 31, 1991

51 JAN 31 P 4: 48

OFFICE OF THE
DIRECTOR

Office of the Assistant to the President
for Science and Technology

The attached is background information for Dr. Bromley's meeting with Dr. Frederick Bernthal, Acting Director, NSF; Dr. John White, Acting Deputy Director, NSF; and Dr. Mary E. Clutter, Assistant Director, BBS/NSF; on Friday, February 1, 2:00 p.m.

Peggy Weber
Secretary to the
Assistant Director, BBS

Presidential Young Investigators

Background

- o Program established in FY 1984 with the objectives of 1) keeping "the best and the brightest" young faculty involved with teaching and research and, 2) promoting a partnership among universities, government and industry.
- o PYI awards are based on **nominations** by department chairs or deans; merit review by special panels based on nomination letter, letters of reference, and nominee statements of research interests and CVs.
- o Typically 200 awards have been made annually, with 100 to ENG (original focus based on perceived "brain drain" from academia to industry) and the remainder spread across disciplines (Directorates) based on perceived need.
- o PYI awards provide five years of support of up to \$100K/yr. NSF provides the first \$25K and matches other contributions. Thus, NSF pays a maximum of \$62.5K/yr for each award.
- o Many accomplishments accrue to the PYI Program to date. Over 1200 young faculty have been put on a "fast track" because of the PYI opportunity.

Issues

- o The success rate varies across disciplines leading to the perception that "success" for PYIs is higher than for regular proposals. In some programs as much as 20% of the annual budget is invested in PYI's.
- o The PYI review is seen as a "beauty contest" (comparison of CVs, attend the "right" schools, study under the "right" person, etc.) because no proposal is required.
- o Although the possibility of matching funds was a motivation to PYIs to seek such support, success has been mixed. For example, an industrial match leading to collaborative research has not been fully realized.
- o No differences between PYI and non-PYI groups with respect to **perceptions** of innovation in their research; too little focus on the impact of the PYI on educational activity as a basis for and requirement of the PYI award.
- o PYI awards do not satisfy the need for research initiation awards across all disciplines.

Possible Solutions

- o A more highly selective approach; reduce number of awards from 200 to approximately 100. Such a reduction would stress the honorific value of the PYI award.
- o Change criteria to emphasize **early achievements as a faculty member** and further potential for innovation in both teaching and research. This would add substance to the review and reduce the concern that the PYI is a "beauty contest."
- o Increase the base award size from \$25K/yr to \$40K/yr for 5 years and retain the matching opportunity. Assist the PYIs in possible industrial contacts by preparing and distributing a brochure highlighting interests and accomplishments of PYI awardees.
- o Selection as a PYI is an honorific award based on the potential of the nominee, not on a particular competing research project. Therefore, research initiation awards are not a suitable substitute. A separate agency-wide research initiation program should be considered.

Mary

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9120306

FROM: BERGER, SUE ANNE

TO: DR. BROMLEY

DATE OF
CORRESPONDENCE: 01/25/91

SUBJECT: 1990 COLORADO SCIENCE PRESEIDENTIAL RECIPIENT

ASSIGNED TO:

ACTION REQUIRED:

SENDER'S DUE DATE:

OSTP DUE DATE:

DATE COMPLETED:

COPIES TO: Damar Hawkins
D. Allan Bromley

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED: 01/30/91

FILE: PRESIDENTIAL AWARDS



JEFFERSON COUNTY PUBLIC SCHOOLS

BEAR CREEK HIGH SCHOOL
3490 S. Kipling Street
Denver, Colorado 80227

January 25, 1991

Dear *Dr. Bromley*

As the recipient of the 1990 Colorado Science Presidential Award I would like to send this special **THANK YOU** for the wonderful recognition. The trip to Washington D.C. will never be forgotten. You will never know how good it felt to be treated like such a superior teacher. Teaching is a great profession.

The gifts are still coming in and they are outstanding. Everything that has been received is being used by the science and mathematics teaching staff at Bear Creek High School. We think it is Christmas every week.

The reason this letter is so late in coming is I wanted to give you an update on what is happening with the \$7500 grant and the proposal I submitted. The money is in an interest account with the planning stages for its use well underway. To refresh you memory, the proposal was to provide chemistry shows for elementary and middle/junior high students and their teachers. In addition to doing the "SMOKE" Shows, I am also teaching chemistry to elementary teachers.

The **UPDATE** is rather exciting. The Chevrolet dealers in the Denver, CO, area have loaned me a custom made 1991 Astro Van worth \$16,100 to carry the show stuff and the high school students that go along to present the shows. It gets better, they paid the insurance and license plate fees, another \$1,500. This is set up to be renewable each year for three years. Wow, what a start.

Now for the other things in the making. A major oil company is reviewing the possibility of giving me a gas credit card to cover the expenses of operating and maintaining the van. The top amount has been set at \$1,900. They are also looking at the possibility of donating matching funds to the grant account. They are considering half pay for release time for preparation. Wow!

January 25, 1991

Dear

As the recipient of the 1990 Colorado Science Presidential Award I would like to send this special **THANK YOU** for the wonderful recognition. The trip to Washington D.C. will never be forgotten. You will never know how good it felt to be treated like such a superior teacher. Teaching is a great profession.

The gifts are still coming in and they are outstanding. Everything that has been received is being used by the science and mathematics teaching staff at Bear Creek High School. We think it is Christmas every week.

The reason this letter is so late in coming is I wanted to give you an update on what is happening with the \$7500 grant and the proposal I submitted. The money is in an interest account with the planning stages for its use well underway. To refresh your memory, the proposal was to provide chemistry shows for elementary and middle school high students and their teachers. In addition to doing the "SMOKE" Shows, I am also teaching chemistry to elementary teachers.

The **UPDATE** is rather exciting. The Chevrolet dealers in the Denver, CO area have loaned me a custom made 1991 Astro Van worth \$16,100 to carry the show stuff and the high school students that go along to present the shows. It gets better, they paid the insurance and license plate fees, another \$1,500. This is set up to be renewable each year for three years. Wow, what a start.

Now for the other things in the making. A major oil company is reviewing the possibility of giving me a gas credit card to cover the expenses of operating and maintaining the van. The top amount has been set at \$1,900. They are also looking at the possibility of donating matching funds to the grant account. They are considering half pay for release time for preparation. Wow!

There's more. Many other grant proposal are in the making. I am well underway in dealing with business, industry and the private sector to help with varies items needed to make the "SMOKE" SHOW the best in Colorado by giving cash donations or reduction [50/50 or 60/40] costs on equipment.

The deals in the making include an Apple Computer System [\$4599], a Canon copy machine [\$3199], an 8 mm Camcorder [\$999]. US West Cellular phone [\$1595], and even consumable grocery store items and chemicals [\$2200]. Every professional I have talked with and now have sent a written proposal are very eager to contribute to science education.

It is very exciting to be able to do what I've been doing but continue in high fashion and not at my expense. Just wanted you to know what the PAESMT Award can do for a teacher.

Sorry this letter took so long but I have been productively busy getting my ducks in a row. Thanks again for you planning and hard work that made the trip to D.C. so very special for me. Colorado has done an excellent job of recognition as well. The news media [newspapers and television] have treated this educational award with respect. Thanks for everything.

Sincerely,



Sue Anne Berger
6372 South Annapurna Drive
Evergreen, CO 80439
(303) 674-7386

PS WOULD LOVE A LIST OF 1983-1989 PAESMT.

PSS I can't believe that any teacher would have gotten down on IBM. I used this to my advantage with Apple. So my lotto number was 59 and the computers ended at 54, oh well. It was an inspiration for me to move forward. Have you thought of asking Flinn Scientific, Inc. for donations? Maybe even other chemical companies would like to be part of the program.

There's more. Many other grant proposals are in the making. I am well underway in dealing with business, industry and the private sector to help with various items needed to make the "SMOKEL" show the best in Colorado by giving cash donations or reduction (\$500 or \$600) costs on equipment.

The deals in the making include an Apple Computer System (\$4500), a Canon copy machine (\$3100), an 8 mm camcorder (\$300), US West Cellular phone (\$150), and even consumable grocery store items and chemicals (\$2200). Every professional I have talked with and now have sent a written proposal are very eager to contribute to science education.

It is very exciting to be able to do what I've been doing but continue in high fashion and not at my expense. Just wanted you to know what the PAESMT Award can do for a teacher.

Sorry this letter took so long but I have been productively busy getting my ducks in a row. Thanks again for your planning and hard work that made the trip to D.C. so very special for me. Colorado has done an excellent job of recognition as well. The news media (newspapers and television) have treated this educational award with respect. Thanks for everything.

Sincerely,

Shirley Berger
6375 South Annabourne Drive
Evergreen, CO 80439
(303) 674-7386

92 WOULD LOVE A LIST OF 1983-1989 PAESMT

928 I can't believe that any teacher would have gotten down on IBM. I used this to my advantage with Apple. So my letter number was 59 and the computer's ended at 54, oh well. It was an inspiration for me to move forward. Have you thought of asking Flynn Scientific, Inc for donations? Maybe even other chemical companies would like to be part of the program.

3/11

Mary,

Thought that you might want
to attach the attachment to the
original cover sheet....

Marian

Document Originally
Attached to
Following Page

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9120188

FROM: SHERBURNE, E.G.

TO: DR. BROMLEY

DATE OF
CORRESPONDENCE: 01/22/91

SUBJECT: 50TH ANNIVERSARY OF THE WESTINGHOUSE SCIENCE TALENT
SEARCH (REQUEST TO KEEP THE EVENING OF 03/04/91
OPEN)

ASSIGNED TO: D. Allan Bromley

ACTION REQUIRED:

SENDER'S DUE DATE:

OSTP DUE DATE:

DATE COMPLETED:

COPIES TO: Damar Hawkins

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS: FORMAL INVITATION TO FOLLOW

DATE RECEIVED: 01/25/91

FILE: AWARDS-INVITE

SCIENCE SERVICE

1719 N STREET, N.W., WASHINGTON, DC 20036 • 1-202-785-2255

January 22, 1991

Dr. D. Allan Bromley
Science Advisor to the President and
Director, Office of Science and Technology Policy
Executive Office of the President
New Executive Office Building, Room 5013
725 17th Street, N.W.
Washington, DC 20506

81 JAN 25 AM 11:17

OFFICE OF THE
DIRECTOR

Dear Allan:

This March, Science Service and Westinghouse will celebrate the 50th anniversary of the Westinghouse Science Talent Search, the preeminent national science scholarship competition for high school seniors.

We hope that you will be able to join us at the Washington Hilton at the Awards Banquet on the evening of March 4. The President has been invited to speak, and we expect it to be the largest and most prestigious gathering of the Washington scientific community in many years.

The banquet will honor the 40 current national finalists as well as the 1,960 winners who have preceded them in the past 49 years and have been invited back to celebrate with us. Almost all have gone on to become scientists, and among them there are five Nobel Laureates, two Fields Medalists, and eight MacArthur Fellows.

As you may recall, each year 40 winners are selected on the basis of the quality of an independent research project in science, mathematics or engineering, and only secondary importance is given to academic achievement.

The STS serves as a means of encouraging an interest in science. At a time when so many of our able students are being siphoned off into other fields, it is important to send the message that studying and achieving in science at the precollege level is important to our country. We say this often to each other, but we do not say it enough to the students themselves. Being at the Awards Banquet is one way of doing so.

You will be receiving a formal invitation soon, but knowing your busy schedule, we wanted to alert you to the date. We have many gatherings in which we cheer our sports achievers; we need to give equal glory to our science achievers. We look forward to seeing you.

Sincerely,

Ted.

E. G. Sherburne, Jr.
President

ES:yvt

Enc: Finding Tomorrow's Scientists



FINDING TOMORROW'S SCIENTISTS

*50th Westinghouse
Science Talent Search*

FINDING TOMORROW'S SCIENTISTS

For thousands of students who dream of careers in science, the Westinghouse Science Talent Search has helped make those dreams come true.

Since 1942, this nationwide competition has identified and encouraged high school seniors to pursue careers in science, mathematics or related fields.

The 50th annual Westinghouse Science Talent Search, now underway, caps half a century of remarkable achievements by the 15,000 semifinalists and 2,000 finalists who have participated in this, America's most highly regarded precollege science competition.

Seniors who participate have the opportunity, while still teenagers, to join the ranks of the nation's most eminent scientists.

The Search brings together the brightest, most creative science students in the land. In fact, many of our top scientists and mathematicians share the common bond of having participated in the STS when they were students.

The Search has identified young scientific talent with remarkable precision. STS alumni have won more than 100 of the world's most coveted science and math awards and honors.

Five former finalists have gone on to win Nobel Prizes. Two have earned Fields Medals, the Nobel equivalent in mathematics. Two have been awarded the National Medal of Science. Eight Search alumni have won MacArthur Foundation Fellowships, the so-called "genius awards." Fifty-one have been named Sloan Research Fellows and 28 have been elected to the National Academy of Sciences. Three have been elected to the National Academy of Engineering.

50th Annual Science Talent Search

More than half of the former Search winners are either teaching or engaged in research at colleges and universities.

The 1991 competition, which started in September, 1990, is the 50th annual Search. Westinghouse Electric Corporation has sponsored STS since its inception. The Search is administered for Westinghouse by Science Service, a Washington-based nonprofit organization engaged in furthering public understanding of science.

Since 1942, nearly 105,000 students have completed independent research projects and submitted entries. Currently, some 1,500 seniors meet the entry requirements each year. The deadline for entries received at Science Service is midnight, December 10.

The entry consists of a written description of the student's research, plus a completed entry form which is designed to elicit evidence of student creativity and interest in science.

Search candidates are judged by a board of eight distinguished scientists from a variety of disciplines. Chairman is Dr. J. Richard Gott, professor of astrophysical sciences at Princeton University and a former STS finalist. Members include Dr. Glenn T. Seaborg, a Nobel Prize winner and University Professor of Chemistry at the University of California at Berkeley.

The judges are aided by other scientists to complete a careful evaluation of each entry. Then, the elimination begins. The top 300 entrants are selected as semifinalists. These students are recommended to colleges and universities for admission and financial assistance, based on their STS achievement.

Winners Announced in January

Next, 40 finalists are selected from the 300 semifinalists. Both groups are announced in January.

Westinghouse provides the 40 finalists a five-day trip to Washington where they undergo additional judging. On the basis of interviews and their research, 10 top scholarship winners are selected.

The Westinghouse Foundation has increased Search scholarships to the present total of \$205,000, which is awarded each year to the 40 finalists. The top prize is a \$40,000 scholarship.

Second- and third-place winners receive \$30,000 and \$20,000 scholarships, respectively. Three others win \$15,000 each. Four \$10,000 scholarships are awarded. The other 30 finalists receive \$1,000 scholarships.

When the students are in Washington, they meet leading scientists and their Congressional representatives. Their prize-winning exhibits are on public display. The young scientists describe their research to thousands of visitors -- many of them important figures in the government and scientific community.

During their stay in Washington, students are interviewed by news media from their hometowns, national and international newspapers, press associations, television networks and science and education journals.

The finalists visit Washington's historic and scientific sights. Past winners have met with the President, the Vice President and distinguished Science Advisers. On the final evening -- March 4, 1991 -- they are honored at a black-tie awards banquet for several hundred guests.

Meeting Other Young Scientists

Yet, what the students say they value most is the opportunity to meet and interact with their scientific peers, often for the first time. Friendships and professional associations made during those five days continue through college and beyond.

Statistics on the 1,960 past finalists show that 95 percent of former Search winners have had some branch of science as their major field of study. More than 70 percent have gone on to earn PhDs or MDs. Career choices are about evenly divided among the physical sciences and the biological sciences and medicine.

To date, Westinghouse has awarded almost \$2.6 million in scholarships. Also, thousands of students have received scholarships and financial aid from other sources as a direct result of STS achievement.

High school science educators find "the Westinghouse," as students call the competition, an excellent tool for stimulating latent abilities in their brightest students.

Since 1942, New York state has produced the highest number of finalists, accounting for 636. Illinois is in second place with 139. California ranks third with 136, followed by Pennsylvania, 95; Ohio, 73; New Jersey, 73; Florida, 69; Massachusetts, 65; Virginia, 54; Maryland, 45; Wisconsin, 44; Texas, 44; Indiana, 41.

Other states which have produced at least ten finalists are Michigan and Connecticut, 29; Oregon, 27; Georgia, 22; Arizona, Oklahoma and Minnesota, 21 each; Missouri, 19; Tennessee, 18; Nebraska and Colorado, 17 each; the District of Columbia and West Virginia, 16 each; Washington, 14; New Hampshire and Montana, 13 each; Alabama and Iowa, 12 each; Kansas, 11; Hawaii, 10.

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October 1990

Major Honors Achieved by
Westinghouse Science Talent Search Finalists

<u>Honor</u>	<u>Date Awarded</u>	<u>Name</u>	<u>STS - Year</u>
Nobel Prize (Physics)	1972	Leon Cooper	STS - 1947
Nobel Prize (Physics)	1975	Ben R. Mottelson	STS - 1944
Nobel Prize (Physics)	1979	Sheldon L. Glashow	STS - 1950
Nobel Prize (Chemistry)	1980	Walter Gilbert	STS - 1949
Nobel Prize (Chemistry)	1981	Roald Hoffmann	STS - 1955
Fields Medal (Mathematics)	1966	Paul J. Cohen	STS - 1950
Fields Medal (Mathematics)	1974	David B. Mumford	STS - 1953
National Medal of Science	1966	Paul J. Cohen	STS - 1950
National Medal of Science	1974	Roald Hoffmann	STS - 1955
MacArthur Fellowship	1982	Frank Wilczek	STS - 1967
MacArthur Fellowship	1983	Richard Stephen Berry	STS - 1948
MacArthur Fellowship	1984	Arthur T. Winfree	STS - 1960
MacArthur Fellowship	1985	Jane Shelby Richardson	STS - 1958
MacArthur Fellowship	1987	Robert Axelrod	STS - 1961
MacArthur Fellowship	1987	Robert Coleman	STS - 1972
MacArthur Fellowship	1987	Eric Lander	STS - 1974
MacArthur Fellowship	1987	David B. Mumford	STS - 1953
Albert Lasker Basic Medical Research Award	1979	Walter Gilbert	STS - 1949
Albert Lasker Basic Medical Research Award	1987	Leroy E. Hood	STS - 1956

28 STS Finalists are members of the National Academy of Sciences
 3 STS Finalists are members of the National Academy of Engineering
 51 STS Finalists are Sloan Research Fellows

28 SCIENCE TALENT SEARCH FINALISTS ELECTED TO THE NATIONAL ACADEMY OF SCIENCES

<u>Name</u>	<u>Affiliation</u>	<u>STS Year</u>
Adler, Stephen L.	Institute for Advanced Study, Princeton, NJ	1957
Axelrod, Robert	University of Michigan, Ann Arbor, MI	1961
Berry, R. Stephen	University of Chicago, Chicago, IL	1948
Breslow, Ronald	Columbia University, New York, NY	1948
Chilton, Mary Dell	CIBA-GEIGY Corp., Greensboro, NC	1956
Clark, George W.	MIT, Cambridge, MA	1945
Cohen, Paul J.	Stanford University, Stanford, CA	1950
Cooper, Leon N.	Brown University, Providence, RI	1947
Crothers, Donald M.	Yale University, New Haven, CT	1954
Davidson, Eric H.	California Institute of Technology, Pasadena, CA	1954
Felsenfeld, Gary	National Institutes of Health, Bethesda, MD	1947
Gilbert, Walter	Biogen, Inc., Cambridge, MA	1949
Glashow, Sheldon Lee	Harvard University, Cambridge, MA	1950
Halperin, Bertrand I.	Harvard University, Cambridge, MA	1958
Hoffmann, Roald	Cornell University, Ithaca, NY	1955
Hood, Leroy	California Institute of Technology, Pasadena, CA	1956
Karplus, Martin	Harvard University, Cambridge, MA	1947
Martin, Paul C.	Harvard University, Cambridge MA	1948
Mather, John N.	Princeton University, Princeton, NJ	1960
Mumford, David B.	Harvard University, Cambridge, MA	1953
Richards, Paul L.	University of California, Berkeley, CA	1952
Rosenblatt, Murray	University of California, San Diego, LaJolla, CA	1943
Sessler, Andrew M.	Lawrence Berkeley Laboratory, Berkeley, CA	1945

28 SCIENCE TALENT SEARCH FINALISTS ELECTED TO THE NATIONAL ACADEMY OF SCIENCES (Cont'd.)

<u>Name</u>	<u>Affiliation</u>	<u>STS Year</u>
Solovay, Robert M.	University of California, Berkeley, CA	1956
Sternberg, Saul	AT&T Bell Laboratories, Murray Hill, NJ	1950
Streitwieser, Jr., Andrew	University of California, Berkeley, CA	1945
Tinkham, Michael	Harvard University, Cambridge, MA	1945
Wilczek, Frank A.	Institute for Advanced Study, Princeton, NJ	1967

3 SCIENCE TALENT SEARCH FINALISTS ELECTED TO THE NATIONAL ACADEMY OF ENGINEERING

<u>Name</u>	<u>Affiliation</u>	<u>STS Year</u>
Armstrong, John A.	IBM Corporation, NY	1952
Goldman, Alan J.	Johns Hopkins University, Baltimore, MD	1949
Rechtin, Eberhardt	Aerospace Corporation, Los Angeles, CA	1943

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9120154

FROM: JONES, JESSIE M.

TO: DR. BROMLEY

DATE OF
CORRESPONDENCE: 01/19/91

SUBJECT: PRESIDENTIAL AWARDS

ASSIGNED TO: Damar Hawkins

ACTION REQUIRED:

SENDER'S DUE DATE:

OSTP DUE DATE:

DATE COMPLETED:

COPIES TO: D. Allan Bromley

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED: 01/22/91

FILE: PRESIDENTIAL AWARDS



BEDDINGFIELD HIGH SCHOOL

ROUTE 3 BOX 100
WILSON, NORTH CAROLINA 27893
919-291-8550



December 19, 1990

Dr. D. Allan Bromley
Office of Science and Technology Policy
Old Executive Office Building
17th & Pennsylvania Avenue, N.W.
Washington, DC 20506

Dear Dr. Bromley:

It is difficult for me to find words to express to you how deeply appreciative I am for all the fine work you and your staff have done in planning the activities for the Presidential Awards for Excellence in Science and Mathematics Teaching. The 1990 program undoubtedly must have been the finest for my community, students, and I are still on "cloud nine". My students' interests in their school work and self esteem have increased immensely since the announcement of the award and my return from Washington. The whole thing has thrust me into an unbelievable celebrity status. The response from everyone has just been incredible.

The beautiful citation presented to me as a 1990 Presidential Awardee is deeply appreciated, and it has been a challenge to other organizations to go beyond the efforts of the past in helping to shape the future of the United States in the 21st century.

Again, thank you for all you do for the teachers and youth in this country.

Sincerely,

Jessie
Jessie M. Jones

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9120132

FROM: VALENTE, VIRGIL

TO: DR. BROMLEY

DATE OF
CORRESPONDENCE: 01/15/91

SUBJECT: PRESIDENTIAL AWARDS

ASSIGNED TO: D. Allan Bromley

ACTION REQUIRED:

SENDER'S DUE DATE:

OSTP DUE DATE:

DATE COMPLETED:

COPIES TO: Ken Yale
Jackeline Clawson

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED: 01/19/91

FILE: ED. - ~~PRESIDENTIAL AWARDS~~ P-143

Jan. 15, 1991

Dr. D. Allan Bromley
Assistant to the President for Science
and Technology
Office of Science and Technology Policy
Old Executive Office Building
Washington, DC 20506

Dear Dr. Bromley,

With a few months to reflect on the wonderful week we had in Washington for the Presidential Awards, I feel it is time to thank you and all the others who helped to make the week an unforgettable experience. Teachers are not often shown much appreciation, but the overwhelming reception we received in Washington should be enough to last a lifetime.

The attitude of people in positions of control of school policy in many cases discourage qualified people from entering or staying in the profession. From my vantage point there are two reasons why dedicated people continue to teach. They personally feel they can make a difference in the lives of young people and/or the appreciation shown by their students which carries them through the days of drudgery. As a case in point, my school board not only has not recognized my award but refused to pay my wife for the week we spent in Washington. She is a school secretary. I'm sure glad I have control over the money which comes with the award or they would use it for basketball or something.

In any case, I want you to know that I appreciate all that was done for me. By having these Awards you have added legitimacy to the premise that teaching is a profession. Thanks so much.

Sincerely,

Virgil Valente

Virgil Valente
Secondary Science, Maine

OFFICE OF THE
DIRECTOR

91 JAN 22 P 2:44

RECEIVED

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9120052

FROM: RITA K. FOX

TO: DR. BROMLEY

DATE OF
CORRESPONDENCE: 01/03/91

SUBJECT: PRESIDENTIAL AWARD IN MATHEMATICS

ASSIGNED TO:

ACTION REQUIRED: NONE

SENDER'S DUE DATE:

OSTP DUE DATE:

DATE COMPLETED:

COPIES TO: D. Allan Bromley
Jackeline Clawson

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

DATE RECEIVED: 01/08/91

FILE: PRESIDENTIAL AWARD IN MATH



John R. McKernan, Jr.
Governor

Eve M. Bither
Commissioner

DEPARTMENT OF EDUCATION

Telephone (207) 289-5800

9120052

January 3, 1991

Dr. D. Allan Bromley
Office of Science and Technology Policy
Old Executive Office Building
17th & Pennsylvania Avenue, NW
Washington, D.C. 20506

Dear Dr. Bromley,

I am writing to thank you for your part in making possible my week in Washington as a Presidential Awardee in Mathematics. My guest and I had a wonderful time at each of the planned activities and were able to squeeze in a visit to the Senate Gallery, the Zoo and the Smithsonian. I am still digesting all that we saw and did and heard and I am sure that my niece will be doing the same for some time to come. I especially enjoyed the two days of lectures and the challenges which were presented to us.

Thank you for all you did to make my trip to Washington so memorable.

Sincerely,

Rita K Fox

Rita K. Fox

RECEIVED
91 JAN 8 PM 2:57
OFFICE OF THE
DIRECTOR

THE WHITE HOUSE
WASHINGTON

January 11, 1991

Dear Mrs. Corpacius:

Thank you for your January 3 letter and your kind comments on my recent visit to Hawaii.

With regard to your questions about the National Medal of Science (MOS) Program and your husband's past nominations, I can report that I have discussed your concerns with appropriate staff of the National Science Foundation, the agency that manages the MOS Program, and they have located Dr. Corpacius' file.

I have taken the liberty of forwarding the material that you sent me to senior staff at NSF and they have assured me that they will be in touch with you in the near future.

Again, I appreciate your taking the time to write.

Sincerely,

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

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

Mrs. Alexander Corpacius
1025 Wilder Avenue, 3-B
Honolulu, Hawaii 96822