

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

FOIA MARKER

**This is not a textual record. This is used as an
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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: Correspondence Files

OA/ID Number: 62003
Folder ID Number: 62003-005

Folder Title:
D. Allan Bromley Correspondence - Presidential - A [2 of 2] [1989]

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

THE WHITE HOUSE
WASHINGTON

November 21, 1989

Dear Dr. Aamodt:

Thank you for your recent letter on behalf of Professor Ronald C. Davidson of MIT. Your unqualified endorsement of Dr. Davidson is noted.

When I am asked by Admiral Watkins to review candidates for the DOE position of Director of Energy, I will have your recommendation fresh in my mind.

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

Dr. Richard E. Aamodt
President
Lodestar Research Corporation
2400 Central Avenue, P-5
Boulder, Colorado 80301

"CORRESPONDENCE TRACKING"

TYPE: Action Item

DOCUMENT NUMBER: 8920355

FROM: RICHARD E. AAMODT
LODESTAR RESEARCH CORPORATION

TO: BROMLEY

DATE OF
CORRESPONDENCE: 11/08/89

SUBJECT: RECOMMENDING RONALD C. DAVIDSON FOR THE DEPARTMENT
OF ENERGY'S DIRECTOR OF ENERGY RESEARCH.

ASSIGNED TO: D. Allan Bromley

ACTION REQUIRED: APPROPRIATE RESPONSE

See draft

SENDER'S DUE DATE: OSTP DUE DATE: 12/05/89

DATE COMPLETED: -----

COPIES TO:

REMARKS:

DATE RECEIVED: 11/13/89

FILE: NEOB

Withdrawal/Redaction Sheet

(George Bush Library)

Document No. and Type	Subject/Title of Document	Date	Restriction	Class.
01a. Letter	To: Allan Bromley From: Richard Aamodt Re: Letter of Recommendation for Ronald Davidson [personal information redacted] (1 pp.)	11/8/89	(b)(6)	

Collection:

Record Group: Bush Presidential Records
Office: Science and Technology Policy, Office of (OSTP)
Series: Bromley, D. Allan, Files
Subseries: Correspondence Files
WHORM Cat.:
File Location: D. Allan Bromley Correspondence - Presidential - A [2 of 2] [1989]

Date Closed:	2/8/2010	OA/ID Number:	62003-005
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. Resume	Resume of Ronald C. Davidson [personal information redacted] (46 pp.)		(b)(6)	

Collection:

Record Group: Bush Presidential Records

Office: Science and Technology Policy, Office of (OSTP)

Series: Bromley, D. Allan, Files

Subseries: Correspondence Files

WHORM Cat.:

File Location: D. Allan Bromley Correspondence - Presidential - A [2 of 2] [1989]

Date Closed:	2/8/2010	OA/ID Number:	62003-005
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)]

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

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.

(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

THE WHITE HOUSE

WASHINGTON

November 28, 1989

Dear Mr. Ostar:

Thank you for your generous remarks about the talk I gave at the National Mathematics and Science Conference. I have enclosed a copy of the written text and look forward to working with your committee on Science and Technology on this critically important issue.

Sincerely,

A handwritten signature in dark ink, appearing to read "D. Allan Bromley". The signature is stylized with a large, prominent "D" and a long, sweeping underline.

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

Enclosure

Dr. Allan W. Ostar
American Association of
State Colleges and Universities
One Dupont Circle, Suite 700
Washington, D.C. 20036-1192

SCIENCE, MATHEMATICS, AND EDUCATIONAL REFORM

D. ALLAN BROMLEY

ASSISTANT TO THE PRESIDENT FOR SCIENCE AND TECHNOLOGY

EXECUTIVE OFFICE OF THE PRESIDENT

Keynote Address at the Dwight D. Eisenhower
Mathematics and Science Education Conference

Washington, D.C.

November 2, 1989

THE WHITE HOUSE
WASHINGTON

November 30, 1989

Dear Dr. Misra:

Thank you for your kind letter of invitation to be the keynote speaker at your eighth annual banquet on April 3, 1990.

That particular date in question is one where I am already committed. That being the case, I will unfortunately be unable to join you, much as I would have liked to do so.

Let me, then, take this occasion to wish you every success with your banquet. I hope that you will keep me in mind in the future.

With best wishes,

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

Dr. Renuka Misra
Association of Scientists
of Indian Origin in America, Incorporated
1405 Key Parkway East
Unit 201-A
Frederick, Maryland 21701

"INVITATION FOR DR. BROMLEY"

TYPE: Invitational Speech

DOCUMENT NUMBER: 8920529

SPEECH: YES NO

FROM: American Nuclear Society
Connecticut Section

DATE OF EVENT:

LOCATION OF EVENT:

TIME OF EVENT:

SUBJECT: "Current Energy Issues in the U.S." or
"Environmental and Social Impacts on U.S. Energy
Policies" or "Science Education in the U.S."

RSVP:

CONTACT PERSON: C. F. Sears

CONTACT NUMBER:

INVITATION ACCEPTED?

YES

NO

COPIES TO: Marian Nida

REMARKS:

DATE OF LETTER: 11/20/89

DATE RECEIVED: 11/27/89

FILE: INVITATIONS PENDING

1408358



AMERICAN NUCLEAR SOCIETY CONNECTICUT SECTION

Box 592, Bloomfield, CT 06002-0592

November 20, 1989
CFS-89-200

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

Dear Dr. Bromley:

On behalf of the Connecticut Section of the American Nuclear Society, we would like to invite you to address our organization at a Dinner-Meeting sometime next Spring. The date is flexible depending on your availability in the Hartford area, as we recognize that your schedule is likely rapidly becoming very full. Possible topics could be "Current Energy Issues in the United States", "Environmental and Social Impacts on U.S. Energy Policies", "Science Education in the United States", or some variant thereof. Please feel free to choose another topic if you feel something else would be more appropriate.

We would be highly honored if you could make yourself available to address one of our local section meetings. Please advise us as to your willingness to participate in such a meeting and your planned topic for discussion. Upon receipt of your answer, we will proceed to finalize a date with you and make general arrangements.

We look forward to hearing from you soon.

Very truly yours,

NORTHEAST UTILITIES SERVICE COMPANY

C. F. Sears
Vice President

CFS/lms

cc: M. T. Pitek, CT ANS Executive Committee

THE WHITE HOUSE

WASHINGTON

December 11, 1989

Dear Mr. Sears:

Thank you for your kind letter of November 20 inviting me to address the American Nuclear Society next spring.

While I am very flattered to be asked and under different circumstances would agree, unfortunately, in my new position I am unable to find the time for such endeavors.

The activities that surround the President's initiative on global change will consume my time and energy for at least the next 18 months. I am sorry to have to decline, but offer my best wishes for your success.

Sincerely,

A handwritten signature in dark ink, appearing to read "D. Allan Bromley". The signature is fluid and cursive, with a large initial "D" and a long, sweeping underline.

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

Mr. C. F. Sears
Vice President
American Nuclear Society
Connecticut Section
Box 592
Bloomfield, Connecticut 06002-0592

THE WHITE HOUSE
WASHINGTON

November 20, 1989

Dear Bill:

Thank you for your letter. I will encourage the President to consider your invitation for him to address the National Science Teachers Association at their 1991 annual meeting. It would be a wonderful opportunity for President Bush to exercise leadership in the revitalization of science education. Although it is not possible for me to commit this far in advance, I want you to know that I appreciate your invitation to attend the NSTA Conference and to introduce the President should he agree to attend.

I commend you for your work in the NSTA science curriculum project. This project is an important "next step" in our efforts to improve science education for the nation's youth.

With all best wishes,

Sincerely,



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

Mr. Bill G. Aldridge
Executive Director
National Science Teachers Association
1742 Connecticut Avenue, NW
Washington, D.C. 20009-1171

OSTP
ROUTING SLIP FOR TRACKING

CORRESPONDENCE ☒ STAFF MEMO _____
Information ☒ Action _____ Files Only _____
Action Assigned to: Mary Hanley-Krause
Brownsey
Action Required: As appropriate
Acknowledge
OSTP Due Date: _____

Copies To:
☒ International Science/Social Sciences
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☒ NEOB Files

Special Instructions:

File: NEOB

"CORRESPONDENCE TRACKING"

DOCUMENT NUMBER: 8920149

TYPE: Action Item

DATE OF CORRESPONDENCE: 10/18/89

FROM: BILL G. ALDRIDGE
NATIONAL SCIENCE TEACHERS ASSOCIATION

TO: BROMLEY

SUBJECT: INVITATION TO INTRODUCE BUSH, SHOULD HE ATTEND, AND
TO SAY A FEW WORDS ABOUT OSTP AND YOURSELF. WOULD
LIKE YOU TO URGE PRESIDENT TO ATTEND.

ASSIGNED TO: D. Allan Bromley
MARY KRUTER

ACTION REQUIRED: AS APPROPRIATE
ACKNOWLEDGE

SENDER'S DUE DATE:

OSTP DUE DATE: 11/17/89

DATE COMPLETED: -----

COPIES TO: Thomas Ratchford
Sara Bowden
DAMAR HAWKINS

FILE: NEOB

DATE RECEIVED: 10/19/89

REMARKS:



NATIONAL SCIENCE TEACHERS ASSOCIATION

1742 Connecticut Avenue, NW
Washington, DC 20009-1171

(202) 328-5800
FAX (202) 328-0974

October 18, 1989

Bill G. Aldridge, Executive Director

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Michigan State University, East Lansing

An Affiliate of the American
Association for the
Advancement of Science

Dr. Allan Bromley
Assistant to the President for
Science and Technology and Director
Office of Science and Technology Policy
The Old Executive Office Building
17th Street and Pennsylvania Ave., NW
Washington, DC 20506

Dear Allan:

I enjoyed the awards dinner for the Medal of Science and Medal of Technology last evening.

I wanted to get back to you immediately regarding my invitation to have President Bush address the science teachers at the National Science Teachers Association Annual Convention in Houston, March 27 - 30, 1991. I fully recognize that the President will not make many major commitments, certainly not one a year and a half away. Nevertheless, I also know that if he is to consider this invitation, those who plan his schedule will need to have as much advance notice as possible. Let me be specific about our invitation.

First, we will provide an opportunity for President Bush to address 15,000 science teachers in Houston on any one of four days, Wednesday, March 27 through Saturday, March 30. The convention schedule is limited to the evening on the 27th and to the morning on the 30th.

Second, we would require no advance confirmation of which day the President would speak. Instead, we would allow time on any day that he chooses even if he waits until the convention is in progress to make his choice. I would remind you that March 27th is Good Friday, March 30th is the start of Passover, and March 31st is Easter Sunday. We expect to end our convention on Saturday, March 30th at noon to allow people to return home for Easter.

Let me give you the reasons why the President should accept this invitation:

1. The President claims to be the "Education President". Science education is, for the economy and for defense, the most serious educational area with which we must deal.
2. Our organization is funded by the President's Department of Education and by his National Science Foundation to create a reform of secondary school science education, and one of our major centers is in Houston. This would give the President an opportunity to acknowledge at least one of his own initiatives.
3. Houston is supposed to be the President's hometown. Perhaps he would like to get "home" for Easter.

Dr. Allan Bromley
October 18, 1989
Page 2

I would be most appreciative, Allan, if you could urge the President to consider this invitation. I know that simply sending an invitation through his appointment staff, as we have already done, would get us nowhere. If he gives favorable consideration to the invitation, I would hope that you could attend and introduce the President after making a few comments yourself about your office and your concerns for science.

Again, I want to thank you for inviting me to the dinner last night. It is good to see you in the White House.

Sincerely,

A handwritten signature in cursive script, appearing to read "Bill", written in dark ink.

Bill G. Aldridge
Executive Director

BGA/ lm

THE WHITE HOUSE

WASHINGTON

December 21, 1989

Dear John:

Thank you for your letter of November 21, 1989. I am sorry that you will not be able to serve on the U.S.-Japan Joint High Level Advisory Panel, but I can certainly understand your concern about being over committed. I received your recommendation to invite Jim McGroddy to serve on the Panel with enthusiasm and spoke with him that very day. I am pleased that Jim not only accepted, but attended our first meeting on December 5. Thank you very much for your assistance on this matter.

Jim's extensive experience at IBM and with the Japanese will be extremely useful as the Panel continues to discuss the wide range of science and technology issues facing the United States and Japan. Since many of the most pressing concerns are related to advanced technologies and competitiveness, Jim's input will be all the more important and useful. I look forward to working with him and the entire Panel in the years ahead.

Sincerely,



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

Mr. John A. Armstrong
Vice President
for Science and Technology
International Business Machines
Cooperation
Corporate Headquarters
Armonk, New York 10504

cc: Jim McGroddy

International Business Machines Corporation

Office of the Vice President for Science and Technology
Corporate Headquarters

Armonk, New York 10504

November 21, 1989

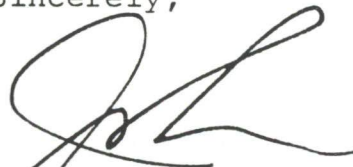
Dr. D. Allan Bromley
Assistant to the President for
Science and Technology
Old Executive Office Building
17th Street & Pennsylvania Avenue, NW
Washington, DC 20506

Dear Allan:

Thank you for your letter of October 18 inviting me to serve on the U.S.-Japan Joint High Level Advisory Panel. This is clearly an interesting and potentially influential committee. I find myself over-committed both in Washington and elsewhere, so I am going to decline your invitation with regret. I realize you have a substantial list of potential committee members; however, I would like to offer the invitation for you to invite Dr. James C. McGroddy, IBM Director of Research, to serve on this committee.

Jim has extensive experience in IBM technology development, and has been personally involved in development joint ventures between IBM Research and IBM's Japanese laboratories, as well as personally involved in negotiations between IBM and various Japanese partners in joint ventures. He would bring a lot to the committee.

Sincerely,



John A. Armstrong
Vice President for Science and Technology

JAA:naw

"CORRESPONDENCE TRACKING"

TYPE: Action Item

DOCUMENT NUMBER: 8920515

FROM: IBM
John A. Armstrong

TO: Bromley

DATE OF
CORRESPONDENCE: 11/21/89

SUBJECT: Thanks but no to serving on the US-Japan Joint High
Level Advisory Panel. Referring James C. McGroddy as
replacement.

ASSIGNED TO: Sara Bowden

*Have
all dated
reply*

ACTION REQUIRED: Response for
DAB signature

SENDER'S DUE DATE:

OSTP DUE DATE: 12/20/89

DATE COMPLETED: -----

COPIES TO: Thomas Ratchford
D. Allan Bromley

REMARKS:

DATE RECEIVED: 11/27/89

FILE: NEOB

THE WHITE HOUSE

WASHINGTON

December 14, 1989

Dear Dr. Altman:

Thank you for your very interesting letter. You are so right about the need to capture the interest of our youth in science. Science exhibits of the type you describe are very promising ways to reach young people.

You may already know that the National Science Foundation has an informal science education program with the objective of encouraging informal learning through media programs; museum exhibits, especially those with activities that provide hands-on experiences; and educational programs that extend science learning into a variety of out-of-school settings. The goal is to provide rich and stimulating environments where individuals of all ages, interests, and backgrounds can, through recreational and avocational activities, increase their appreciation and understanding of principles and issues involving mathematics, science, and technology. You may wish to call the Division of Materials Development, Research, and Informal Science Education of the National Science Foundation at 202-357-7452 for more information about this funding program and for a listing of all projects which have been funded.

The Smithsonian Institution has begun, in conjunction with the National Academy of Sciences, to develop science and technology centers and exhibits. You may wish to visit the technology center at the Arts and Industries Building of the Smithsonian. Also housed in that building is the National Science Resources Center, a center devoted to the improvement of mathematics and science education.

Best wishes in your activities to improve science education. The nation needs all of its citizens working toward the goal of making our science education programs the best in the world.

Sincerely,

A handwritten signature in dark ink, appearing to read "D. Allan Bromley". The signature is fluid and cursive, with a large, stylized initial "D".

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

Dr. F. J. Altman
1020 Quincy Street, Number 213
Arlington, Virginia 22201

"CORRESPONDENCE TRACKING"

TYPE: Action Item

DOCUMENT NUMBER: 8920458

FROM: F. J. ALTMAN

TO: BROMLEY

DATE OF
CORRESPONDENCE: 11/17/89

SUBJECT: SENDING IDEAS ABOUT INITIALIZING MORE PROGRAMS LIKE
THE EXPLORATORIUM (SAN FRANCISCO) IN ACTION FOR
AUDIENCE PARTICIPATION IN SCIENCE.

ASSIGNED TO: Mary Kruter

ACTION REQUIRED: Draft Response
for DAB Sig.

SENDER'S DUE DATE:

OSTP DUE DATE: 12/12/89

DATE COMPLETED: 12/13/89

COPIES TO: D. Allan Bromley

REMARKS: Received back at tracking 12/2/89 for reassignment to Mary
Kruter from DAB for response and due date change from 12/8/89
12/12/89...jj

DATE RECEIVED: 11/21/89

FILE: NEOB

"CORRESPONDENCE TRACKING"

TYPE: Action Item

DOCUMENT NUMBER: 8920458

FROM: F. J. ALTMAN

TO: BROMLEY

DATE OF
CORRESPONDENCE: 11/17/89

SUBJECT: SENDING IDEAS ABOUT INITIALIZING MORE PROGRAMS LIKE
THE EXPLORATORIUM (SAN FRANCISCO) IN ACTION FOR
AUDIENCE PARTICIPATION IN SCIENCE.

ASSIGNED TO: D. Allan Bromley

ACTION REQUIRED: APPROPRIATE RESPONSE

SENDER'S DUE DATE: OSTP DUE DATE: 12/08/89

DATE COMPLETED: -----

COPIES TO:

REMARKS:

DATE RECEIVED: 11/21/89

FILE: NEOB

*Mary Bunker
to draft response
please
Reassign to MK
pls, with new due
date of 12/12
Thanks
du
11/27*

1020 Quincy St. #213
Arlington, VA 22201
November 17, 1989

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

Dear Dr. Bromley:

I'm just back from your effective briefing to the local MIT Club, responding to your request for input. I have finally retired, for the third time, with a life-long interest in science education. I've done a lot of thinking lately, sort of with the idea of repaying a debt to society, and have a few ideas I'd like you to try on for size. Briefly, they attempt to motivate our youth by stressing education at least as much as history in our museums, by reviving an old tradition of the skilled lecturer demonstrating exciting apparatus in action, and finally, an objective method for evaluating textbooks.

About a year ago I visited, almost on the same day, three museums in Paris. The first, in the Cité des Sciences, is sort of like our Air and Space, a beautiful monster, but what stuck in my mind was the optical exhibit, large and do-it-yourself, so that it was both educational and FUN. The next day I went back and found some one who knew that it was a copy of an exhibit in San Francisco, with another copy in NYC!! Next came the Arts et Métiers, the repository of the laboratory of Lavoisier, and the instruments of Ampère and many more of our pantheon. The lights were not even on in most areas!! Finally the Palais de la Découverte. Here, I found manned demonstrations, - at that moment, one at a high voltage laboratory where your hair literally stood on end and your flesh seemed to crawl. And computer rooms, and no end of wonders for audience participation. I got a terrific message and I hope you do too. Not long after, I went through the MIT Museum, saw the exhibit of copies of Hertz's apparatus, just sitting there. I couldn't help but think how little it would have taken to bring it to life and make it a terrific motivator for our dismal drop-out youth. And last, I wish you'd send some one who gets the point down to check out the Smithsonian, which is gorgeous, like a coffee-table book, but with all its money, - and enormous attendance - not doing much to further our cause of exciting, explaining, and motivating in the sciences and technology. Doe

I have just (next day) found some documentation for the above in my files. In 1965 [Ref.1], the Chairman of the Department of Science and Technology of the Smithsonian Institution wrote:

"Science is nonetheless an essentially theoretical enterprise, and the exhibition of theories remains a challenge to the museum. Beginning with the Paris World's Fair of 1938, a succession of attempts has been made to show experimental science and its theoretical

implications through demonstrations. Old apparatus is not adequate to this nor is it necessary, for the institution which seeks this avenue for the exhibition of science (since it does not "collect" anything) ceases to be a museum. It becomes rather a laboratory course in science extended in space rather than time; and, however useful this may be, it is not a solution to the problem of the science museum."

My dictionary says *mouseion* means "place of study" and at museum my *Encyclopedia Britannica* has Educational Function as the first heading under PURPOSES AND ACTIVITIES, with equal sections on History, Science, and Industrial Museums.

On the other hand, according to the founder [2] of the acknowledged greatest technology museum:

"The German museum in Munich shows the development of the various branches of natural science and technology by means of original apparatus and machines, as well as by means of models and arrangements for demonstration, in a manner easily understood by all classes of people. Its purpose is to instruct students, workers, etc., as to the effects of the multifarious applications of science and technology to the problem of human existence, to stimulate human progress, and to keep alive in the whole people a respect for great investigators and inventors and for their achievement in natural science and technology."

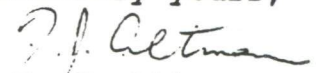
You can see that I think we should have a Science Museum on the Mall, that it might be of more value than some we have now. But what kind of museum? When young kids are turned loose on unmanned exhibits, all they want is any kind of motion, crash, or flash. And not many older ones will read labels, repeat drills and learn much. It takes guidance, manning, to be effective. We need a revival of a fine old tradition of the last century in England. In 1825 Faraday started Friday evening "Discourses" at the Royal Institution which continue to this day. Tyndall's "Heat Considered as a Mode of Motion" was based on a sort of road show with lots of bang for the buck! My personal favorite subject would be James Clerk Maxwell. You know he was the all-important link between Faraday's "Experimental Researches ..." and Hertz's triumphant demonstration of Maxwell's equations which unleashed the current livid beast. But few know how physically based his thinking was. He visualized the mysterious essential ether as rotating spheres activated by tiny intervening idler spheres (electric current), and whose rotation increased their equatorial diameters and decreased their polar diameters, accounting for attraction and repulsion. As I recall, this line led to his little known but amazing conclusion that all transparent materials must be insulators. The attached Figure 1 is another sample, with action, a simple principle, and important consequences. My favorite example of the simplicity and power of his mechanical reasoning is his method for ice-skating on one skate. Really?? Yes, really!! All you have to do is skate in an S - curve, rising and falling in the correct phase to transfer energy from one plane to the other. I found Campbell and Garnett's "Life of J.C. Maxwell" (1882) on the shelf in the London Science Museum

Library, but at MIT the copy of my school-days is now in a warehouse. Here is the basis for a lecture (film)(with models) to attract an audience from 8 to 80. Of course it should be preceded by Faraday followed by Hertz (in action), and Edison to be sure.

The next area I want to tackle is related to what I felt was your most impassioned statement - "We should have national standards for education". I'm familiar with the English A-levels, the German Abitur, and the French Bac from my two years in France, and I don't expect to see an American equivalent in my lifetime. Nevertheless, I agree that this may be one of the most important goals of all. Again, allow me to sneak up on the subject. About a year ago I read Hirsch's "Cultural Literacy". My reaction to this book and the related "Dictionary ..." was to try to find a way to ensure cultural (or scientific) literacy. What I came up with will probably apply only in that ideal nation where we have widespread educational standards, but here it is. Given today's computers with text scanners and optical character recognition (OCR), it would be possible to select words or some phrases to define (nominally) cultural literacy in a subject at a given level, say college entrance, and to require that these at least appear in the appropriate textbooks for the subject in high school. This is obviously not a sufficient condition for an education, but it should be a necessary minimum. I went so far as to build up an AT clone with scanner and OCR software. Then I said to myself that I couldn't define cultural literacy, but, for example, a well-accepted textbook could, if I could sift the essential items from the others. This led to the concept of Figure 2. So I got into the world of word-frequency lists and actually copied a modest one. Finally I read a text and found which words were not in my frequency list, and then dropped the project awaiting further motivation. One last thought, - in the ideal nation, all copyrighted books would be submitted to the LOC in computer disk format, simplifying all this tremendously.

If any of these ideas are of interest, I should be very glad to discuss their rationale or development and implementation at almost any time.

Sincerely yours,


F./J. Altman

References:

1. R.P. Multhauf, "A Museum Case History", Technology and Culture, VI, Number 1 (1965) (SHOT)
2. Oskar von Miller, "German Museum in Munich," American Society of Civil Engineers, LII (January, 1926), 13.

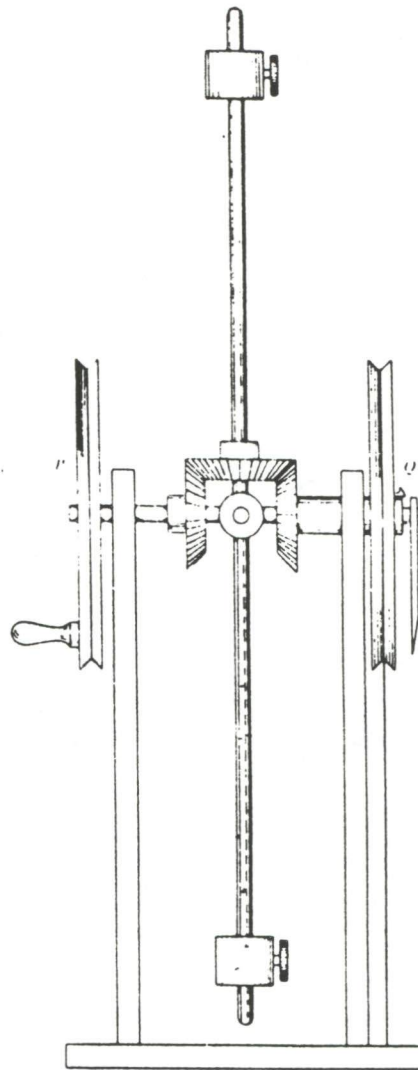


FIGURE 1. Dynamical analogy for two inductively coupled circuits (1865, 1874).

"...Two wheels, P and Q, are geared together through a differential mechanism with adjustable flyweights. Rotations of P and Q represent currents in two circuits; the moments of inertia represent coefficients of induction; a frictional band attached to Q represents the resistance of the secondary circuit. Every feature of electromagnetic induction is seen here. So long as P rotates uniformly, Q remains stationary; but when P is started or stopped, a reverse impulse is transmitted to Q. This impulse is determined by the acceleration, the coefficient of coupling, and the inertia and resistance of Q, in exact analogy with an electrical system."

C.W.F. Everitt, "James Clerk Maxwell", Chas. Scribner's Sons 1975

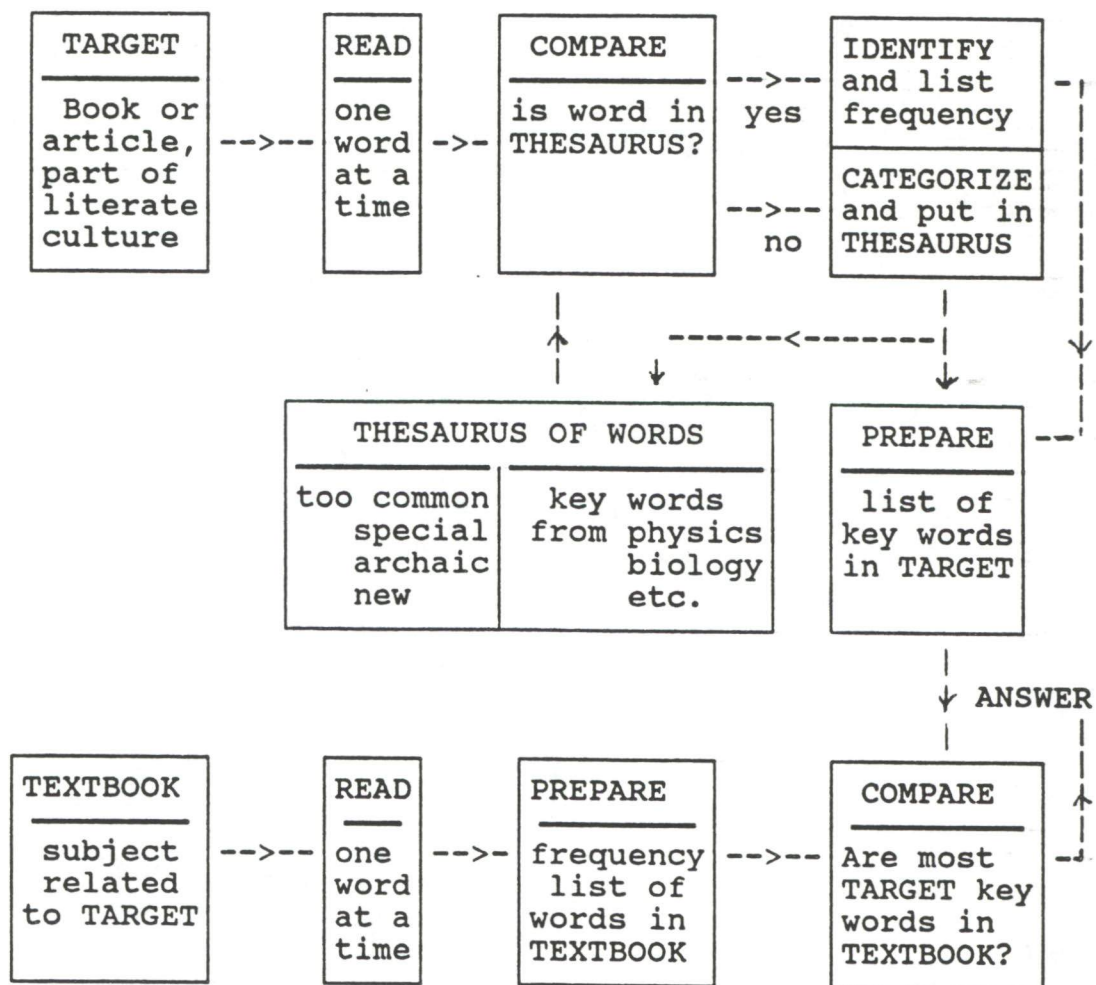


Fig. 2 Evaluation of a Textbook

For a Reader trained with TEXTBOOK to understand TARGET,
it must have given him an adequate vocabulary.

10. 22. 89

Dear Allan,

It was very considerate and thoughtful of you to write. Your warm words of greeting are very much appreciated and I thank you most sincerely for getting in touch.

Considering where we both are, in a sense, Yale and Canada are not doing too badly.

Best wishes,

Sied

P.S. I was very impressed by your comments as reported in the most recent issue of Science.



ALWAYS
USE ZIP



D. Allan Brumley, Director
Office of Science and Technology
The White House
Washington, D.C.

THE WHITE HOUSE
WASHINGTON

December 5, 1989

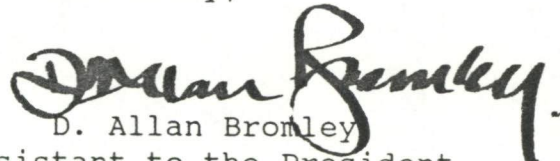
Dear Dr. Davis:

Thank for your letter of September 27 inviting me to participate in your 1990 annual meeting on May 7th.

Unfortunately, I find that the particular date in question is one where I am already committed. That being the case, I will unfortunately be unable to join you, much as I would have liked to do so.

I hope, however, you will keep me in mind in the future and I offer my best wishes for a successful meeting.

Sincerely,

A handwritten signature in dark ink, appearing to read "D. Allan Bromley". The signature is fluid and cursive, with the first name "D. Allan" and last name "Bromley" clearly distinguishable.

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

Dr. Pamela B. Davis
President
American Federation for Clinical Research
50 F Street, NW - Suite 1040
Washington, D.C. 20001



American Federation for Clinical Research

President

Pamela B. Davis, MD, PhD
Case Western Reserve University

President-Elect

Richard A. Cohen, MD
Boston University

Secretary-Treasurer

David Nierenberg, MD
Dartmouth-Hitchcock
Medical Center

Public Policy Committee

Chairman

William N. Hait, MD, PhD
Yale University

Public Policy Committee

Co-Chairman

George Schreiner, MD, PhD
Washington University

September 27, 1989

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

Dear Dr. Bromley:

The American Federation for Clinical Research (AFCR) was pleased to learn of your Senate confirmation as Assistant to the President for Science and Technology. As you may know, the AFCR, the nation's largest organization of biomedical researchers, is comprised of 13,000 physician and non-physician scientists based primarily on university campuses across the country. During the Reagan Administration, our organization had some major concerns about the manner in which the Office of Science and Technology Policy functioned. The AFCR has been a strong proponent of an effective, centralized budget priority-setting apparatus for Federal science spending both within the Administration and the Congressional Budget Committees.

During our 1990 annual meeting, which will be the AFCR's 50th anniversary session, we will hold a public policy symposium focused on the issue of Federal priorities for science and the need to make biomedical research a higher priority within the government's research and development budget. I am writing to invite you to participate in this symposium, which will be held on Monday, May 7, 1990 at the Sheraton Washington Hotel. This special session is scheduled from 1:00 until 2:30 p.m. in the Sheraton Ballroom. We have invited Representative Henry Waxman to provide the Congressional perspective on this issue as well as former Senator Lowell Weicker, who serves currently as President of Research America, an organization formed to educate the public about the accomplishments and funding needs of biomedical research. We will expect an audience of approximately two thousand AFCR members for the symposium as well as press coverage.

The Honorable D. Allan Bromley
Page Two

Lynn Morrison of our Washington Office will be in touch with your staff next week as to whether you will be able to address the symposium. We would be honored by your attendance at our meeting.

Sincerely,

A handwritten signature in cursive script that reads "Pamela Davis".

Pamela B. Davis, M.D., Ph.D.
President

"INVITATION FOR DR. BROMLEY"

DOCUMENT NUMBER: 8910087

SPEECH: Yes ~~No~~ Invitations/symposium

FROM: American Federation for Clinical
Research (AFCR)

DATE OF EVENT: 05/07/90

LOCATION OF EVENT: SHERATON WASHINGTON HOTEL

TIME OF EVENT: 01:00PM

SUBJECT: Public policy symposium focused on the issue of
Federal priorities for science and need to make
biomedical research a higher priority.

RSVP:

CONTACT PERSON: Lynn Morrison

CONTACT NUMBER: (202) 628-3954

INVITATION ACCEPTED: YES

NO

*maybe Jim W
would speak*

DATE OF LETTER: 09/27/89

DATE RECEIVED: 10/03/89

REMARKS:

THE WHITE HOUSE
WASHINGTON

December 1, 1989

Dear Michael:

Many thanks for sending me the 200MM wafer with its 4 megabit chips. I am delighted to hang this on my office wall for the edification of all manner of visitors. It is an excellent demonstration of the fact that we have not lost all our technological lead!

I was delighted to have the opportunity to meet with you and your colleagues at the meeting of the IBM Academy recently.

Again, my thanks and warmest best wishes,

Sincerely yours,



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

Dr. Michael J. Attardo
Route 100
P.O. Box 100
Somers, New York 10589

Dr. Michael J. Attardo
Route 100, P.O. Box 100, Somers, NY 10589

November 8, 1989

Dear Allan,

I thought you might enjoy having this showing IBM's world class leadership in 200MM wafer productivity and our 4 megabit chip technology.

Sincerely,

A handwritten signature in dark ink, reading "m. j. Attardo". The signature is fluid and cursive, with a long, sweeping horizontal line extending from the end of the name.

Mr. D. Allan Bromley
Science Advisor to the President and
Director of Science and Technology Policy
Old Executive Office Building
17th and Pennsylvania Avenue, N.W.
Washington, D.C. 20506

DIRECTOR

RECEIVED