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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: Personal Files

OA/ID Number: 62028
Folder ID Number: 62028-004

Folder Title:
D. Allan Bromley - Personal [4 of 8] [1991]

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

Dear Dr. Bromley:

I would like to thank you and everyone at the Office of Science and Technology Policy who contributed to the success of the Summer Institute in Japan Program 1991. The friends I made, the sights I saw, and the insights I gained are too numerous to mention. But let me say that I am confident that this Summer

Institute was but a first step for me and many other participants towards a positive and long lasting relationship with Japan.

Sincerely

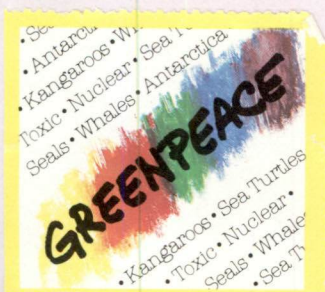
Edgar Knapp

Tsukuba, August 1991

Kasarjian/Knapp
11404 June Drive
Austin, Texas 78753-2950



Dr. D. Allen Bromley
Director
Office of Science and
Technology Policy
725 17th Street N.W.
Washington, D.C. 20506



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Austin, TX 78712-1188
U.S.A.

Tel: +1 (512) 471-9764
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E-mail: knapp@cs.utexas.edu

Edgar Knapp
Ph.D. Candidate

The University of Texas
Department of Computer Sciences

THE WHITE HOUSE
WASHINGTON

September 19, 1991

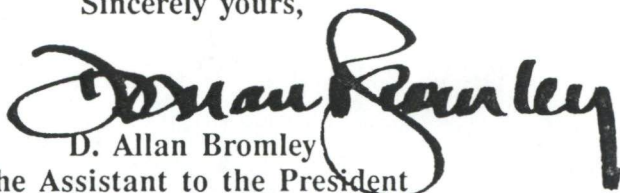
Dear Dr. Kanpp:

I was delighted to get your note from Tsukauba and to learn that the Summer Institute program this year has been a successful one. Feedback from people like yourself is enormously helpful but unfortunately rare.

If your travels bring you to Washington, please do let me know. I would look forward to a more personal report concerning your time in Japan.

With warmest best wishes,

Sincerely yours,


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

Dr. Kasarjian Knapp
11404 June Drive
Austin, Texas 78753-2950

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9123194

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

FROM: MALONE, Rita T.: LEHIGH UNIVERSITY

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/31/91

SUBJECT: PHOTOGRAPHS AND NEWSPAPER CLIPS OF LEHIGH
UNIVERSITY'S COMMENCEMENT CEREMONY.

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: 08/02/91
DEPT RECEIVED:

FILE: P-DAB-PERSONAL

Lehigh University



Office of Media Relations

436 Brodhead Avenue
Bethlehem, Pennsylvania 18015
telephone (215) 758-3170

RECEIVED

July 31, 1991

OFFICE OF THE
DIRECTOR

D. Allan Bromley
Executive Office of The President
Office of Science and Technology
Policy
Washington, DC 20508

Dear Dr. Bromley,

It was a pleasure to meet you briefly at Lehigh University's Commencement. The honorary degree you received in recognition of your lifetime accomplishments was well deserved.

I thought you might like the enclosed photographs and newspaper clips of the Commencement ceremony for your scrapbook.

Thank you for joining Lehigh on such a special day. Congratulations on your honorary degree.

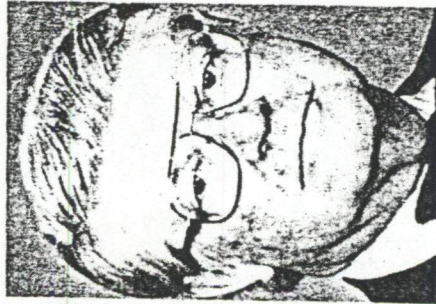
Sincerely,

Rita T. Malone
Director

encl.



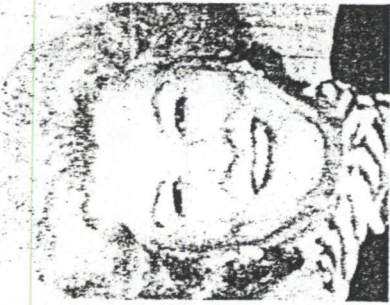
Bill Bradley
...commencement speaker



D. Allan Bromley
...nuclear physicist



Miguel A. Bernal
...Panamanian activist



Muriel M. Berman
...philanthropist



Peter Likins
...Lehigh president



James Forbes
...minister

Lehigh to bestow honorary degrees to six

Lehigh University will award honorary doctoral degrees to six individuals for their lifetime achievements at the university's 123rd commencement exercises on Sunday, June 2, at 2:30 p.m. in Goodman Stadium.

Those to be honored include philanthropist and art patron Muriel M. Berman; Panamanian activist

Miguel A. Bernal, a former Fulbright visiting professor at Lehigh; U.S. Sen. Bill Bradley (D-N.J.), who is commencement speaker; D. Allen Bromley, assistant to the President for science and technology; Baccalaureate speaker James A. Forbes, Jr., senior minister at Riverside Church, N.Y.; and Peter Likins, Lehigh president.

Bernal and Bernal will receive the honorary degree Doctor of Humane Letters; Bradley will be given an honorary Doctor of Laws; Bromley, Doctor of Science; Forbes, Doctor of Divinity; and Likins, Doctor of Engineering.

This year's graduating class is the largest in Lehigh's history. More than 1,200 students will

receive degrees.

To accommodate the number of graduates and their parents, the commencement will be held in Goodman Stadium rain or shine.

Berman is a philanthropist, business woman, cultural patron and optometrist. She and her husband established the Philip and Muriel Berman Center for Jewish Studies

at Lehigh and have funded two chairs in Jewish studies at Lehigh.

She serves on the Board of Governors of the Pennsylvania State System of Higher Education, the executive board of UNICEF and other boards and advisory committees for cultural and charitable groups.

Berman was appointed by Presi-

dent Ford as the U.S. State Department delegate to the U.N. International Women's Year Conference in Mexico City. She received her degree in optometry from the Pennsylvania College of Optometry.

Bernal, a lawyer and journalist, is currently teaching at the National University of Panama where he is director of the Faculty of Law.

MAY 28 1991

MAY 28 1991

Exiled from Panama by deposed dictator Manuel Noriega, Bernal was a Fulbright professor of international relations and government at Lehigh for two years. During that time, he edited and published *Alternativa*, a weekly opposition newspaper which he sent to friends in Panama by facsimile machine.

Bradley, the senior senator from New Jersey, was a Rhodes scholar to Oxford University and played professional basketball for 10 years before his election to the U.S. Senate in 1978. He has been active in the Senate on issues relating to education, child support, health care improvements and the environment. He has led efforts in the Senate to stop reductions in federal aid to education and to promote a balance between athletics and education.

A bill modeled on the principles of the original Bradley Fair Tax legislation became the Tax Reform Act of 1986. His book, *The Fair Tax*, helped spark the national debate to reform the tax laws. He co-sponsored legislation to ban the ocean dumping of sewage sludge and was instrumental in the 1980 effort to create the Superfund to clean up toxic waste dumps.

Bromley, one of the world's leading nuclear physicists, was among the pioneers in the study of the structure and dynamics of nuclei and is considered the father of modern heavy ion science. He was originally scheduled to receive his honorary degree from Lehigh last year but was unable to attend the commencement ceremony due to a family emergency.

Bromley also directs the Office of Science and Technology Policy in the White House.

Forbes is a well-known preacher in the U.S. and Canada. Before assuming his current position in 1989, he was the Joe R. Engle Professor of Preaching at Union Theological Seminary, N.Y. An ordained Baptist minister, he has led workshops for many religious denominations and ecumenical groups on social action and transformation, spiritual renewal, preaching, evangelism and church mission.

Likins became president of Lehigh in 1982 after serving as provost at Columbia University. He is a member of President Bush's Council of Advisors on Science and Technology, the Business-Higher Education Forum, the executive committee of the Council on Competitiveness and the Pennsylvania Economic Development Partnership Board. The author of numerous articles and an engineering mechanics textbook, he is a member of the National Academy of Engineering.

He began his career as a development engineer at the Jet Propulsion Laboratory of the California Institute of Technology and served on the faculties of Columbia and the University of California at Los Angeles where he was honored several times for his teaching. A former member of the NCAA Presidents Commission, Likins was the driving force in the establishment of the Patriot League. He earned his bachelor's and doctoral degrees from Stanford and his master's degree from MIT.

Lehigh to give honorary doctorates to six

Lehigh University will confer honorary doctorates on six people at the university's 123rd commencement June 2.

The six are philanthropist and art patron Muriel M. Berman; Panamanian activist Miguel A. Bernal, a former Fulbright visiting professor at Lehigh, U.S. Sen. Bill Bradley, D-N.J., the commencement speaker; D. Allen Bromley, assistant to the U.S. president for science and technology; baccalaureate speaker James A. Forbes Jr., senior minister at Riverside Church, N.Y.; and Peter Likins, president of Lehigh.

Berman and Bernal will receive an honorary doctorate in humane letters. Bradley will get an honorary doctor of laws degree; Bromley, a doctor of science degree; Forbes, a doctor of divinity degree; and Likins, a doctor of engineering degree.

The degrees honor the six for lifetime achievements.

The commencement will begin at 2:30 p.m. in Goodman Stadium. This year's graduating class is the largest in Lehigh's history: More than 1,200 students will receive bachelor's, master's or doctoral degrees. To accommodate the increased number of graduates and

parents expected to attend, the senior class asked that commencement be held in Goodman Stadium, since any last-minute decision to move the ceremony inside would mean disappointment as well as wasted expenses.

Berman is a philanthropist, businesswoman, cultural patron and optometrist. She and her husband established the Philip and Muriel Berman Center for Jewish Studies at Lehigh and have permanently funded two chairs in Jewish studies at the university. Art work donated by the couple to Lehigh is displayed on all three of the university's campuses.

Bernal, a lawyer and journalist, is teaching at the National University of Panama, where he is director of the law faculty. He was expelled from Panama by deposed dictator Manuel Antonio Noriega.

Bernal was a Fulbright professor of international relations and government at Lehigh for two years. During that time, Bernal edited and published *Alternativa*, a weekly opposition newspaper, which he sent to friends in Panama by facsimile machine. *Alternativa* was the only newspaper distributed regularly in Panama during the last two years of Noriega's rule.

Bradley, the senior senator from New Jersey, was a Rhodes scholar and played professional basketball for 10 years before his election to the Senate in 1978. He has been active in the Senate on issues relating to education, child support, health care improvements and the environment. He has led efforts in the Senate to stop reductions in federal aid to education, and to promote a balance between athletics and education among college athletes.

Bromley, one of the world's leading nuclear physicists, was a pioneer in the study of nuclei and is considered the father of modern heavy ion science. He was to receive his honorary degree from Lehigh last year but was unable to attend the commencement because of a family emergency.

Forbes is a preacher in the United States and Canada. Before assuming his current position in New York in 1989, he was the Joe R. Engle Professor of Preaching at Union Theological Seminary in New York. He is an ordained Baptist minister and has led workshops for many religious denominations and ecumenical groups on social action and transformation, spiritual renewal, preaching, evangelism and church mission.

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MAY 23 1991

THE
MORNING
CALL

COMMENCEMENTS

Even Good People Err, Williams College Hears

Guido Calabresi, dean of the Yale University Law School, delivered the main address to 538 graduating seniors at Williams College yesterday.

Mr. Calabresi told the graduates that even good people could make "catastrophically bad decisions." As an example, he cited the roles played by President Franklin D. Roosevelt and Supreme Court Justices Hugo Black and Earl Warren in the decision to intern Japanese-Americans in World War II.

Mr. Calabresi was also awarded an honorary Doctor of Humane Letters degree during the commencement ceremonies at the school's campus in Williamstown, Mass.

Other recipients of honorary degrees were James H. Billington, the Librarian of Congress; Sara Caldwell, artistic director of the Opera Company of Boston; Takayuki Kimura, an envoy and minister of the Embassy of Japan; the author Jamaica Kincaid; William D. Ruckelshaus, chairman and chief executive of Browning-Ferris Inc.; and Robert D. Terry, professor of the neuroscience and pathology at the University of California at San Diego.

Lehigh University

Senator Bill Bradley of New Jersey addressed the 1,235 men and women in undergraduate and graduate programs at Lehigh University's 123d commencement exercises yesterday.

Mr. Bradley, a Democrat, also received an honorary doctor of law degree from the university in Bethlehem, Pa. Other honorary degrees were awarded to James A. Forbes Jr., the senior minister at Riverside Church in New York City; Muriel M. Berman, a philanthropist; Miguel A. Bernal, a lawyer and educator in Panama who was a critic of the Noriega regime; D. Allen Bromley, a nuclear physicist; and Peter Likins, the president of Lehigh.

Lafayette College

"Adults have failed to run this world, and we are hoping that you will do a better job," the ocean explorer Jacques Cousteau told graduates of Lafayette College yesterday.

In his commencement speech to the 524 graduates in Easton, Pa., he asked for support of a global petition to stop irreversible damage to the earth.

At its 156th commencement, the university also awarded honorary degrees to Mr. Cousteau; the Rev. Alexander L. Boraine, director of the Institute for a Democratic South Africa; Johnnetta B. Cole, president of

Spelman College; Gerald D. Dodd, president of the American Cancer Society; Donald A. Henderson, White House adviser on public health; and Theodore R.Sizer, author of books on secondary education.

The George Wharton Pepper Prize was awarded to Michael Pressman, a graduating senior, for his activities on behalf of the environment.

Wesleyan University

Former Representative Lindy Boggs told members of the 159th graduating class of Wesleyan University yesterday that they could help shape the world.

In her speech at the campus in Middletown, Conn., Mrs. Boggs, a Louisiana Democrat who served 17 years in Congress before retiring last July, warned that while the new global climate was full of exhilarating prospects, the suffering in the world would demand attention "from those who are prepared to render enlightened and devoted service."

This was the 20th anniversary of full-scale enrollment of women at Wesleyan, and in tribute, Mrs. Boggs was chosen to receive an honorary doctorate of law for her involvement in women's issues while in Congress.

There were 625 Bachelor of Arts degrees and 107 advanced degrees awarded.

Honorary doctorates were presented to writer Gwendolyn Brooks; Dr. James P. Comer, an educator and child psychiatrist; Charles E. Exley Jr., chairman of the NCR Corporation; the composer Quincy Jones; Brenda A. Milner, a pioneer of neuropsychology; and Faye Wattleton, president of the Planned Parenthood Federation of America.

Bradley assails the sky-high cost of an education

By CHARLES COHEN
The Globe-Times

SAUCON VALLEY — U.S. Sen. Bill Bradley, D-New Jersey, linked the Lehigh University 1991 graduating class with the world's problems at the commencement address Sunday in a piping hot Murray H. Goodman Stadium.

Bradley, who received an honorary Doctor of Law degree from Lehigh, told the 1,279 undergraduates and graduate students they are entering a rapidly changing world, and just what that change means is still undetermined.

When Bradley quoted comedian and filmmaker Woody Allen, he was not joking.

"Ahead of you lies two paths: One leads to utter despair, the other to utter destruction. May you have the wisdom to choose wisely."

Addressing both the students and the parents who were baking in the sun, Bradley said the high price of college is out of sight for much of American society.

He said not only the poor and minorities, but the middle- and some higher-income people can no longer pay for college.

Scholarships, the federal loans and trust funds no longer do the job of getting people with potential the education they need to succeed. And those who get through college must find high-paying jobs to pay off their college debts.

Bracing themselves to be ushered into the graduation ceremonies, students joked about the pressures of finding high-paying jobs and the bills they have accumulated for their education.

"For \$80,000, all we get is this tassel," said Chuck Olczak, a computer-engineering major.

DiAnne McMillan, who was lit-

erally a walk away from getting her master's in political science, said she had to take a year off and attain financial aid to get her Ph.D.

Noting that getting through college now means finding huge amounts of money to pay the bills as well being able to handle to the academics, Bradley offered a solution:

■ The Self-Reliance Scholarship option. He said the federal government should establish a scholarship option, which allows students to establish a fund to pay back college costs after they have established careers. He said the fund would provide money for future generations.

Bradley said college has become an economic privilege for a class society with "a racial wall" dividing the "haves" from the "have nots." He said people without an education are people without a future.

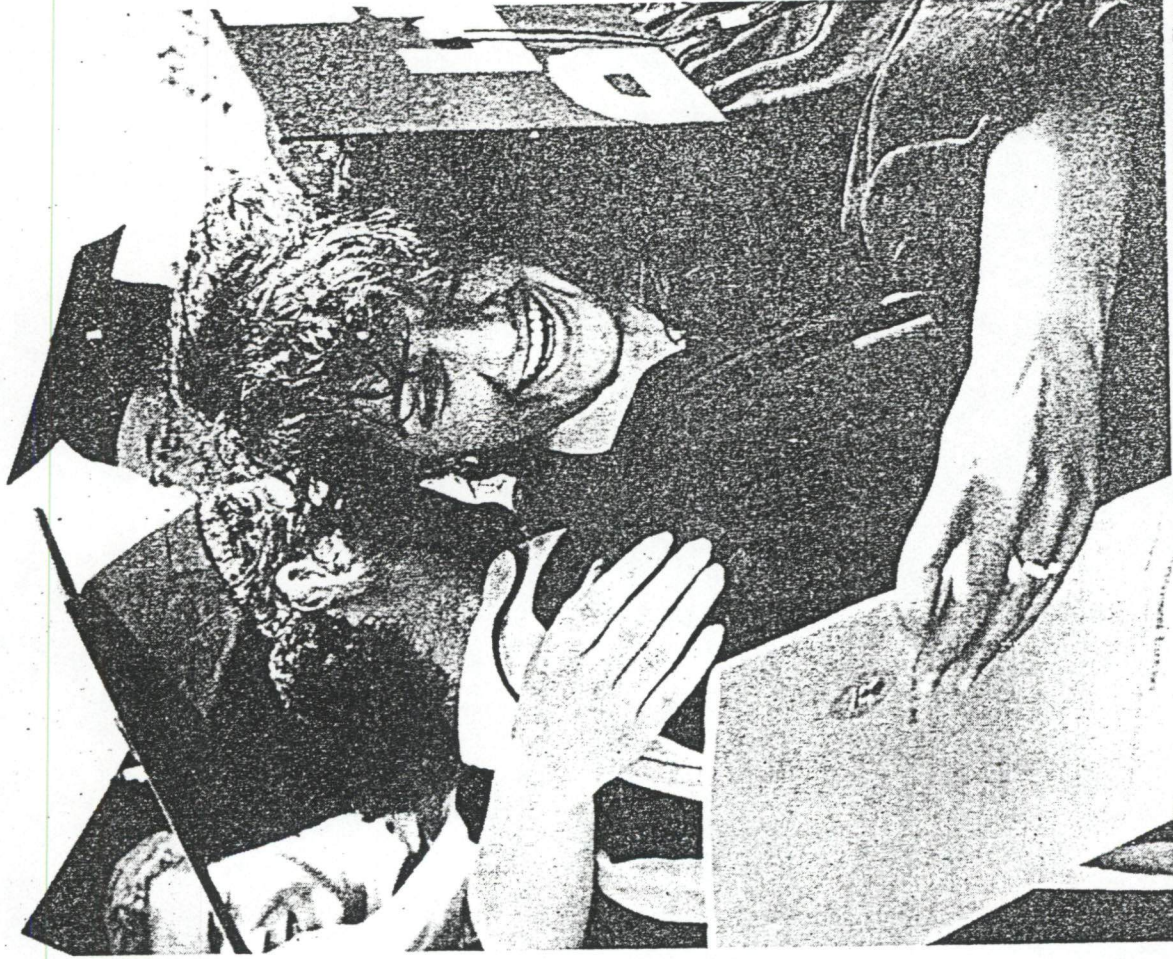
"Families should not have to choose between paying the costs all up front or forcing their children to take out impossible loans," he said.

With much of the society lacking a college education, the necessary key to gain entry into "the better life," America's economy is in jeopardy, racial tension is heating, and its position in the international market is declining.

Bradley said in the past two years the world optimistically watched the thawing of the Cold War with the reunification of Germany and the democratization of eastern Europe. Then came bursts of strife.

He said America's triumph in the Persian Gulf could be seen as the establishment of a new-world

Please see LEHIGH /A8

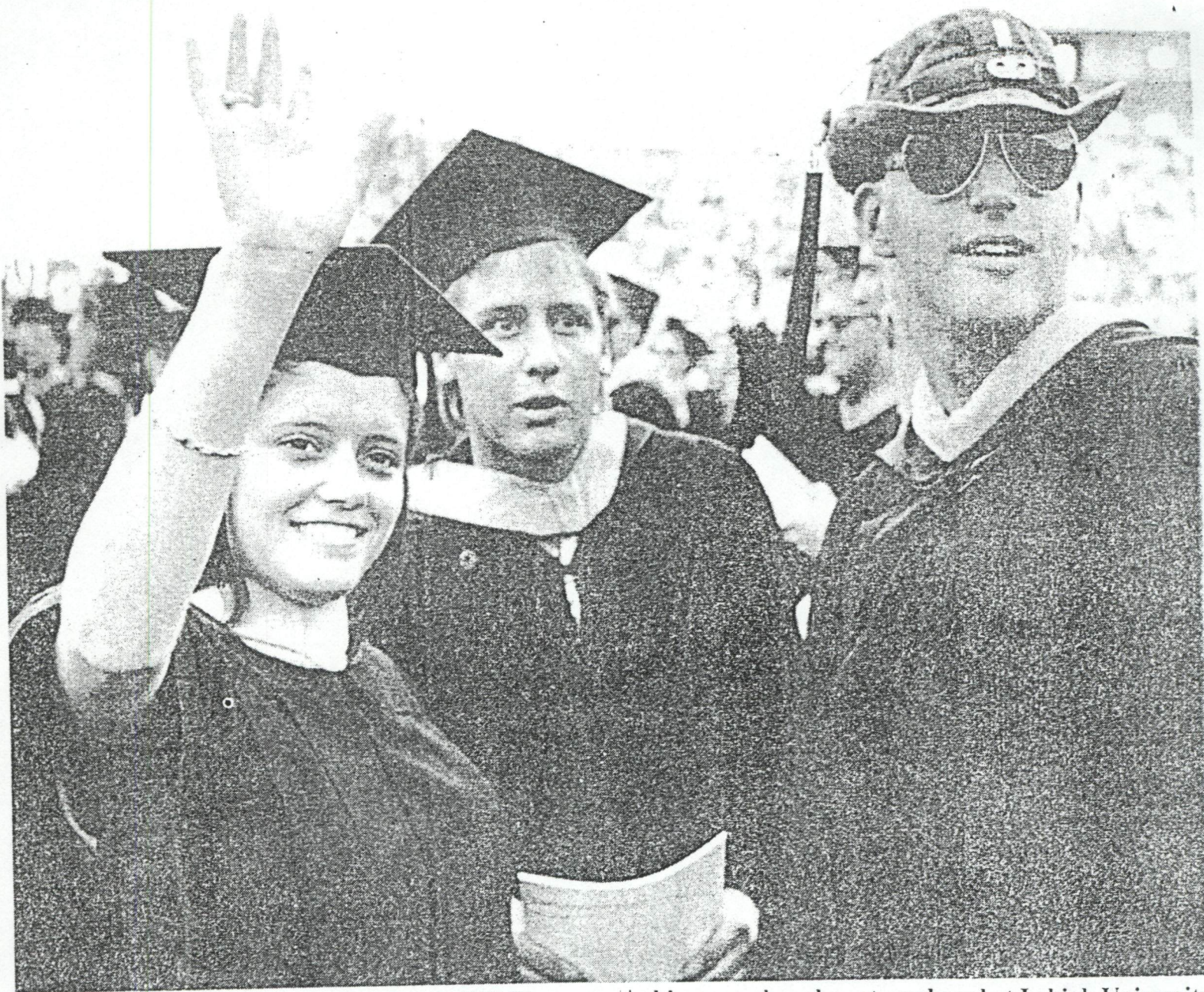


BOB ESPOSITO / The Globe-Times

Yardenia Raban, of Bethlehem, hugs schoolmate after Lehigh ceremony.

JUN 03 1991

Globe-Times



Caroline Bravo waves to a well-wisher as Bill Thumm, right, wears unconventional graduation headgear after

his mortarboard went overboard at Lehigh University graduation.

LEHIGH

■ From page A7

order or the resurgence of an old-world problem.

While allied involvement in the gulf proved the world will not tolerate countries being invaded by a dictator, Bradley said international law fails to address the agitating problems of racism and ethnic strife throughout the world, including the United States.

Now there are questions about the Palestinians and the Kurds getting their own homeland, he said.

"The thaw" of the Cold War "broke open cracks and crevices that released toxins of religious and racial hatred," he said.

So what does international affairs

have to do with the students who were sweating on Goodman field?

Plenty, according to Bradley.

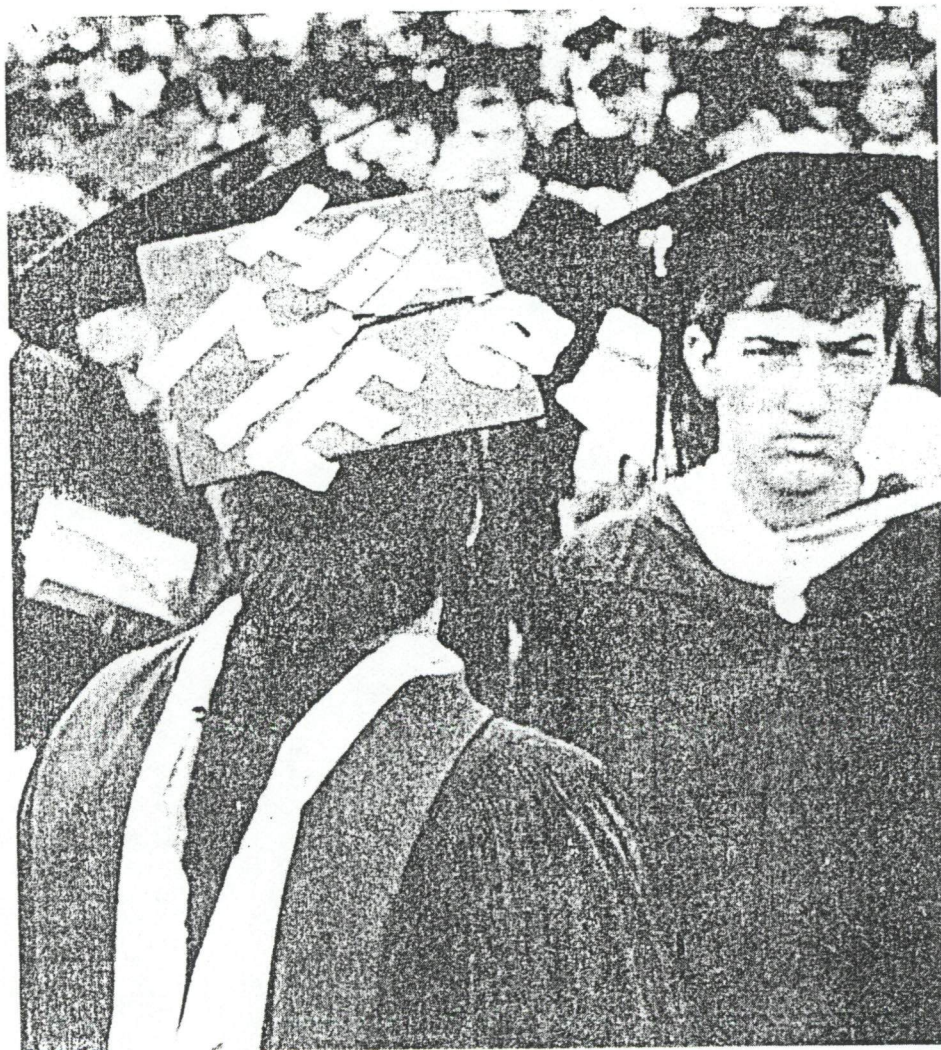
In a radically changing world, education is no longer just necessary to pursue a career, but a must to help the United States establish itself.

Before this country can take a lead in "the new-world order," it first has to deal with its own problems.

Honorary degrees were presented to Muriel Berman, philanthropist; Miguel Bernal, professor of law, University of Panama; James Frobes Jr., senior minister, Riverside Church, New York City; D. Allan Bromely, assistant to the president for science and technology; Bradley, and Peter Likens, president of Lehigh University.



U.S. Sen. Bill Bradley speaks at Lehigh University.



A Lehigh University graduate expresses his hopes on his headgear.

"CORRESPONDENCE TRACKING"

TYPE: ACTION DOCUMENT NUMBER: 9123049
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS

FROM: KNAUSS, John A.: UNDER SECRETARY OF COMMERCE FOR OCEANS &
ATMOSPHERE

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/29/91

SUBJECT: REQUEST FOR HELP REGARDING CHUCK DRAKE.

DIRECTORATE STAFF
ASSIGNED: D. Allan Bromley ASSIGNED:

ACTION STAFF
REQUIRED: AS APPROPRIATE ACTION:

SENDER'S DUE DATE:
OSTP DUE DATE: 08/13/91 STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT:

COPIES TO:

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

CLOSED

OSTP RECEIVED: 07/30/91
DEPT RECEIVED:

FILE: P-DAB-PERSONAL

MS
Close out.
DAB called Drake
8/15
JH



3049

The Under Secretary of Commerce
for Oceans and Atmosphere
U.S. Department of Commerce
Washington, D.C. 20230

RECEIVED

JUL 29 1991 91 JUL 30 P 3:12

OFFICE OF THE
DIRECTOR

Honorable D. Allan Bromley
Assistant to the President for
Science and Technology
Washington, D. C. 20506

Dear Allan,

This is simply a quick reminder. I am trying to convince Chuck Drake to come to work for NOAA. Every person of Chuck's status should be prepared to give a couple of years in the service of his country. I would appreciate your help.

Sincerely,

A handwritten signature in dark ink, appearing to read "John".

John A. Knauss

*Called
Aug 15, 1991*

3049



The Under Secretary of Commerce
for Oceans and Atmosphere
U.S. Department of Commerce
Washington, D.C. 20230

RECEIVED

JUL 29 1991 91 JUL 30 P 3: 12

OFFICE OF THE
DIRECTOR

Honorable D. Allan Bromley
Assistant to the President for
Science and Technology
Washington, D. C. 20506

Dear Allan,

This is simply a quick reminder. I am trying
to convince Chuck Drake to come to work for
NOAA. Every person of Chuck's status should
be prepared to give a couple of years in the
service of his country. I would appreciate
your help.

Sincerely,

A handwritten signature in dark ink, appearing to read "John A. Knauss". The signature is stylized, with a large initial "J" and a cursive "Knauss".

John A. Knauss

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION DOCUMENT NUMBER: 9123128
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS

FROM: AGNEW, Harold M.

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/29/91

SUBJECT: A COPY OF THE ARTICLE, "LEASING: A SOLUTION TO
NUCLEAR PROLIFERATION" AND IT'S IMPACT.

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
PHYSICAL SCIENCES

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

CLOSED

OSTP RECEIVED: 08/01/91 FILE: P-DAB-PERSONAL*P-PS-ENERGY
DEPT RECEIVED:

3128

HAROLD M. AGNEW

322 PUNTA BAJA DRIVE
SOLANA BEACH, CA 92075

(619) 481-8908

July 29, 1991

RECEIVED

Aug
91 JUL 1 A10:14

OFFICE OF THE
DIRECTOR

Dr. Allan Bromley
Science Advisor
Office of Science & Technology Policy
Executive Office of the President
Washington, D. C. 20500

Dear Allan,

I attended a World Resource Institute conference on a "Sustainable World". Runby Gus Speth and a group of anti's. Especially anti-nukes. However, the enclosed article written about 10 years ago caught their attention. May even have turned some of them around. Also gave them a lecture on inherently safe reactors. They read my little newspaper comment.

Hope to see you soon. Have written Selin a note and enclosed the article too.

Sincerely,



Enc.

HAROLD M. AGNEW

Leasing: a solution to nuclear proliferation

Attention to the growing problem of nuclear proliferation was first directed at India's peaceful explosive. More recently it was Israel's destruction of Iraq's research facility that rekindled concern.

What is continually ignored is the fact that since the end of World War II the United States in particular has been exporting what was, and is, the key to success in the nuclear field, namely, knowledge. We have been training mathematicians, chemists, physicists, and engineers in the disciplines required to develop nuclear energy for electrical power or for peaceful explosives. I suspect that half of the key scientists involved in India's and Iraq's programs received some part of their professional training in the United States.

It is too late to stop this transfer of knowledge because a generation has been taught, and all the needed information has been published and distributed. Moreover, trying to pretend that nuclear science and technology are the proprietary preserve of any nation is foolhardy and ultimately self-defeating. We didn't assist the Russians or Chinese in nuclear technology. They became nuclear powers because Russian and Chinese scientists and engineers are the equal of ours.

There is also no question in my mind that many countries, over the next 50 years and beyond, will have no alternative but to exploit nuclear energy if their people are ever to realize a fraction of their expectations. The United States has been inefficient in its use of energy, and with available technology can and will make do with

less. But the greater part of the rest of the world cannot get along with less energy, but must have more. And that energy must be available at a reasonably low cost. So it's not just that nuclear "secrets" can't be kept from smart people everywhere; it's also that there is an absolute need in most of the world for nuclear energy, and this need will grow.

The dilemma, of course, is that if developing nations are supplied with the means to produce nuclear energy, how can those nations which provide the technology and the hardware hope to inhibit the proliferation of nuclear explosives, while still providing the means of raising the standard of living of these poorer nations through nuclear energy?

The United States and other nuclear suppliers have been following a procedure that is replete with loopholes. The Non-Proliferation Treaty, to me, is a license to steal. If a nation signs, the nuclear suppliers are obliged to provide all requested assistance in the nuclear field, but a signator can withdraw from the treaty with no penalty and only 90 days' notice. International Atomic Energy Agency safeguards may detect the covert diversion of plutonium from a reactor, but they cannot stop overt utilization for any purpose. Sanctions are a diplomatic, not a safeguard, problem.

At present, when nuclear suppliers sell a reactor to a nation, they also sell the nuclear fuel and leave it up to the purchaser to solve the problem of disposing of the spent fuel elements which contain plutonium, residual uranium-235, and fission products,

under safeguards but with no specified sanctions.

A reactor without fuel poses no threat. If the supplier nation simply leased fuel on the basis of its energy content—instead of selling it—to the nation purchasing the reactor, and if the fuel then reverted to the supplier after it had served its purpose, there would be no problem about what the receiving nation might do with the residual plutonium.

The question of recycle need never arise, as far as the lessor is concerned, since the client nation has contracted for energy only, not the ownership of the fuel elements. The plutonium, fission products, and so forth would belong to the supplier nation. And that nation, already a nuclear power, would decide what was to be done with the spent fuel. The multitude of fears and questions which have arisen with regard to providing reactors to the Middle East and Korea, for example, need not exist. There would be no need for those nations even to consider having a recycling plant because they would own no fuel to recycle.

The pending agreement for the sale of a reactor to Egypt appears to offer this feature, and the Reagan Administration is to be commended for its initiative. If this is to be our future policy, and if the nuclear powers would simply all agree never to sell the fuel but simply to lease it at a fee based upon the fuel's capacity to deliver a certain amount of thermal en-



Harold M. Agnew, a physicist and former director of the Los Alamos Scientific Laboratory, is president of the General

Atomic Company in San Diego, Calif. 92138. He worked with Enrico Fermi to achieve the first self-sustaining nuclear chain reaction in 1942. He has served in many advisory capacities to the U.S. government.

ergy, a great deal of world concern could be alleviated. It would also make much simpler the concept of international regional nuclear recycling and waste-disposal centers. Leasing is a common practice in the West; the larger computer suppliers and copy machine manufacturers have been doing it for years.

Such a procedure will not prevent major industrial nations from developing a nuclear industry or from developing nuclear explosives, but it will prevent the government of an underdeveloped or small nation, which has a legitimate need for nuclear power, from being tempted to develop nuclear explosives. It would also clear the air with regard to a nation's eventual intentions. If a government refuses to accept a nuclear power contract wherein the fuel is provided only through a lease agreement, and with its final disposition to be determined by the supplier, then it clearly must have more in mind than providing clean, cheap energy to benefit its people. Leasing is the current practice of the Soviet Union with respect to the nations it supplies.

The developing countries will argue that this is discrimination and supplier cartel. They're right. But what are the purposes and effects of the discrimination? OPEC, for example, is a discriminatory cartel to raise prices and keep them as high as the traffic will bear. Mandatory leasing by suppliers, however, confers a financial benefit on recipient states, which will not have to capitalize fuel inventory. This is in return for isolating supply from the uncertainties of nuclear proliferation events such as India's explosion.

Leasing also will guarantee long-term fuel supplies because the supplier nations will have to do something to recoup residual values in spent fuels. They will have to reprocess, when the overall economics so dictate, and this can be done most economically on an

international basis. The suppliers, as fuel bankers, can't afford to sit on wasting assets—that is, plutonium and uranium. Plutonium will be available for recycle, but only when it makes economic sense; and when it does there will be firm controls on "the plutonium economy" because the fuel will be available only on lease terms.

Such a policy finally leads to an international "fuel bank," controlled by suppliers in whom ownership of special nuclear material is vested. The retained property rights should provide a much firmer basis in international law for safeguards inspection and, if necessary, action by force to recover property in the event of misuse.

It probably also makes sense to lease to utilities and other users within the United States. This procedure can help the utilities financially, and they need it right now. But it also provides a much firmer foundation for domestic safeguards. Diversion in this country is really a hostile act against the government, with a presumption of

threat to national security. It should not be regarded as simply an attempt to steal property, where redress under most applicable state laws is limited to the value of the property.

The fundamental reason the "Private Ownership Act" was passed in 1964 was to get the government out of the role of banker. The earliest international agreements for cooperation were on a government-to-government lease, and then only for research purposes. When power reactor agreements began to be negotiated, foreign governments were obliged to retain title to transferred material for power reactors until private ownership was permitted in the United States.

It's time to rethink these steps. We must address the need to establish an international nuclear fuel bank, where title is held by the participating supplier governments and fuel is available only on lease terms to all users. Treaty arrangements could then put real teeth in what steps suppliers could take if clients cheated or misused leased materials. □

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9122647

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

FROM: PRINIPIA INFORMATION RESEARCH GROUP, INC.

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE:

SUBJECT: ANNOUNCEMENT OF THE FORMATION OF THE PRINCIPIA
INFORMATION RESEARCH GROUP, INC. TO PROVIDE
MULTI-DISIPLINED MANAGEMENT SERVICES.

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

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE:

EXT:

REMARKS:

CLOSED

OSTP RECEIVED: 07/23/91
DEPT RECEIVED:

FILE: P-DAB-PERSONAL

*Jonathan P. Pinder, Bruce S. Surface, James F. Daughtry
are pleased to announce the formation of:*

Principia Information Research Group, Inc.

*to provide Multi-disciplined Management Services
specializing in:*

*Cost Savings and Operations Efficiency Improvement
for Government and Private Industry*

*Based on unique capabilities for Legal Analysis
in Antitrust and Contract Monitoring Using Computers
including:*

*Financial Revenue/Cost Analysis;
Market Research, Economic Trend Forecasting;
Cost/Value Engineering, Automated Cost Estimation;
Construction Management;
Resource Allocation, Land Use and Environmental Issues.*

The Address and Telephone are:

*Koger Executive Center
Northampton Building, Suite 230
3725 National Drive
Raleigh, North Carolina 27612*

(919) 781-1900

Effective May 10, 1991

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9122882

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

FROM: WEBER, Arnold R.: NORTHWESTERN UNIVERSITY

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/22/91

SUBJECT: RE: PICTURES TAKEN AT THIS YEAR'S COMMENCEMENT.

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:

OSTP RECEIVED: 07/29/91
DEPT RECEIVED:

FILE: P-DAB-PERSONAL

CLOSED

2882

NORTHWESTERN UNIVERSITY
EVANSTON — CHICAGO

OFFICE OF THE PRESIDENT
EVANSTON, ILLINOIS 60208

91 JUL 29 A10:59

OFFICE OF THE
DIRECTOR

July 22, 1991

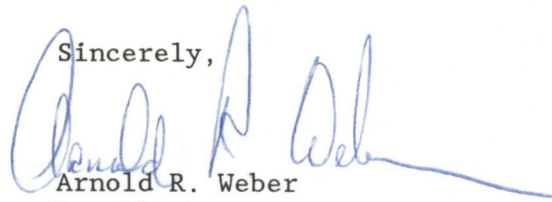
Dr. D. Allan Bromley
Assistant to the President
for Science and Technology
Old Executive Building, Room 360
17th Street & Pennsylvania Avenue, N.W.
Washington, D. C. 20506

Dear Dr. Bromley:

It was an honor and a pleasure to have had you with us
for Commencement this year. As mementos of the occasion, I
have enclosed some pictures taken at the time of your
"graduation."

Best wishes.

Sincerely,



Arnold R. Weber
President

ARW:jl
Enclosures

"CORRESPONDENCE TRACKING"

TYPE: ACTION DOCUMENT NUMBER: 9122887
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS

FROM: SIMMONS, H.E.: DUPONT

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/22/91

SUBJECT: A REQUEST FOR A LIST OF POSSIBLE DATES THAT DR.
BROMLEY WOULD BE ABLE TO VISIT.

DIRECTORATE STAFF
ASSIGNED: DIRECTOR'S OFFICE ASSIGNED:

ACTION STAFF
REQUIRED: FOR DAB'S SIGNATURE ACTION:

SENDER'S DUE DATE:
OSTP DUE DATE: 08/12/91 STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT:

COPIES TO: D. Allan Bromley
Steve Olson
CLOSED

WHITE HOUSE TRACKING #: CONTACT PERSON:
PHONE: EXT:
REMARKS: The action is to the Director's Office for Marian Nida.

Contact 302 / 774-2107
Mr. Vero
OSTP RECEIVED: 07/29/91 FILE: P-DAB-PERSONAL
DEPT RECEIVED:

9/10/11 - A Can called via Mr. Vero per DAB!

2887



WILMINGTON, DELAWARE 19898

VICE PRESIDENT
SENIOR SCIENCE ADVISOR

RECEIVED

91 JUL 29 AM : 07

OFFICE OF THE
DIRECTOR
July 22 1991

Dr. D. Allan Bromley
The Assistant to the President for
Science and Technology
The White House
Washington, D.C. 20506

Dear Allan:

I, too, was delighted to see you and have a chance to participate at the Langenberg inauguration. We are all pleased that you enjoyed the experience of the Lavoisier Medal presentations and let me say again what a great hit your comments were.

All of us here look forward to a visit by you at your convenience. If your secretary could let me know a list of possible dates, we will go to work on them. I might suggest a half day with a stay over for dinner with some of us followed by an early morning train back. Anything that suits your plans, however, we can accommodate.

I have already been conferring with Bill and helping him assemble a list of names for his replacement.

We look forward to hearing from you soon. Best personal regards,

Sincerely,

A handwritten signature in dark ink, appearing to read "H. E. Simmons", with a stylized flourish at the end.

H. E. Simmons

HES/amf

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9122945

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

FROM: RIES, Carol A.: THE OHIO STATE UNIVERSITY

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/17/91

SUBJECT: ENCLOSED MEMENTOS OF THE OHIO STATE UNIVERSITY
WINTER QUARTER COMMENCEMENT.

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: 07/29/91
DEPT RECEIVED:

FILE: DAB-PERSONAL



Office of Special Events

1120 Lincoln Tower
1800 Cannon Drive
Columbus, OH 43210-1230
Phone 614-292-9051

RECEIVED

91 JUL 29 P 3: 54

July 17, 1991

OFFICE OF THE
DIRECTOR

Dr. D. Allan Bromley
Executive Office of The President
Office of Science and Technology
Washington, D.C. 20500

Dear Dr. Bromley:

We hope you will enjoy the enclosed mementos
of The Ohio State University Winter Quarter
Commencement.

Sincerely,

Carol A. Ries
Director

Enclosures

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION DOCUMENT NUMBER: 9122428
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS

FROM: HUGHES, Robert E.: ASSOCIATED UNIVERSITIES, INC.

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/17/91

SUBJECT: RE: PICTURES OF THE RHIC CELEBRATION AT BROOKHAVEN
ON 04/22/91.

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:

*Send
note of thanks
July 22
DAB*

OSTP RECEIVED: 07/19/91
DEPT RECEIVED:

FILE: *p*-DAB-PERSONAL

THE WHITE HOUSE
WASHINGTON

August 2, 1991

Dear Bob:

Thank you for your note of July 17 in which you enclosed the wonderful pictures of the RHIC celebration.

I am glad that I was able to join you for the very special occasion at Brookhaven. Despite the cold, it was a day that warmed the hearts of everyone associated with the projects.

With warmest best wishes,

Sincerely yours,



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

Mr. Robert E. Hughes
President
Associated Universities, Inc.
1400 16th Street, Northwest, Suite 730
Washington, D.C. 20036

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9122428

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

FROM: HUGHES, Robert E.: ASSOCIATED UNIVERSITIES, INC.

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/17/91

SUBJECT: RE: PICTURES OF THE RHIC CELEBRATION AT BROOKHAVEN
ON 04/22/91.

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: 07/19/91
DEPT RECEIVED:

FILE: *W* DAB-PERSONAL *AA Life Sciences*

2428
STRAITHMORE BOND
ASSOCIATED UNIVERSITIES, INC.
1400 16TH STREET, N.W., SUITE 730
WASHINGTON, D.C. 20036
25% COTTON FIBER USA

OFFICE OF THE PRESIDENT

RECEIVED

202/462-1676

91 JUL 19 AIO 05

OFFICE OF THE
DIRECTOR

July 17, 1991

Dr. D. Allan Bromley
Director, Office of Science &
Technology Policy
Old Executive Office Building
17th St. & Pennsylvania Avenue, NW
Washington, DC 20509

Dear Allan:

Enclosed are a few pictures of the RHIC celebration at Brookhaven on April 12, 1991. Frozen fingers notwithstanding, there were plenty of warm smiles to go around. Thank you again for coming.

With best regards.

Sincerely,

Bob

Robert E. Hughes
President

Enclosures

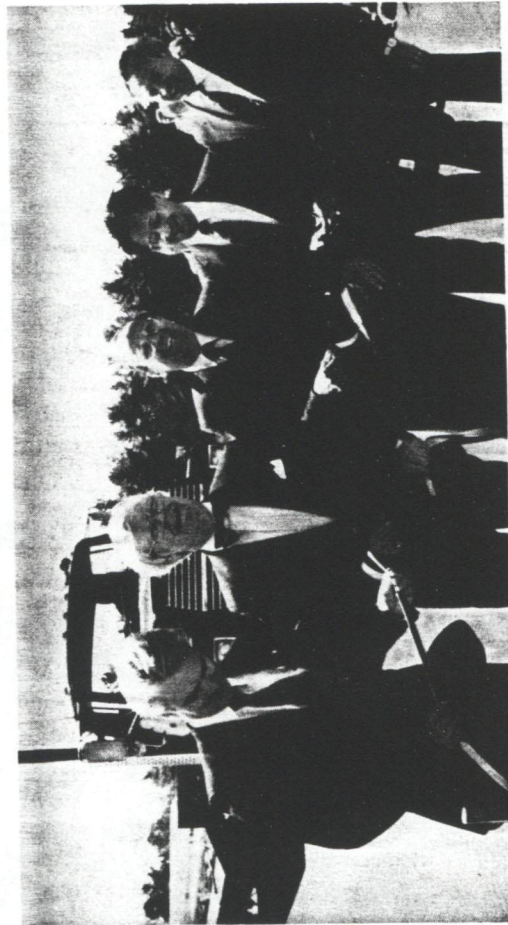
Ceremony Marks Start of RHIC Construction; President's Science Advisor Gives Keynote Address

Under bright blue skies on a crisp April 12, almost 500 BNLers and visitors gathered last Friday morning to celebrate the start of construction of BNL's Relativistic Heavy Ion Collider (RHIC).

Hosting the ceremony, which was held atop the RHIC ring, was BNL Director Nicholas Samios, who said, "We thought this would be an appropriate time to express our thanks and gratitude to the many individuals who have made RHIC possible, and, further, to acknowledge the efforts and dedication of those who are bringing RHIC into operation and fruition."

One person acknowledged as instrumental in helping the RHIC Project to become a reality was the keynote speaker: D. Allan Bromley, Science Advisor to President George Bush. A nuclear physicist formerly with Yale University, Bromley was a long-time summer visitor to BNL and headed the Lab's RHIC Policy Committee until he assumed his present post.

"I take enormous satisfaction out of seeing the next phase of construction of this marvelous facility beginning," Bromley commenced. "It's going to assure Brookhaven a pioneering role in world nuclear physics for a great many years to come. And it is going to — as a truly unique facility, world-class, unique within



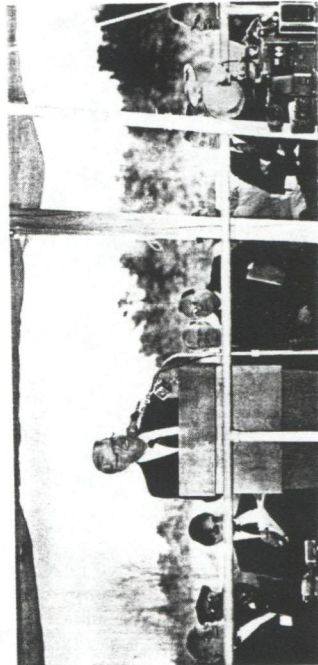
Cutting the ribbon to mark the start of construction of the Relativistic Heavy Ion Collider (RHIC) are: (from left) Suffolk County Executive Patrick Halpin, Presidential Science Advisor D. Allan Bromley, Senator Alfonse D'Amato, BNL Director Nicholas Samios and Congressman George Hochbrueckner. On the flatbed truck behind them is a full-length RHIC dipole magnet, about to be ceremonially delivered to the RHIC tunnel.



Speaking at the RHIC ceremony was Wilmot Hess, Associate Director of the U.S. Department of Energy's Office of High Energy & Nuclear Physics.

raise matter to a temperature roughly one hundred thousand times hotter than the temperature at the center of the sun. Under these conditions, a new form of subatomic matter — a quark-gluon plasma — is expected to be created, duplicating conditions that may have existed in the early universe immediately after the Big Bang.

In his remarks, Bromley also congratulated fellow speaker Senator Alfonse D'Amato, for his "strong and



Robert Hughes, President of Associated Universities, Inc., speaks at the April 12 RHIC

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9122648

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

FROM: DAVIS, Jay C.: LAWRENCE LIVERMORE NATIONAL LABORATORY

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/17/91

SUBJECT: RE: AMS ACTIVITY AND MENTION OF THE POSSIBILITY OF
GIVING OSTP A SUMMARY BRIEFING ON THE IRAQI PROBLEM
WHEN HE RETURNS IN MID-AUGUST.

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
LIFE SCIENCES
Marian Nida

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

CLOSED

OSTP RECEIVED: 07/23/91
DEPT RECEIVED:

FILE ⁷⁻ DAB-PERSONAL*LIFE SCIENCES



2648
Lawrence Livermore National Laboratory

RECEIVED

July 17, 1991

91 JUL 23 P 2: 45

OFFICE OF THE
DIRECTOR

Professor D. Allan Bromley
Executive Office of the President
Old Executive Office Building, R-360
17th and Pennsylvania Avenue, NW
Washington, DC 20506

Dear Allan:

Necrah Bond

I'm sorry to have missed connections with you yet again. It might be better use of Marian's time to just instruct her to hang up when she hears my voice. Rarely has an individual worked so diligently and been able to achieve so little for her efforts.

I'd wanted to drop by to fill you in on a couple of things. The AMS activity goes very well. Our UC Steering Committee has given the work a ringing endorsement, calling it the "most valuable example to date of laboratory-campus collaboration." Our internal research has gone well. The biomedical portion has been given a five-year NIH/NCI grant for carcinogen/mutagen work, we expect DOE funding for a collaborative research project with Caterpillar to investigate the origin of particulates in combustion in diesel engines, and we are developing and testing new technology for bulk sample preparation and tritium AMS for clinical work. Funding for geochemistry and paleoclimatology work seem to be the hardest to develop. However, David Galas at OHER is receptive to taking ownership of us as both biomedical and climate-related research programs fall within his purview. Hans Mark is making strong statements to Secretary Watkins about the quality of our work; we hope for a trickle-down effect eventually.

I've broadened our program with a major push in the microbeam area as well. With our Sandia collaborators, we are stressing intelligence and structural biology uses of this tool. Internally, we appear to have the best method for the precision characterization of ICF targets. Proton energy loss tomography sure beats radiography any time. If you toss in PIXIE and neutron time-of-flight to measure D and T distributions, their problems are pretty well wrapped up.

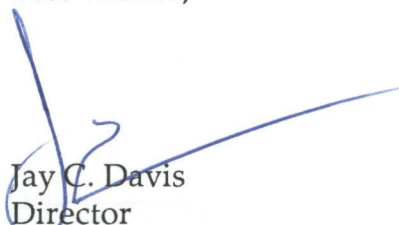
July 17, 1991
Page 2

I've also been leading the Laboratory's effort to respond to Hans Mark's tasking on new sample acquisition and analytical tools for a quick response nuclear forensics program. Present technology can return samples in 72 hours at best and take days to provide further answers such as isotopic signatures. Having stood on the ground at Tuwaitha taking samples that could have been acquired with RPV or even pod-mounted systems during the combat, I've got some typically strong opinions on how to proceed.

Off to Vienna Monday night to start another stint of nuclear archaeology in Iraq. There was fear and trembling at LLNL when they found out that I would address the Security Council. My old viewgraph offering Massachusetts as a Palestinian homeland still sticks in people's minds for some reason. Will be glad to give your office a summary briefing on the Iraqi program when I get back in mid-August. These people were doing a first rate job. I've made a strong request to be part of the debriefing team for the project leadership if they ever come out.

Keep holding the fort and doing good work. Seeing you stalk down the corridor like a lion last week told me that you were bearing up under what must be becoming an ever more difficult job.

Best wishes,



Jay C. Davis
Director
Center for Accelerator
Mass Spectrometry

JCD:nms

THE WHITE HOUSE
WASHINGTON

July 31, 1991

Dear Jay:

I too am very sorry that we missed making contact on your last trip through, but my schedule has been a very hectic one. I have not, however, given up and I hope that this also applied to you. It is in the nature of statistics that one of these days our paths will actually cross here in Washington.

I was delighted to learn that the AMS activity is going well and your leadership is clearly what has made the difference in this entire area. You were entirely correct in that this is a field that can enliven a number of the California campuses. I will have an opportunity to talk to David Galas in the near future because I have convinced him to chair the government-wide examination of where we are and where we are going in biotechnology and see him quite frequently.

The microbeam area seems to me a very important and widely applicable one as well and I have a feeling that its use is just beginning to be appreciated.

I am sorry that interaction last time was so brief, but I was on my way to the Oval Office and nothing, but nothing, stands in the way of those particular sorties.

With all best wishes,

Sincerely yours,



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

Dr. Jay C. Davis
Director
Center for Accelerator Mass Spectrometry
Lawrence Livermore National Laboratory
Post Office Box 808
Livermore, California 94550

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION DOCUMENT NUMBER: 9122671
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS

FROM: SCHMOKE, Kurt L.: MAYOR, CITY OF BALTIMORE

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/16/91

SUBJECT: RE: THE LUNCHEON FOR DON LANGENBERG.

DIRECTORATE STAFF
ASSIGNED: ASSIGNED:

ACTION STAFF
REQUIRED: ACTION:

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

COPIES TO: DAB

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

CLOSED

OSTP RECEIVED: 07/24/91 FILE: P-DAB-PERSONAL
DEPT RECEIVED:

CITY OF BALTIMORE

KURT L. SCHMOKE, Mayor



OFFICE OF THE MAYOR

250 City Hall
Baltimore, Maryland 21202

RECEIVED

91 JUL 24 A 9:55

OFFICE OF THE
DIRECTOR

July 16, 1991

Dr. Allan Bromley
Science Advisor to the President
Old Executive Office Building
17th and Pennsylvania Avenue, N.W.
Washington, D.C. 20500

Dear Dr. Bromley:

It was good to see you again at the luncheon for Don Langenberg. I am delighted Dr. Langenberg has taken the helm of The University of Maryland, knowing of his commitment to a university's role in urban centers.

I wanted to thank you for your kind words about Baltimore and your understanding of the vision we are pursuing here. We have shown in Baltimore how public-private partnerships can transform urban decay into a vibrant revitalized city center. That same partnership has now developed the Columbus Center for Marine Research & Exploration and is providing the foundation for the strengthening of Baltimore's human resources.

I hope we will have an opportunity to work with you to "enhance America's technology leadership."

All the best.

Sincerely,

Kurt Schmoke
Mayor

KLS:ral

THE WHITE HOUSE
WASHINGTON

July 31, 1991

Dear Kurt:

I was delighted to have the opportunity to see you at the luncheon for Don Langenberg and it seems indeed only a very few years since you were raising hell as a Yale undergraduate.

Everything I learned about Baltimore suggests to me that you have done an absolutely outstanding job and that you have even better plans for the future. As a Maryland resident now of two years standing, I have a much more personal interest in the fate of the state's largest city and will indeed look forward to an opportunity to work with you and Don Langenberg to bring some of these great plans to further fruition.

It was most thoughtful of you to provide me with the memento of the occasion and not only is it beautiful, but it is something that I shall treasure.

Again, my thanks. With warmest regards and all best wishes for every success in the ambitious programs that you have laid out for yourself and for the City of Baltimore.

Sincerely yours,



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

The Honorable Kurt L. Schmoke
Mayor
City of Baltimore
250 City Hall
Baltimore, Maryland 21202

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9122379

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

FROM: MULLER, Berndt: DUKE UNIVERSITY

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/16/91

SUBJECT: A COPY OF "NUCLEAR PHYSICS AT EXTREME ENERGY
DENSITY, A PROGRESS REPORT".

DIRECTORATE
ASSIGNED:

STAFF
ASSIGNED:

ACTION
REQUIRED:

STAFF
ACTION:

SENDER'S DUE DATE:

OSTP DUE DATE:

STAFF DUE DATE

DATE COMPLETED: 6/24/91

DATE COMPLETED/DEPT:

COPIES TO: D. Allan Bromley

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE:

EXT:

REMARKS:

CLOSED

OSTP RECEIVED: 07/18/91
DEPT RECEIVED:

FILE: P-DAB-PERSONAL

237A

Duke University

DURHAM
NORTH CAROLINA
27706

RECEIVED

31 JUL 10 P 5: 57

TELEPHONE 919-684-8210

OFFICE OF THE
DIRECTOR

DEPARTMENT OF PHYSICS

July 16, 1991

Professor D. Allan Bromley
The White House
Washington D.C. 20500

Dear Allan,

Upon my return from a trip back to Germany I found your kind note concerning our publication on "Quark Gluon Plasma Signatures?" in Physical Review. I marvel at how you still find time for such things, and I thank you. May I note that I have just been invited to present a paper on this issue at this year's Quark Matter meeting.

Please, find enclosed a copy of our first Progress Report that has been recently presented to DOE. We feel quite pleased to be able to demonstrate the presence of an active nuclear theory group at Duke after a little over one year. I feel very much at home here, and am glad to have been offered this opportunity. The support from the department and everybody involved, including DOE, could not have been better.

I would like to take the opportunity to wish you continued success in Washington. The science community really appreciates your efforts, from all I hear.

Sincerely yours,



Berndt Müller

BM/jc
enclosure

THE WHITE HOUSE
WASHINGTON

July 24, 1991

Dear Berndt:

Many thanks for sending me a copy of your first progress report entitled **Nuclear Physics at Extreme Energy Density**. It is clear from this document that you have already established a strong and imaginative program at Duke as I was fully certain you would. My only regret is that it was not possible to work out the arrangement that would have brought you jointly to Brookhaven and to Yale.

When you find yourself in the Washington area please give me a call because I would welcome the opportunity to see you.

With warmest best wishes,

Sincerely yours,



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

Professor Berndt Muller
Department of Physics
Duke University
Durham, North Carolina 27706

Withdrawal/Redaction Sheet

(George Bush Library)

Document No. and Type	Subject/Title of Document	Date	Restriction	Class.
01. Report	Progress Report: Nuclear Physics at Extreme Energy Density (55 pp.)	5/15/91	(b)(1)	

Collection:

Record Group: Bush Presidential Records
Office: Science and Technology Policy, Office of (OSTP)
Series: Bromley, D. Allan, Files
Subseries: Personal Files
WHORM Cat.:
File Location: D. Allan Bromley - Personal [4 of 8] [1991]

Date Closed:	3/8/2010	OA/ID Number:	62028-004
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

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9123101

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

FROM: MINGAY, Don: ATOMIC ENERGY CORPORATION OF SOUTH AFRICA LIMITED

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/15/91

SUBJECT: A THANK YOU FOR MEETING WITH HIM.

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: 07/31/91
DEPT RECEIVED:

FILE: P-DAB-PERSONAL



RECEIVED

91 JUL 31 AM 10:13

TEL. No. : (012) 316-5853
FAX No. : (012) 316-5925
DATE : 1991-07-15

OFFICE OF THE
DIRECTOR

Prof D Allan Bromley
Scientific Advisor to the President
Office of Science and Technology Policy
White House
WASHINGTON D.C.
USA

Dear Allan,

I have settled back in to the fast unfolding environment out here after what was a most productive and enjoyable two weeks in the USA. Both conferences were informative and enjoyable for totally different reasons, but the highlight was undoubtedly the opportunity to visit and chat with you again. Unfortunately, there are so many things to talk about that I reflect on the fact that I touched on but a few that I promised myself would be mentioned. However, there were replacement topics which, in retrospect, are of really far more consequence than the cut and thrust of the work environment. My thanks for one family commitment reflection in particular which I recognise and will try to act on and implement more significantly than in the past.

Sanctions are, as you clearly stated would be, a thing of the past. We now in S A have to tackle the next stage which has opened up and includes getting our show pro-actively under way and handle innumerable sets of State legislature and Corporate Policy restrictions on trade and interaction which still hinder. This is essential if we are to have any chance whatsoever of getting this show on the road, let alone off the ground! I detect a slightly changing shift in Africa itself as a whole, where everything used to be blamed on "Colonial oppression and mismanagement" to where just a small concept is being born that perhaps the African self has some responsibility for shortcomings in achievement. Mirabile Dictu!!! There is also a tremendous rift growing in the ANC as they are actually seen to be somewhat lost politically. It was fine when in opposition and policies could simply be criticised. They are now having trouble in coming up with constructive alternatives and so are now trying to remain as a freedom fighting party without entering the political arena officially. I feel that they are losing ground. My concern is that the major loss component will drift to the left rather than to the Government with the Pan African Congress espousing some rather powerful propaganda. There is a very uneasy lying in bed of the ANC and Communist Party, the former needing the latter sufficiently to have to entertain them, the latter smiling all the way as they obtain a free ride. Through all this I maintain a trust (and this I do not underestimate as Africa can easily simply be written off) in the role that President Bush is playing as he seems to have a solid understanding of the situation, and what is even more vital, is acting in a very constructive and supportive way. This, coupled with British (Major) and German (Kohl) similar understanding means to me

that there is a concerned and involved group "out there in the big world" for whom the future of sub-Saharan Africa is not without external moderation for it is an un-moderated future out here that I fear. This is a topic that could occupy pages and pages! Not my original intention.

Simply put Many sincere thanks for a splendid lunch, a most treasured set of unique cuff-links which I guard most jealously, but most of all for the incredibly warm reception and supportive words and time that you provided. This is all very special and much appreciated. Ann, Caryl and Mike join in sending you our very best wishes.

Sincerely

A handwritten signature in dark ink, appearing to read 'Don', with a long horizontal stroke extending to the right.

Don Mingay.

Please remember me to Marian and pass on my thanks for her help with arrangements and "allowing me in". I know how protective secretaries can be and I am sure that she provides you with even more than a "Patriotic" early warning defence mechanism.

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION DOCUMENT NUMBER: 9122302
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS

FROM: GOLDEN, William T.: CARNEGIE COMMISSION

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/15/91

SUBJECT: RE: RECEIPT OF DR. BROMLEY'S LETTER OF JULY 9, 1991.

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: 07/17/91 FILE: P-DAB-PERSONAL
DEPT RECEIVED:

40 WALL STREET
NEW YORK, N. Y. 10005

2302
RECEIVED

91 JUL 17 P5:39

July 15, 1991

OFFICE OF THE
DIRECTOR

Dear Allan:

Your protein-packed letter of July 9th reached me this morning, just as I am about to leave for a week in London. My trip there is primarily for meetings related to the British Library, but I will be seeing a number of people on other matters as well. This includes Bill Stewart, with whom I will discuss appropriate excerpts of your letter, along with Fred Dainton, an old and very good friend who is also involved in the British Library meetings.

This catches me literally as I am about to leave, so I have only skimmed your letter. I'm taking a copy with me for careful reading, and I will be in touch with you promptly after my return on July 22nd.

With warm regards,

Sincerely,

Bill

William T. Golden

WTK

Dr. D. Allan Bromley
Assistant to the President
for Science and Technology
Old Executive Office Building
Suite 358
Washington, DC 20506

[Dictated by Mr. Golden; signed
and mailed in his absence.]

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION/INVITATION DOCUMENT NUMBER: 9122301
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS

FROM: MCCORMICK BLAIR, Deeda

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/13/91

SUBJECT: A THANK YOU FOR SENDING THE DECADE OF THE BRAIN
REPORT AND AN INVITATION TO MEET AROUND THE LAST 2
WEEKS IN AUGUST.

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: 07/17/91 FILE: P-DAB-PERSONAL
DEPT RECEIVED:

2301
2510 FOXHALL ROAD
WASHINGTON, D.C. 20007

RECEIVED

91 JUL 17 P 5:39
July 13, 1991

OFFICE OF THE
DIRECTOR

Dr. D. Allan Bromley
Assistant to the President
for Science and Technology
Old Executive Office Building
17th and Pennsylvania Avenue
Washington, DC 20500

Dear Allan,

Ever so many thank yous for your wonderful letter. I was so delighted to receive the report "Maximizing Human Potential". It was as if we had been on the same wave length. I had heard about the report and yesterday I had tried at the Neurology Institute and had thus far failed to track it down. Then it came in the mail today from you! I think it is a superb document. Everything about it is excellent. Most important, the quality of the writing is clear and the selection of photographs could not be improved upon.

I knew Sylvia Conte quite well as he was a great friend of Mary Lasker's and he has been to a number of dinners here. He was always so helpful. So it is really great when such an excellent document is dedicated to him.

STAFF LINED

I was sorry that you couldn't come to the dinner for Bernadine. I think it went quite well, although it grew a little larger than I had originally planned. We finally sat down fifty-eight people! So it was not exactly intimate, but it was a good mixture of people and I was thrilled to have the chance to meet your Dr. Henderson (DA), who is outstanding. I had been present at a Dana Foundation award ceremony when he had been given their award for the eradication of small pox. I have often brooded about it since we had given the Lasker Award several years before for the eradication of small pox, but we gave it to Dr. Mahler who was then General Director of WHO. I think we would have been so much wiser if we had given it to Dr. Henderson who really had everything to do with it.

We were as I said a great mixture, with quite a few people from the pharmaceutical industry, and as could be expected, quite a number of scientists, science writers and congressman. There were a few people who really impressed me enormously like Dr. Kessler, the head of the FDA. I sat next to him, and I must say one has the distinct impression of a man with a mission. I had a very definite impression that he is one of those very gifted strategic thinkers. Another real star is Olympia Snow, who is on the aging committee and I think she could be a great help to Bernadine as she is full of admiration. However, anyone who has encountered Bernadine in the last months who has not known her before, is absolutely dazzled and there is such enthusiasm on the campus.

In regard to Florence Mahoney, we are going to have dinner with her tonight, but this is the first time Bill and I have seen her, though she has been home nearly a month. We have asked her a number of times but I sense perhaps she is a little more fragile than last summer. She must use a walker or wheelchair - so she is not going out as much as in the past. I mentioned to her that we had lunch, and that you wanted to get together with Bernadine and she was delighted at the idea. I am sure that she would like to be invited to the executive dining room. I think that somehow a wheelchair over those five steps could be managed. Otherwise when you invite her, she will just turn it around and say, oh come to her house. She did say that she wanted to talk to you seriously. I have the impression she is working just as hard as ever and I must say she does it with such charm. One of her current projects however, which has been on her mind for the past two years and now she seems more determined than ever is to introduce legislation that people would have to have a license to have a baby!!!

I leave for Europe this Wednesday for an osteoporosis meeting in Venice and then I will be in Paris for a few days as I have a planning session for a cancer and AIDS meeting that will take place in March 1992. Although I return to the United States on the 30th, I really won't be back in Washington much before the 14th of August as I have got to be at Harvard and in New York the first two weeks of August.

Then I will be in Washington the last two weeks of August and then I am off on vacation for the first three weeks of September.

If you are around those last two weeks of August, let's try to get together. Perhaps you could come here for a tiny dinner with Bernadine and I might try to get Congressman Dingle who told me he would very much like to get to know Dr. Healy.

With all best wishes,

Deeda

Mrs. William McCormick Blair, Jr.

Florence was in great form
at dinner Saturday — On a sad
note you may — Margaret & John
Robson's son Mathieu died
in San Francisco.

THE WHITE HOUSE
WASHINGTON

July 24, 1991

Dear Deeda:

Many thanks for your letter of July 13th which arrived while I was in Puerto Rico organizing a Western Hemisphere Environmental Research Institute.

I was delighted to hear your good comments about my colleague D.A. Henderson, but I too was very much disappointed that I was unable to join you for the dinner in Bernadine's honor, both because I know that I would have enjoyed your warm hospitality, and because I have a very special affection and respect for Bernadine. As you know, unfortunately I was committed to the keynote address in the inauguration of Donald Langenberg as Chancellor of the University of Maryland System.

From all reports which I have heard, it was a spectacular dinner and Bernadine was both honored and delighted.

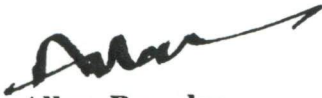
I have been talking with Florence Mahoney and your prediction was precisely accurate. What I originally did was to invite her with the hope of having her join you, Bernadine, and me at the White House for lunch, but given her somewhat frail condition, she instead insisted that it would be difficult for her to negotiate the stairs into the Mess and that she would prefer instead to organize a dinner at her home. This she is doing and I am told that she will be in touch with me in the near future. She seems still remarkably interested and involved and is truly a great lady.

Unfortunately, it looks as though our schedules are exactly out of phase for August because I will be here through the month leaving on the 16th to spend the remaining two weeks with my family at our home in Northern Canada. I very much hope that your meetings in Venice and in Paris will be very pleasant ones indeed. We will just miss the possibility of crossing in Paris by a week since I expect to be there for a few days during the first week in August just after you have left.

You mention a brief dinner with Bernadine and Congressman Dingle during the latter two weeks of August; unfortunately I will be away at that time but would be absolutely delighted to join you at some later time if that should turn out to be possible.

In the meantime, let me wish you the happiest and most productive of remaining summer weeks.

Sincerely yours,

A handwritten signature in dark ink, appearing to read 'D. Bromley', with a long, sweeping horizontal stroke extending to the right.

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

Mrs. William McCormick Blair, Jr.
2510 Foxhall Road
Washington, D.C. 20007

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION DOCUMENT NUMBER: 9122299
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS

FROM: BREWER, Garry D.: YALE SCHOOL OF ORGANIZATION AND MANAGEMENT

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/12/91

SUBJECT: HE HAS TAKEN ON THE POSITION OF DEAN OF THE SCHOOL
OF NATURAL RESOURCES AT THE UNIVERSITY OF MICHIGAN.

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: 07/17/91 FILE: P-DAB-PERSONAL
DEPT RECEIVED:

2299

Yale School of Organization and Management

Box 1A New Haven Connecticut 06520

203-432-5977 Office

203-432-5942 Fax

91 JUL 17 P 2:44



Garry D. Brewer
Edwin Weyerhaeuser Davis
Professor of Resource Policy

OFFICE OF THE
DIRECTOR

July 12, 1991

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

Dear Allan,

I am moving on to become the Dean of the School of Natural Resources at the University of Michigan. They made me an offer I couldn't refuse. After one more vote from their Board of Regents in a couple of weeks, to approve the final terms the provost and I negotiated, it will be completely and officially done.

I had not realized how uncivilized New Haven had become until I started trying to visualize us living in Ann Arbor. The contrast is stunning. I don't know if I told you, but Chris Prince, the Yale sophomore who was gunned down on Hillhouse in late February, was in my college (Pierson) and was also the younger brother of Jackie Prince, a dear friend and former student who did both her management and environmental studies masters degrees with me. The memorial service was impossibly difficult, and I decided right then it was time to get out of New Haven.

About a week after Chris' memorial, the Michigan folks called wanting to know if I would be interested in the job. I spent three days there in mid-April, returned in late May, and then again on June 13 to interview with the regents. They voted on the four finalists, and I got the offer two weeks ago. It took about ten minutes to calm down enough to call them back to begin discussing terms. Everything was settled yesterday, and I'm as energized as can be.

They want me to start September 1, and part of the negotiation was to give us time to settle in. I won't be the real dean until January 1. There is a solid acting dean in place who is willing to mind the store and break me in over the fall term. Matthew will be entering middle school, grades 6-7-8, and a September start for him is imperative. So we're off to Ann Arbor in about a week to start looking for a place to live.

I have a 20-year investment in Yale, counting four years as a graduate student and 16 as faculty. Leaving evokes lots of different feelings, not the least of which is sadness for the separation from many good colleagues. It is, however, time to move on.

Cordially,
Garry

THE WHITE HOUSE

WASHINGTON

July 31, 1991

Dear Gary:

I am somewhat torn by your news that you are heading off to become Dean of the School of Natural Resources at the University of Michigan. On the positive side, I know that you will do a superb job, as always, and the University of Michigan is a very distinguished one that I know quite well. On the negative side, you will be greatly missed at Yale.

I reluctantly must agree with you that the general atmosphere in New Haven is deteriorating and deteriorating rapidly. I notice this perhaps most because I only come to the city now at several month intervals and during those intervals the decay is very evident. I also have the additional indicator of an attractive home that I have been trying to sell now for over two years and despite the fact that there have been many interested potential buyers, none of them have been able to obtain mortgage support and since I am not in a philanthropic mood, I have the dubious pleasure of supporting a home in New Haven as well as one in Bethesda. This does beat the hell out of my exchequer, as I am sure you can recognize.

I recognize also what a traumatic summer this must have been for you because making a move of the sort upon which you have decided is one of the most difficult things that we academics can possibly undergo. I hope that the Michigan people are doing everything possible to make it as painless as they can.

As a 30 year veteran of Yale and New Haven, I very much appreciate your feelings but let me only wish you every success and happiness in the new position at Michigan. As I said above, I know that you will do a superb job and I will always feel free to call on you for help and advice.

With warmest best wishes and warmest congratulations,

Sincerely yours,



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

Professor Gary D. Brewer
Yale School of Organization and Management
Box 1A
New Haven, Connecticut 06520

"CORRESPONDENCE TRACKING"

TYPE: INFORMATION

DOCUMENT NUMBER: 9121993

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

FROM: BASHAW, Matthew C.: STANFORD UNIVERSITY

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE:

SUBJECT: COPIES OF TWO MANUSCRIPTS; AN EDITORIAL ON LONG-TERM
POSITIONING AND HIS PhD DISSERTATION ON THE TOPIC OF
PHOTOREFRACTIVE MATERIALS.

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

WHITE HOUSE TRACKING #:

CONTACT PERSON:

REMARKS:

PHONE:

EXT:

CLOSED

OSTP RECEIVED: 07/08/91
DEPT RECEIVED:

FILE: *P-443 personal*
~~BROMLEY CORRESPONDENCE~~



1993
RECEIVED
STANFORD UNIVERSITY, STANFORD, CALIFORNIA 94305-4035
DEPARTMENT OF AERONAUTICS AND ASTRONAUTICS

Tel.: 415 723-0470

91 JUL 8 AM 11:57 FAX: 415 725-3377

TELEPHONE (415) 723-3317

July 2, 1991

OFFICE OF THE
DIRECTOR

WILLIAM F. DURAND BUILDING

Prof. D. Allan Bromley
Assistant to the President for Science and Technology and
Director of the Office of Science and Technology Policy
The White House
Washington, District of Columbia 20506

Dear Prof. Bromley,

I am now more or less settled at Stanford (in academia, one is never truly settled), and my wife Kerin has recently been discharged from the Army and is now in northern California.

I have enclosed two manuscripts which may be of interest to you. I have very recently submitted the editorial on long-term positioning to the *New York Times* for their consideration; if unsuccessful there, I would next submit it to one of the Bay Area newspapers. One of my reviewers has been Mr. Patrick Ennis, of the Yale Department of Physics, who has been very helpful in providing feedback while I wrote the essay.

The other is a copy of my Ph.D. dissertation, which has been on the topic of photorefractive materials. As I mentioned in my February 15 letter to you, I am continuing research on photorefractive materials, working with Prof. Lambertus Hesselink to study their properties and device potential. I understand that the Department of Commerce has taken a direct interest in this technology, through the award of an ATP grant to MCC for the development of a prototype of a holographic memory device based on photorefractive materials.

I hope all is going well with you in the District. I get the sense that the pace has picked up in the last year, and am very happy to see the fruits of your initiatives, such as the ATP program, begin to materialize.

Wishing you a good summer,

Very truly yours,

Matthew C. Bashaw

A Cry for Long Term Positioning

Matthew C. Bashaw

Stanford University

July 1, 1991

The other evening I had a conversation with a colleague of mine, a sales director for a high-tech firm in Silicon Valley, which echoed many such conversations I have had with many involved in industry and technology. It began with the question "Why do attorneys get paid more than engineers?" My colleague asserted that because we have a free market economy, the answer is obviously that attorneys contribute more to the economy, per person, than engineers.

I had the task of trying to persuade him that a few flaws exist with this reasoning and began by proposing that there is a misperception in the market place of the contribution of engineers to the economy, a misperception centering on the current trend to favor short-term investment over long-term investment. The engineer makes long-term contributions to the vitality of his or her company that are not properly encoded into its net present value; this contribution is in the form of intellectual capital, and manifests itself in several ways.

First is the obvious generation of patents. Thorough patents allow a company exclusive manufacture of a product for a period of time, or the capability to license its technology for fee. But engineers make additional, more subtle contributions to the value of a company. Viable technology is more than a collection of patents and machinery; it consists of the dynamics of active, capable engineers putting patents and machinery to use. A successful engineer does not simply address individual tasks; he or she also contributes to the engineering tradition that enables a company not only to produce but also to innovate. It is this chemistry of innovation that a firm's engineering staff needs in order to develop new ideas, processes, and products that permit it to compete in today's ever changing marketplace.

I have the highest regard for those dedicated to the public and fiduciary responsibilities of legal service and sincerely believe that they be fairly compensated for their service. I contend, however, that selected attorneys, accountants, bankers, and other financial advisors

reap enormous financial benefits through a system that overvalues their contributions. The instrument of choice used by today's wealthiest attorneys and financiers is the contingency fee, which, for the most part, involves the transfer of funds from one party to another instead of the formation of new capital and the production of goods and services. This contingency fee makes little contribution to long-term viability.

"If this account is true," my colleague asks, "can 250 million people be wrong?" If they are right, then I can find 120 million on the other side of the Pacific who are wrong. In Japan, attorneys are not allowed to collect contingency fees – by law. This is true in most nations. Consequently, the number of attorneys in Japan is far fewer per capita than in the U. S. Also in Japan is a far greater appreciation for long-term planning. Japan's MITI has been sponsoring research and development designed to promote market technologies for years. And the spirit of long-term planning extends to individual companies as well; it took Sony 10 years to establish itself in the U. S. before it began operating at an acceptable profit.

The attorney-engineer comparison is but one of many symptoms of the decline of long-term positioning. I hear from other managers of high-tech firms, almost always within the same conversation, that their company had just furloughed a good number of its employees, and yet it is experiencing difficulty obtaining loyal workers; gone are the days of healthy, long-term relationships between firms and their employees. In another arena, I hear countless tales of difficulties that faculty at our best universities face in obtaining funding for long-term research projects. The examples are endless.

Nevertheless, the signs are that attitudes are changing: A recent study by Salomon Brothers shows that securities markets are less risky over the long-term, and the firm has established mutual funds tailored to long-term investors. Research conducted by Prof. Edward Mansfield of the University of Pennsylvania indicates that in the United States basic research produces as much as a one-quarter return on investment, but cautions that success of individual projects varies considerably. Congress and the Administration are successfully cooperating to support initiatives such as the Department of Commerce's Advanced Technology Program, which funds the development of generic technologies to promote the

efficient introduction of key enabling technologies into the marketplace. And works such as *The Litigation Explosion* by Mr. Walter Olson raise the notion that perhaps contingency fees have become obsolete in this nation as well. But this is just a beginning.

Government, firms, and individuals can do much to help restore long-term positioning in American industry. For example, the federal government could expand its programs to fund basic research, which tends to benefit society as a whole and not any one interest; in this process it should seek the advice of peer review panels in order to ensure that political interests do not eclipse sound judgement.

The federal government could strengthen its tax position on research and development initiatives aimed at creating new products and services. It could institute a progressive capital gains tax break, which would be greater for individuals holding onto their securities for a longer period of time; this would help shift emphasis from quarterly profits to long-range vitality. The federal government could also introduce tax breaks for firms that foster some degree of employee ownership, which would help re-establish the loyalty and dedication once enjoyed by firms and employees. And it could limit contingency fees of all sorts to reasonable compensation for public, fiduciary, and legal services.

Firms could alter their way of doing business as well. Engineers tend to be very far from the source of major financial decisions. The trend today is to eliminate layers of middle management, and this will help alleviate the problem to some degree. But engineers need to be brought within the center circles of decision making.

One solution is to draft engineers into top management, but this by itself is not sufficient because it would tend to drain the best engineers. Another is to sponsor a dual ladder, in which some of the top engineers move into senior advisory positions, keeping in contact with the top management and the other engineers, and others move into top management. Still another is to restructure internal funding so that ideas have an equal chance of coming from the bottom up as well as the top down.

Individuals can contribute to the process as well, by keeping themselves continually in-

formed and educated, not only to be better able to adapt to different tasks within a firm, but also to know when best to seek opportunities outside their present firm. And they can contribute at the polls, by voting for political candidates who are committed to the restoration of long-term positioning.

America's most valuable resource is its intellectual capital. We as a nation must rediscover a better sense of the value of long-term investment in our know-how for the formation of capital and the production of useful goods and services, so that American industry will once again stand tall as an unquestioned leader of innovation. To do otherwise not only invites a continued decline in America's industry and its standard of living, but also threatens to compromise the American way of life as we increasingly rely on foreign production of goods and services.

Experimental and Theoretical Investigations of
Dynamic Holography in Photorefractive
Bismuth Silicon Oxide

Matthew C. Bashaw

Yale University

May 1991

"CORRESPONDENCE TRACKING"

TYPE: Information

DOCUMENT NUMBER: 9121966

ORIGINATOR: 02

STATUS C

DIRECTORATE STATUS

FROM: BROZ, DR. Joseph S.: 1991-1992 WHITE HOUSE FELLOW

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/02/91

SUBJECT: DR. BROZ ACCEPTS DR. BROMLEY'S OFFER TO BECOME DR.
BROMLEY'S SPECIAL ASSISTANT AND LOOKS FORWARD TO
FINALIZING ARRANGEMENTS FOR A SEPTEMBER 3, 1991
STARTING DATE.

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
ADMINISTRATION

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE:

EXT:

REMARKS:

CLOSED

OSTP RECEIVED: 07/03/91
DEPT RECEIVED:

FILE: BROMLEY CORRESPONDENCE



INSTITUTE FOR PURE AND
APPLIED PHYSICAL SCIENCES, 0075

9500 GILMAN DRIVE
LA JOLLA, CALIFORNIA 92093-0075

DIRECTOR
H. SUHL

ASSOCIATE DIRECTORS
G. ARRHENIUS
S.C. LIN

July 2, 1991

Dr. D. Allan Bromley
Science Advisor to the President
Director of the Office of Science
and Technology Policy
The White House
Washington D.C. 20500

Dear Dr. Bromley:

Pursuant to our meeting of June 20, I am deeply honored to accept your generous offer to become your Special Assistant. In view of my background and strong interest in the functions performed by the OSTP, I feel that this assignment will allow me to make a positive contribution to the country while at the same time greatly expanding my knowledge of governmental processes at the highest level.

I sincerely thank you for this most exciting opportunity and look forward to finalizing my arrangements with your office for a September 3, 1991 starting date. With sincere regards, I remain,

Very truly yours,

Dr. Joseph S. Broz
1991-1992 White House Fellow

JSB/jc