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

OA/ID Number: 62045
Folder ID Number: 62045-013

Folder Title:
Superconducting Super Collider: Domestic [1992]

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

TYPE: ACTION
ORIGINATOR: 02

DOCUMENT NUMBER: 9202924
DIRECTORATE STATUS

STATUS I

FROM: KELLY, Francis J.: THE CATHOLIC ASSOCIATION OF SCIENTISTS AND ENGINEERS

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 09/19/92

SUBJECT: HE IS WRITING REGARDING AN INTERVIEW DR. BROMLEY HAD WITH THE NAVAL RESEARCH REVIEW WHERE HE COMPARED THE SSC TO THE CATHEDRALS OF THE ROMAN CATHOLIC CHURCH.

DIRECTORATE
ASSIGNED: PHYSICAL SCIENCES

STAFF
ASSIGNED: *Mr. Kingston*

ACTION
REQUIRED: AS NECESSARY

STAFF
ACTION:

OSTP DUE DATE: 10/12/92
DATE COMPLETED:

SENDER'S DUE DATE:
STAFF DUE DATE
DATE COMPLETED/DEPT: *10/27/92*

COPIES TO: D. Allan Bromley
Steve Olson

WHITE HOUSE TRACKING #:

CONTACT PERSON:
PHONE:

EXT:

REMARKS: *Mr. Kingston requested.*

OSTP RECEIVED: 09/28/92
FILE: P-PHYSICAL SCIENCES

DEPT RECEIVED:

CENTRAL FILES:

SSC - Technical

DR. FRANCIS J. KELLY
8308 RAMBLER DRIVE
ADELPHI, MARYLAND U.S.A. 20783

DATE: 12-17-77
(4126) 7-7-244

Dr. Allen Brondse
Assistant to the President for Science and Technology
Director of the Office of Science and Technology Policy
Executive Office of the President
Washington, DC

Dear Sir:

In your recent interview (1991) in the Naval Research Review, you compared the Superconducting Supercollider to the beautiful and inspiring cathedrals of the Roman Catholic Church. Such a comparison is highly inaccurate and misleading. It indicates that you do not understand the place of Jesus Christ, the Son of God and the King of Kings. A cathedral is a beautiful house made for Jesus, who inhabits the cathedral in His body and soul under the appearance of the Holy Eucharistic Host. Jesus invites us to visit Him at His house and gives us His flesh to eat and His blood to drink. While there we listen to inspiring preaching and hymns and participate in the sacrifice that He made at His Crucifixion.

The SSC is just a long tunnel which will be highly magnetized and crammed with electronics. Few will visit. If you think that the SSC will become some sort of religious shrine, you can check out your ideas by taking a walk around the LEP ring at CERN. I'm sure that all you will get are sore feet.

In contrast, I will gladly take you on a tour of the National Basilica Shrine of the Immaculate Conception on Michigan Avenue in Washington, D.C.

Sincerely yours,

Dr. Francis J. Kelly

Dr. Francis J. Kelly
Chief Scientist, Our Lady of Fatima Section (#1)
The Catholic Association of Scientists and Engineers

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

October 26, 1992

Dear Dr. Kelly:

While being interviewed for the Naval Research Review, Dr. Bromley wished to convey that the community spirit and intellectual achievement engendered by a large national project such as the Superconducting Super Collider is a reflection on the abilities of society to accomplish great things. He compared that endeavor to the building of cathedrals which also involves a strong common effort.

Dr. Bromley did not intend to imply that the SSC will be inspirational in the same sense as cathedrals or to compare science and religion. Please accept our apologies for any offense taken by this analogy.

Sincerely,



Marguerite J. Kingston
Policy Analyst

Dr. Francis J. Kelly
Chief Scientist, Our Lady of Fatima Section
The Catholic Association of Scientists
and Engineers
8308 Rambler Drive
Adelphi, MD 20783

SSC file

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slip
available) 7862
~~920544~~

Columbia University in the City of New York | New York, N.Y. 10027

ACTUARY'S

DEPARTMENT OF PHYSICS

538 West 120th Street

00 JUN 26 410:48

June 25, 1992

MAIL ROOM

Dr. D. Allan Bromley
Science Advisor to the President
Old Executive Office Building, Room 360
17th and Pennsylvania Avenue, N.W.
Washington, D.C. 20506

Dear Dr. Bromley:

We the undersigned members of the scientific community are shocked and dismayed by the House rejection of funding for the Superconducting Super Collider. We are deeply alarmed by its immediate destructive effect on the entire U.S. scientific enterprise and even more concerned about the serious long-term damaging consequences of this action.

The approval of the SSC project in 1990 was widely acclaimed as our nation's firm commitment to be a leader in this scientific age. It has galvanized many foreign countries to follow us and collaborate on this unique common effort. It has also inspired our younger generation to be optimistic about their future in science and technology.

The construction of the SSC is at the cutting edge of advanced technology and industrial capability. It will generate a large number of jobs and will greatly enrich the nation's technological strength through training, research and manufacture.

At present, the scientific goals of the SSC are even more relevant and compelling than a few years ago. Furthermore, the SSC project has already made important scientific and technological progress in the design and development of the accelerator and detectors. At many international conferences, the initial achievements of the SSC project have been recognized as the symbol of our great strides forward in science and technology. This sudden rejection stuns and confuses. To kill an undertaking that is so splendidly fulfilling its expectations and its mission raises

fundamental questions about our national commitment and our ability to carry out long-term scientific projects. Such an action is clearly damaging to future international collaboration on our scientific ventures.

We are painfully aware of the need to bring the budget deficit under control. However, in this world of very rapid change where confidence in any country can be quickly eroded, it is essential for our nation to steadfastly preserve and expand its scientific and technological strength.

The SSC is an investment for the future in science, technology and people. We therefore urge you continue your strong support for this important project.

Sincerely,

(The signatures of the following are on file.)

- Sidney Altman, Yale University
(Nobel Prize in Chemistry, 1989)
- Hans A. Bethe, Cornell University
(Nobel Prize in Physics, 1967)
- James W. Cronin, University of Chicago
(Nobel Prize in Physics, 1980)
- Hans G. Dehmelt, University of Washington
(Nobel Prize in Physics, 1989)
- Herman Feshbach, Massachusetts Institute of Technology
(National Medal of Science, 1986)
- Val L. Fitch, Princeton University
(Nobel Prize in Physics, 1980)
- Herbert Friedman, Naval Research Laboratory
(National Medal of Science, 1967; Wolf Prize, 1987)
- Jerome I. Friedman, Massachusetts Institute of Technology
(Nobel Prize in Physics, 1990)
- Sheldon L. Glashow, Harvard University
(Nobel Prize in Physics, 1979)
- Marvin L. Goldberger, University of California, Los Angeles
(President Emeritus, California Institute of Technology)
- Ernest M. Henley, University of Washington
(President, American Physical Society)
- Dudley R. Herschbach, Harvard University
(Nobel Prize in Chemistry, 1986)

- Henry W. Kendall, Massachusetts Institute of Technology
(Nobel Prize in Physics, 1990)
- T. D. Lee, Columbia University
(Nobel Prize in Physics, 1957)
- Leon M. Lederman, University of Chicago
(Nobel Prize in Physics, 1988)
- Boyce D. McDaniel, Cornell University
(Director Emeritus, Laboratory of Nuclear Studies)
- Joseph E. Murray, Harvard University
(Nobel Prize in Medicine, 1990)
- W. K. H. Panofsky, Stanford Linear Accelerator Center
(Director Emeritus, SLAC; National Medal of Science, 1969)
- Norman F. Ramsey, Harvard University
(Nobel Prize in Physics, 1989)
- Burton Richter, Stanford Linear Accelerator Center
(Nobel Prize in Physics, 1976)
- Nicholas P. Samios, Brookhaven National Laboratory
(Director, BNL)
- James A. Van Allen, Iowa State University
(National Medal of Science, 1987)
- Steven Weinberg, University of Texas, Austin
(Nobel Prize in Physics, 1979)
- Victor Weisskopf, Massachusetts Institute of Technology
(Director Emeritus, CERN; National Medal of Science, 1979;
Wolf Prize, 1981)
- Robert R. Wilson, Cornell University
(Director Emeritus, FNAL; National Medal of Science, 1973)

(Additional signatures are being received and will be included in a later mailing.)

THE WHITE HOUSE
WASHINGTON

July 13, 1992

Gentlemen:

Thank you for your letter supporting the Administration's request for funding for the Superconducting Super Collider. I fully agree that the SSC project has the highest scientific merit, and I can assure you the President supports the project enthusiastically. I know the President had the opportunity to express his support to many of you when you met with him just a few days ago in the White House. Be assured that all of us in the Administration are working to convince the Senate to fully fund the SSC.

I should tell you that I was dismayed to observe that the Illinois delegation voted en bloc to oppose the SSC in the House of Representatives. Clearly we all have to work hard to convince our local representatives that this project is essential and merits their support.

It is bitterly ironic that when the House of Representatives deleted the SSC from the Appropriations bill, the associated funds were not returned to science. This, perhaps more than all the words we have uttered in the past, will serve to convince the science community that it does not accomplish anyone's objective to criticize another science project. I hope that the damage can be contained and reversed.

Thank you again for your expression of support.

Sincerely yours,



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

Dr. T.D. Lee
Department of Physics
Columbia University in
the City of New York
New York, NY 10027

STAFFING SHEET

EXTERNAL COORDINATION:_____

		COMMENTS	DATE
✓	DIRECTOR		
	GENERAL COUNSEL		
✓	EXEC. ASST.		

ACTION REQUESTED:

[illegible]

"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9202545
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS C

FROM: LEE, T.D.: COLUMBIA UNIVERSITY

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/15/92

SUBJECT: HE IS WRITING EXPRESSING HIS VIEWS ON THE FUNDING OF
THE SSC.

DIRECTORATE STAFF
ASSIGNED: PHYSICAL SCIENCES ASSIGNED:

ACTION STAFF
REQUIRED: AS APPROPRIATE ACTION:

SENDER'S DUE DATE:
OSTP DUE DATE: 08/04/92 STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT: 07/13/92 7/31

COPIES TO: D. Allan Bromley

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

REMARKS: Dr. Erb drafted letter for DAB's signature. on 6/25 letter
no need to respond to this, per DAB

OSTP RECEIVED: 07/20/92 DEPT RECEIVED:
FILE: P-PHYSICAL SCIENCES

CENTRAL FILES:

"Document Control"

TYPE: PRESIDENTIAL PRIORITY DOCUMENT NUMBER: 9201184
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS

FROM: POLLACE, Norman

TO: DR. D.A. BROMLEY

APR 8 1992

DATE OF
CORRESPONDENCE: 02/20/92

SUBJECT: HE IS WRITING TO PRESIDENT BUSH TO EXPRESS HIS VIEWS
ON THE SSC.

DIRECTORATE STAFF
ASSIGNED: PHYSICAL SCIENCES ASSIGNED: *Lee Schnoddy*
Direct reply
KAE

ACTION
REQUIRED: ~~FOR DAB'S SIGNATURE~~ STAFF
ACTION:

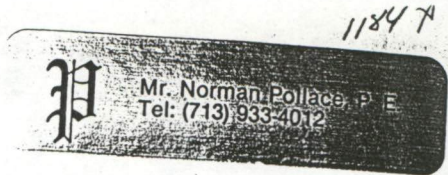
SENDER'S DUE DATE:
OSTP DUE DATE: 04/14/92 STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT:

COPIES TO: D. Allan Bromley

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

OSTP RECEIVED: 04/07/92 DEPT RECEIVED:
FILE: P-EOP-PRESIDENTIAL PRIORITY
CENTRAL FILES:

OSTP



February 20, 1992

RECEIVED

92 APR 7 P 3:25

The White House Office
1600 Pennsylvania Avenue
Washington, D.C. 20500

MAIL ROOM

SUBJECT: Cancellation of the S.S.C.

Dear President Bush:

This will be your year of infamy if you fail to stop the funding and construction of the Superconducting Super Collider that is to start in March 1992 in Texas. The S.S.C. will be the greatest hoax perpetuated on the nation ever... a \$16 billion hoax... which America can not afford!

Your science advisor informed you nine months ago that the magnet is being redesigned. This is an attempt to accommodate the existant faulted transformer design theory which has not yet been resolved.

Enclosed is a letter sent to Rep. Foley, Sept. 10, 1990 related to the S.S.C.

Sincerely,

Norman Pollace P.E.

Norman Pollace
Licensed Professional Engineer

cc: The Houston Chronicle
The Washington Post
Senator Bensten
Rep. Thomas Downey
Rep. David Obey
Mayor James Self
File

10630 Beechnut #1806
Houston, TX 77072
September 10, 1990

Tel: (713) 933-4012

Honorable Rep. Thomas Foley
Longworth House Office Bldg.
Washington, DC 20515

SUBJECT: THE SUPERCONDUCTING SUPER COLLIDER (SSC)

Sir:

The GAO must investigate the possible substitution of the Wakefield Accelerator for the SSC on schedule to be built in Texas. The Wakefield was developed at the Federal National Laboratory, located in Argonne, Ill.

The present estimated cost of the Super Collider is \$9.0 Billion and has a 55 mile (electron-neutron) particle run. The Wakefield Accelerator will cost approximately \$3 Billion and have a 2.0 mile (electron-proton) particle run, and capable of the same production output as the Superconducting Super Collider.

Enclosed is an article that appeared in the July 1990 issue of Popular Mechanics, "Clash of the Particle Colliders." Note that both the Wakefield Accelerator and the SSC are illustrated, and their salient parameters described.

A most pertinent and related article appeared in the Houston Chronicle between November 1989 and March 1990. The statement was made that there was extant inadequacies in the SSC transformer theory: in the interim no report of resolution.

The large Electron-Positron Collider, on the Franco/Swiss border, was activated in July 1989 and has a 26.7 mile particle run. It has been a huge success. Quote, the Scientific American Magazine: The abundance of data will enable physicists to probe their present understanding of physical law as never before. Unquote: Why one year later, should the U.S. build the SSC?

In June 1990 Rep. Obey of the House Appropriations Committee strongly opposed the \$325 million funding for the SSC, stating the money was needed elsewhere. At least one Congressman is THINKING, of the 500 . . . anymore?

There is a war in the making, cancel the entire SSC funding and stop the present contractor design activities as implied by Rep. David Obey.

Furthermore cancel the \$16 Billion President Bush has put in the budget for 20 Flawed Stealth B2 Bombers . . . a rip-off item of the Military/Industrial Complex.

Rep. Thomas Foley
Septemebr 10, 1990
2 of 2

Give the \$9.0 Billion to the governors of the states to correct the badly faulted educational system which was established in 1952!

The Federal Education Agency should accelerate the innovative, progressive policies of the Alief Independent School District (AISD) of Houston, Texas and the Houston Community College (CC). Contact: AISD Assistant Superintendent Dr. Judith Wallis, PhD., Tel: (713) 498-8110 and HCC, Dr. Ali Khansari, PhD., Tel: (713) 630-1810.

I am a member of the National Society of Professional Engineers and a former member of the Military Assistance Advisor Group in Taiwan and Vietnam: also a former Associate Engineer with the U. S. Military and an observer of the first Collider built in the U. S. at the Brookhaven Scientific Laboratory on Long Island, N.Y.

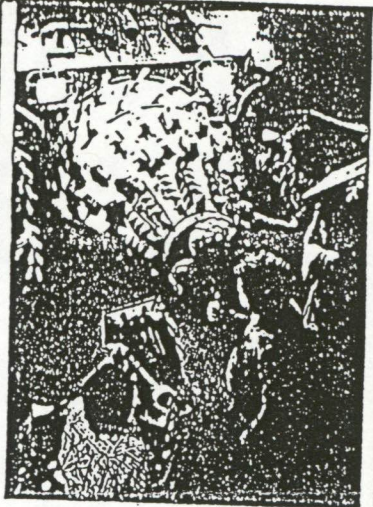
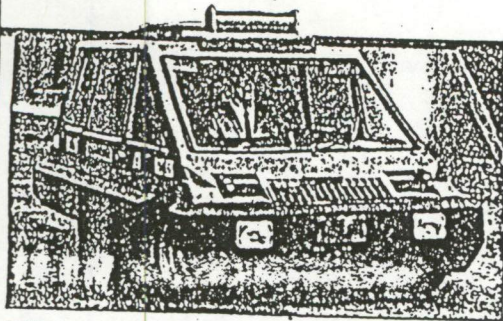
Respectfully,

Norman Pollace
Norman Pollace P.E.

NP:pds

Enclosures: "Clash of the Particle Collider"
"The LEP Collider"
"The Prize--Collider Contract"

cc: Senator Cranston
Rep. D. Obey
Chronicle News Bureau
File
GAO



F/X Bonanza In 'Total Recall'

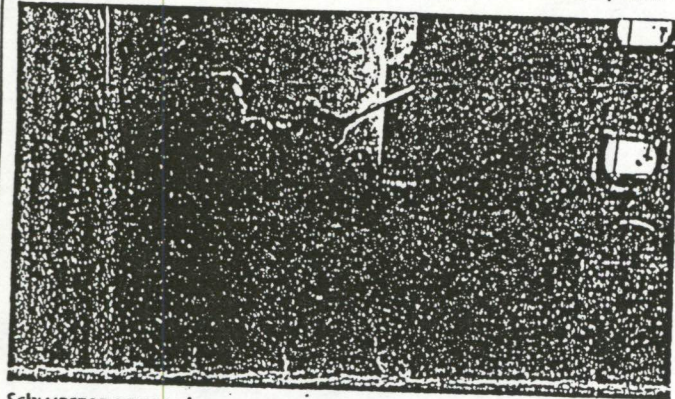
HOLLYWOOD, CA—Special-effects junkies may reach nirvana when "Total Recall" hits the screen this summer. Directed by Paul "Robocop" Verhoeven, and

starring Arnold Schwarzenegger, the film reportedly cost more than \$60 million to make.

The Los Angeles-based Dream Quest Images, which created the lush scenic effects of "Blade Runner" and "The Abyss", handled the film's optical effects. Filmmakers spent an unprecedented amount of time using real-time, motion-control camerawork. This allows a computer-controlled camera to pan across characters moving in front of a blue screen. Then the same motion-control program steers a

Computer-controlled Animatronic brought to life the cyborg driver of film's Johnny-cab (left). Other futuristic hardware includes a murderous mole machine (above).

camera panning over a matte background painting or miniature set. Parts of the movie are set on Mars, and the sets derive from NASA's concepts of human settlements on the red planet.



Schwarzenegger plays a construction worker of the year 2084.

Clash Of The Particle Colliders

ARGONNE, IL—As plans for the huge Superconducting Supercollider (SSC) wax ever more costly, a new accelerator has proved able to whip electrons up to speed over desktop distances.

Recently demonstrated at Argonne National Laboratories, the wakefield accelerator uses a technique reminiscent of racing cars "drafting" the car ahead.

In Argonne's apparatus, a driver beam, a pulse of electrons, is fired along a ceramic tube. As it travels, the beam induces in its wake a moving charge that races along the inside of the tube. This moving charge pulls a second group of particles launched a fraction of a second behind the driver beam.

Accelerating continuously, the energy level of the trailing beam builds quickly. Injectors feed fresh driver beams into the tube to replace driver beams whose energy is flagging. The timing of these injections—to the billionth of a second—is crucial to the accelerator's operation.

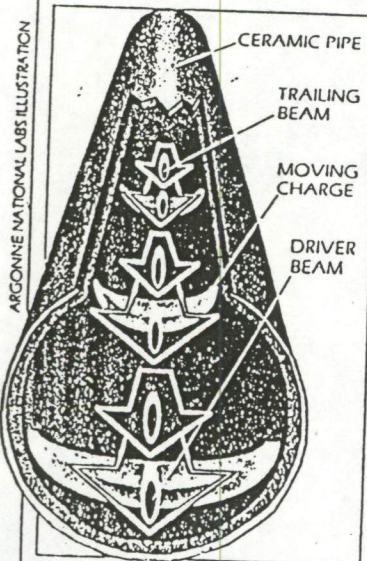
Scaled up, the existing apparatus could generate light-speed energy levels with a tube only 32 ft. long. A tube 2 miles long, configured for

heavier protons instead of electrons, could do the job the 55-mile-long SSC is expected to do.

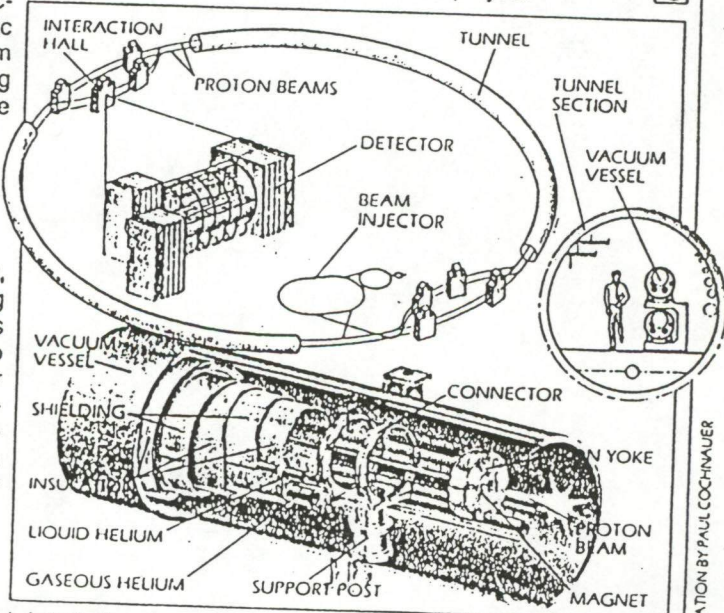
Meanwhile, the price tag for the SSC has jumped from \$5.9 billion to more than \$7

billion. Reason: The proton smasher will need a beam injector twice as powerful as originally planned, and a beam tube ½ in. wider. Ground has yet to be broken for the project.

U



In wakefield accelerator, trailing beams ride on wake of driver beam. Wake shows up as moving charge on inside tube.



Latest plans for the SSC include a 2-trillion-electron-volt injector [top] and new cryostat [above] with a wider beam tube.

PM ILLUSTRATION BY PAUL COCHNAUER

THE WHITE HOUSE
WASHINGTON

April 21, 1992

Dear Mr. Pollace:

I am responding to your letter to President Bush concerning the Superconducting Super Collider (SSC).

The SSC team at Waxahatchie, Texas is making good progress on the magnets for the accelerator. The Department of Energy, which oversees the project, has stated that the magnet development work is, if anything, ahead of schedule.

Sincerely yours,

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
The Assistant to the President
for
Science and Technology

Mr. Norman Pollace, P.E.
10630 Beechnut, #1806
Houston, TX 77072

STAFFING SHEET

EXTERNAL COORDINATION: _____

ACTION REQUESTED:

[illegible]