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ORIGINATOR: 02 STATUS I DIRECTORATE STATUS
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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 ASSIGNED: PHYSICAL SCIENCES
STAFF ASSIGNED:

ACTION REQUIRED: AS APPROPRIATE
STAFF ACTION:

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

****

COPIES TO: D. Allan Bromley

****

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

REMARKS: Dr. Erb drafted letter for DAB's signature for C.T. 920. This can be cleared out, per Dawn. Get more signatures.

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

CENTRAL FILES:

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

2545

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

DEPARTMENT OF PHYSICS 538 West 120th Street

RECEIVED
92 JUL 20 P12:11
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MAIL ROOM

July 15, 1992

Dr. D. Allan Bromley
Science Advisor to the President
Old Executive Office Building
Washington, D. C. 20506

Dear Allan,

The same letter has also been sent to the President, to all of the Senators and to those Congressmen who changed their votes.

I hope very much that you can help.

Cordially,

T. D.

T. D. Lee

P.S. I just came back from the Orient. Premier Hao of Taiwan is ready to contribute $50M to the SSC detector. President Arima of Tokyo University told me that confidential contact with Miyazawa strongly indicates that they are prepared to move forward with $1B SSC contribution once our domestic problem is resolved.

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

DEPARTMENT OF PHYSICS 538 West 120th Street

July 13, 1992

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)
- Paul Chu, University of Houston
  (National Medal of Science, 1988)
- Leon N. Cooper, Brown University
  (Nobel Prize in Physics, 1972)
- Alan M. Cormack, Tufts University
  (Nobel Prize in Medicine, 1979)
- James W. Cronin, University of Chicago
  (Nobel Prize in Physics, 1980)
- Hans G. Dehmelt, University of Washington
  (Nobel Prize in Physics, 1989)
- Sidney D. Drell, Stanford Linear Accelerator Center
  (Deputy Director, SLAC)
- 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)

- Murray Gell-Mann, California Institute of Technology
  (Nobel Prize in Physics, 1969)
- Donald A. Glaser, University of California, Berkeley
  (Nobel Prize in Physics, 1960)
- Sheldon L. Glashow, Harvard University
  (Nobel Prize in Physics, 1979)
- Marvin L. Goldberger, University of California, Los Angeles
  (President Emeritus, California Institute of Technology)
- Maurice Goldhaber, Brookhaven National Laboratory
  (Director Emeritus, BNL; Wolf Prize, 1991)
- 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)
- George E. Pake, Institute for Research on Learning, Palo Alto
  (National Medal of Science, 1987))
- W. K. H. Panofsky, Stanford Linear Accelerator Center
  (Director Emeritus, SLAC; National Medal of Science, 1969)
- John Peoples, Fermi National Accelerator Laboratory
  (Director, Fermilab)
- Norman F. Ramsey, Harvard University
  (Nobel Prize in Physics, 1989)
- Burton Richter, Stanford Linear Accelerator Center
  (Director, SLAC; Nobel Prize in Physics, 1976)
- Abdus Salam, International Centre for Theoretical Physics, Trieste
  (Nobel Prize in Physics, 1979)
- Nicholas P. Samios, Brookhaven National Laboratory
  (Director, BNL)
- Frederick Seitz, Rockefeller University
  (President Emeritus, Rockefeller University; National Medal of Science, 1973)
- Joseph H. Taylor, Princeton University
  (Wolf Prize, 1992)

- Samuel C.C. Ting, Massachusetts Institute of Technology
  (Nobel Prize in Physics, 1976)
- Alvin Trivelpiece, Oak Ridge National Laboratory
  (Director, ORNL)
- James A. Van Allen, University of Iowa
  (National Medal of Science, 1987)
- Simon Van der Meer, CERN Laboratory, Geneva
  ((Nobel Prize in Physics, 1984)
- 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)

(This is the same letter sent on June 25th, but with more signatures.)

Additional Signatures in Support of the SSC on File

(listed alphabetically on the following pages)

Altogether there are 2032 scientists who have signed; 1707 are from the U.S. and 325 from foreign countries (including 107 from Japan and 152 from Europe).

Abe, Fumio	KEK, Japan
Abe, Koya	KEK, Japan
Abolins, Maris A.	Michigan State University
Abramovick, Shaul	SSCL
Acevedo, Raul	University of Texas, Austin/IFS
Adams, Sam H., Jr.	Florida State University
Adamus, M.	University of Warsaw
Agnew, Willie	SSCL
Aiello, Roberto	SSCL
Alexeev, Gena	JINR, Dubna
Allen, Charles C.	University of Texas, Austin
Allen, John Ed	University of North Texas
Allen, M. Marsha	Johns Hopkins University
Allen, Roland	Texas A&M University
Alley, Gary T.	Oak Ridge National Laboratory
Altarelli, G.	CERN, Geneva
Amako, Katsuya	KEK, Japan
Ammar, Raymond G.	University of Kansas
Anderson, Jeffrey D.	University of California, Berkeley/LBL
Anghel, Nicolae	University of North Texas
Anway-Wiese, Carol	University of California, Los Angeles
Anzirono, G.	INFN, Frascati
Apparao, Tamirisa	SSCL
Appelquist, Thomas	Yale University
Arai, Yasuo	KEK, Japan
Archurin, Nural	University of Iowa
Arisaka, Katsushi	University of California, Los Angeles
Armstrong, Thomas P.	University of Kansas
Arnade, Chris	Johns Hopkins University
Arneodo, M.	INFN, Torino
Arnold, Peter	University of Washington
Arnowitt, Richard	Texas A&M University
Arsenson, M. Elizabeth	University of California, Berkeley/LBL
Aryal, Mukunda M.	Ohio State University
Asai, Makoto	KEK, Japan
Asakawa, Masayuki	Texas A&M University
Asakawa, Takashi	KEK, Japan
Asano, Yuzo	KEK, Japan
Ash, Cynthia L.	Ohio State University
Atiya, Maged	Brookhaven National Laboratory
Atwood, David	Brookhaven National Laboratory
Augustynowicz, Stan	SSCL
Austern, Matthew	University of California, Berkeley/LBL
Avery, Paul	Florida State University
Avery, Robert E.	Northwestern University
Axe, John D.	Brookhaven National Laboratory
Ayers, David S.	Argonne National Laboratory
Ayers, Yvonne	University of California, Riverside
Azuels, G.	TRIUMF
Babu, Kaladi	University of Delaware
Baden, Andrew	University of Maryland
Badgett, William	University of Michigan
Badley, Cheryl	Southern Methodist University
Baer, Howard	Florida State University
Bagayoko, Drola	Southern University and A&M College
Bagger, Jonathan	Johns Hopkins University
Baggett, Neil	SSCL

Bai, Jingzhi	CERN, Geneva
Bailey, Bobby R.	Florida State University
Bailey, David	University of Toronto
Baishev, Igor	IHEP, Protvino
Baker, Marshall	University of Washington
Balantekin, A. B.	University of Wisconsin
Balderston, John M.	University of Hawaii
Balka, Leonard J.	Argonne National Laboratory
Ball, Austin	University of Maryland
Ball, James	University of Utah
Ball, Robert C.	Michigan State University
Ball, Steven	University of Kansas
Baltay, Charles	Yale University
Baltz, Anthony J.	Brookhaven National Laboratory
Banerjee, Amal	University of Texas, Austin
Banerjee, Manoj K.	University of Maryland
Barabash, Leonid	JINR, Dubna
Baranger, Michel	Massachusetts Institute of Technology
Baranko, Gregory J.	University of Colorado
Barbaro-Galteieri, Angela	University of California, Berkeley/LBL
Barber, Nathan	SSCL
Bardeen, William A.	Fermi National Accelerator Laboratory
Bardin, D.	JINR, Dubna
Barduku, Korut	University of California, Berkeley/LBL
Barelos, Dorothy	SSCL
Bargende, A.	University of Bonn
Barger, Kevin	University of Iowa
Barger, Vernon D.	University of Wisconsin
Baringer, Philip	University of Kansas
Barish, Barry	California Institute of Technology
Barnett, R. Michael	University of California, Berkeley/LBL
Barrett, John A.	Harvard University
Barton, Henry R., Jr	SSCL
Bartoszek, Larry	Fermi National Accelerator Laboratory
Barts, Therese C.	SSCL
Basiti, Shans	SSCL
Bator, Elizabeth	University of North Texas
Batskikh, Guennadi	SSCL/MRTI
Bauerdick, L. A. T.	CERN, Geneva
Baumbaugh, Alan	Fermi National Accelerator Laboratory
Baur, Ulrich	Florida State University
Bauve, Walter	SSCL
Beach, John E.	SSCL
Beacom, John	University of Wisconsin
Bebek, Chris	Cornell University
Bedaque, Paulo	University of Rochester
Bedo, Michael E.	Argonne National Laboratory
Bedwell, John R., Jr	Ohio State University
Beechy, David	SSCL
Beery, Peter	University of California, Riverside
Belarger, David	University of California, Santa Cruz
Belitz, Dietrich	University of Oregon
Bella, Gideon	Tel Aviv University
Bellettini, Giorgio	University of Pisa
Bensinger, Jim	Brandeis University
Beretvas, Andrew F.	Fermi National Accelerator Laboratory
Berger, Edmond	Argonne National Laboratory

Bernard, F.	University of Toronto
Bertolisi, Maurizio	Florida State University
Bhadia, S.	University of Toronto
Biery, Kurt	McGill University
Bilton, Jeff	SSCL
Binford, Lewis R.	Southern Methodist University
Bingham, Carrol	University of Tennessee
Bingham, Harry H.	University of California, Berkeley/LBL
Bird, Fred	SSCL
Birkbeck, John R., Jr.	University of Iowa
Blaer, Allan S.	Columbia University
Blair, Robert E.	Argonne National Laboratory
Blair, William P.	Johns Hopkins University
Blaird, Grahame	Oxford University
Blanford, Glenn	University of California, Irvine
Blankenship, K.	Virginia Polytechnic Institute and State University
Blocker, Craig A.	SSCL
Bloem, Kenneth	University of Chicago
Bloomer, John	University of Rochester
Blumenthal, George	University of California, Santa Cruz
Boas, David	University of Pennsylvania
Bockelman, Charles K.	Yale University
Bodanoly, David	University of Washington
Bolton, Tim	Columbia University
Bonushkin, Yuri	SSCL
Booth, Alexander W.	SSCL
Booth, Edward C.	Boston University
Booth, Michael J.	University of Chicago
Borcherding, Fred O.	Fermi National Accelerator Laboratory
Border, Pete	University of Minnesota
Bornstein, Lawrence A.	New York University
Borzumati, F.M.	University of Hamburg
Boscherini, D.	Bologna University
Bothun, Gregory D.	University of Oregon
Botlo, Michael	SSCL
Boufaino, Moncef	University of Kansas
Bourianoff, George	SSCL
Bowcock, Peter	University of Chicago
Bowden, Mark	SSCL
Bowens, Charles W.	Johns Hopkins University
Bowens, Lynn	University of California, Riverside
Bower, Charles R.	Indiana University
Bowin, Geoffrey	Argonne National Laboratory
Boyanovsky, Daniel	University of Pittsburgh
Boyd, Charles Glen	University of Chicago
Brabson, Bennet B.	Indiana University
Brady, F. Paul	University of California, Davis
Brahm, David E.	California Institute of Technology
Brandenburg, George	Harvard University
Brandt, Andrew	Fermi National Accelerator Laboratory
Brashear, Hugh R.	Oak Ridge National Laboratory
Brater, David A.	University of Kansas
Brau, James E.	University of Oregon
Bridges, Frank	University of California, Santa Cruz
Briere, Roy A.	University of Chicago
Brightman, Susan A.	University of Rochester
Brignall, Shirley	University of Rochester

Brill, Joseph W.	University of Kentucky
Brinckerhoff, W.	Ohio State University
Brisudova, Marina	Ohio State University
Bromberg, Carl	Michigan State University
Brook, N.	University of Glasgow
Brooks, Meade	SSCL
Browder, Thomas	Cornell University
Brown, David N.	Purdue University
Brown, Douglas H.	Boston University
Brown, Janice	Southern Methodist University
Brown, Lowell S.	University of Washington
Brown, Marco	College of William and Mary
Brown, Willie D.	Southern University and A&M College
Bruhl, Todd E.	Fermi National Accelerator Laboratory
Bruner, Leon J.	University of California, Riverside
Bryan, Ronald A.	Texas A&M University
Buchanan, Charles	University of California, Los Angeles
Buchholz, David A.	Northwestern University
Buchholz, Leah	University of Rochester
Buckley-Geer, Elizabeth	University of New Jersey
Budagov, Julian	JINR, Dubna
Budd, W. Howard	University of Rochester
Bugg, William M.	University of Tennessee
Buhlmahn, Jeffrey W.	Pennsylvania State University
Burchat, Patricia R.	University of California, Santa Cruz
Burden, Craig Noel	University of California, Davis
Burk, John C.	Carnegie-Mellon University
Burkett, Kevin	University of Michigan
Burnett, Thompson	University of Washington
Burow, B.	University of Toronto
Burrows, Adam	Arizona State University
Burrows, Philip N.	Massachusetts Institute of Technology
Busza, Wit	Massachusetts Institute of Technology
Butler, Donald	Southern Methodist University
Butterworth, Ian	Imperial College, London
Buynak, John D.	Southern Methodist University
Bylsma, Ben	Ohio State University
Byrd, Gene	Alabama State University
Byrum, Karen	Argonne National Laboratory
Cahill, Kevin E.	New Mexico University
Cahn, Robert N.	University of California, Berkeley/LBL
Cai, Yunhai	SSCL
Calaprice, Frank	Princeton University
Caldwell, David O.	University of California, Santa Barbara
Campagnari, Claudio	Fermi National Accelerator Laboratory
Campbell, Myron K.	Michigan State University
Campbell, William B.	University of Nebraska
Cangemi, Daniel	Massachusetts Institute of Technology
Capriotti, John D.	University of Minnesota
Carbaugh, Dean A.	Argonne National Laboratory
Carcagno, Ruben	SSCL
Carena, Marcela	Max Planck Institute, Munich
Carithers, William	Lawrence Berkeley Laboratory
Carlsmith, Duncan	University of Wisconsin
Carlson, Carl E	College of William and Mary
Carlson, Eric	Harvard University
Carone, Christopher	Harvard University

Carr, James A.	Florida State University
Carruthers, Peter	Arizona State University
Carter, Fred	SSCL
Cases, G.	University of Madrid
Casher, Aharon	Tel Aviv University
Cassel, David G.	Cornell University
Cassidy, Adrian	University of Bristol
Cates, Gordon D.	Princeton University
Catterall, C.	University of California, Irvine
Celik-Butler, Zeynep	Southern Methodist University
Cenco, Robert J.	University of Hawaii
Ceresole, Anna	California Institute of Technology
Chakraborty, Dhiman	SUNY at Stony Brook
Chan, Lai-Him	Louisiana State University
Chang, Chung Yan	University of Maryland
Chang, Ngee-Pong	City College of CUNY
Channell, Paul J.	Los Alamos National Laboratory
Chanowitz, Michael S.	University of California, Berkeley/LBL
Chao, Alexander	SSCL
Chapin, Thomas J.	Rockefeller University
Chapman, G.	SSCL
Chapman, J. Wehrley	Michigan State University
Chau, Ling-Lie	University of California, Davis
Chen, B.	University of Texas, Austin
Chen, Bo	SSCL
Chen, Jiagen	University of Texas, Austin
Chen, Kuan-Ren	University of Texas, Austin
Chen, Senyu	SSCL/MEB
Chen, Zurcun	SSCL
Chertok, Maxwell B.	Boston University
Cheung, Peter W.	Hong Kong University
Chiang, I-Hung	Brookhaven National Laboratory
Chiba, Masami	KEK, Japan
Chiba, Yasuo	KEK, Japan
Childers, Richard L.	University of South Carolina
Chin, Siuah	Texas A&M University
Chinowsky, William	University of California, Berkeley/LBL
Chivukula, R. Sekher	Boston University
Cho, Peter	Harvard University
Chodos, Alan	Yale University
Choi, Kiwoon	University of California, San Diego
Chou, Chihong	Massachusetts Institute of Technology
Chou, Wiren	SSCL
Choudhary, Brajesh	University of California, Riverside
Chow, Yutze	University of Wisconsin
Christ, Norman H.	Columbia University
Christensen, Nelson	University of Minnesota
Christopher, John E.	University of Kentucky
Chung, H.	University of Colorado
Cibovouski, J.	University of Warsaw
Cinabros, David	Harvard University
Citraro, Deborah K.	University of Tennessee
Cizewski, Jolie A.	Rutgers University
Cladwell, Ian	Southern Methodist University
Claes, Daniel R.	SUNY at Stony Brook
Clapp, Marshall D.	Argonne National Laboratory
Clark, Bunny C.	Ohio State University

Clavelli, Louis J.	Alabama State University
Clayton, Edmund	University of California, Riverside
Clayton, Thomas M.	SSCL
Cleland, W. C.	University of Pittsburgh
Clemen, Mark	Carnegie-Mellon University
Cline, James M.	University of Minnesota
Close, Angela E.	Southern Methodist University
Cobau, William G.	Michigan State University
Cochran, James H., Jr.	SUNY at Stony Brook
Cohen, E. G. D.	Rockefeller University
Cohen, Iuliana	Tel Aviv University
Cohen, J. David	University of Oregon
Cohn, Hans O.	Oak Ridge National Laboratory
Coker, W. R.	University of Texas, Austin
Cole, Brian	Columbia University
Cole, Rod	University of California, Davis
Coleman, Sidney	Harvard University
Collar, Juan I.	University of South Carolina
Collins, Tim	University of Rochester
Combs, Laura J.	SSCL
Conger, Sarah Elizabeth	Johns Hopkins University
Contrevos, M.	University of Chicago
Convery, Mark	Princeton University
Cook, James K.	University of Pennsylvania
Cooper, John W.	Fermi National Accelerator Laboratory
Corbin, Michael	Johns Hopkins University
Corden, M.J.	Florida State University
Cormell, Laird R.	SSCL
Corriveau, Ovide J.	University of Rochester
Coulter, Philip W.	Alabama State University
Coupal, David P.	SSCL
Courant, Ernest D.	Brookhaven National Laboratory
Courant, Hans W.	University of Minnesota
Cousins, Robert	University of California, Los Angeles
Couture, Gilles	Southern Methodist University
Covault, Corbin	University of Chicago
Cowen, Douglas F.	California Institute of Technology
Cowen, Nathaniel	University of Rochester
Cox, D.E.	Brookhaven National Laboratory
Coyle, Frank P.	Southern Methodist University
Coyne, Donald	University of California, Santa Cruz
Craig, Joseph	University of Texas, Austin
Crasemann, B.	University of Oregon
Creutz, Michael	Brookhaven National Laboratory
Crescimanno, Michael J.	Massachusetts Institute of Technology
Crittenden, Jim	University of Bonn
Crittenden, Robert G.	University of Pennsylvania
Croaker, Peter P.	University of Hawaii
Crosetto, Dario	SSCL
Crowley-Milling, Michael	CERN, Geneva
Csonka, Paul L.	University of Oregon
Cue, Nelson	Hong Kong University
Cummalat, John	University of Colorado
Cummings, F. W.	University of California, Riverside
Cunningham, John	Brandeis University
Curbow, James E.	SSCL
Cushman, Priscilla	Yale University

Cvetic, Mirjam	University of Pennsylvania
D'Hoker, Eric	University of California, Los Angeles
Dagan, Samuel	Tel Aviv University
Dai, Tieshong	MZT, China
Daigo, Motomasa	KEK, Japan
Danesh, Nasser	SSCL
Danilov, Michael	ITEP, Protvino
Danyo, Kathleen	University of Tennessee
Darden, W.	University of South Carolina
Das, Ashok	University of Rochester
Dashen, Roger	University of California, San Diego
Datskov, Vladimir	JINR, Dubna
Datte, Philip	SSCL
Daubemier, C. Mark	Ohio State University
Davidson, J. P.	University of Kansas
Davidson, Ronald C.	Princeton University
Davis, Robert C.	Southern Methodist University
Dawson, John	Argonne National Laboratory
De Alwis, S. P.	University of Colorado
De Serio, Robert	University of Tennessee
De, Kaushik	University of Michigan
DeFeo, Darlene M.	University of California, Riverside
Degen, Michael M.	Ohio State University
del Peso, J.	University of Madrid
Dennis, Lawrence C.	Florida State University
Derrick, M.	Argonne National Laboratory
Derwent, Paul F.	University of Michigan
Deshpande, N.G.	University of Oregon
Detar, Carleton	University of Utah
Devenish, R.	Oxford University
DeYoung, D. S.	Kitt Peak National Observatory
Dickey, John M.	University of Minnesota
Dickson, Mark	University of Rochester
Dignan, Thomas	Harvard University
DiMarco, Joseph	SSCL
Dingus, Peter	SSCL
Distler, Jacques	Princeton University
Diwan, Milind	Stanford University
Dixon, William Van Dyke	Johns Hopkins University
do Silva, Carnilho	Fermi National Accelerator Laboratory
Dobson, Peter N. Jr.	Hong Kong University
Dohan, Donald A.	SSCL
Doi, Yoshikuni	KEK, Japan
Domansky, Karel	University of Utah
Domokos, G.	Johns Hopkins University
Donahue, D. J.	Arizona State University
Done, James P.	Texas A&M University
Donnelly, Russell J.	University of Oregon
Dorenbosch, Jheroen	SSCL
Dorfan, David	University of California, Santa Cruz
Dorfweister, Gerda	University of Kansas
Douglas, David H.	University of Rochester
Dounine, Vladimir	JINR, Dubna
Doyle, A. T.	University of Glasgow
Draper, Paul A.	University of Texas, Arlington
Draper, Terrence	University of Kentucky
Drees, Manuel	DESY, Germany

Drees, Reena Meijer	McGill University
Drell, Persis S.	Cornell University
Dressnandt, Nandor	University of Pennsylvania
Duboscq, J.E.	CERN, Geneva
Duchorn, Ehud	Weizmann Institute
Dugan, Gerald	SSCL
Duke, Dennis	Florida State University
Dulá , Jose H.	Southern Methodist University
Duller, Nelson M.	Texas A&M University
Duman, Timothy A.	University of Kansas
Dunklin, R.	SSCL
Dunn, William L.	Quantum Research Services, Inc.
Durand, Bernice	University of Wisconsin
Durand, Loyal	University of Wisconsin
Durkin, L. Stanley	Ohio State University
Dutt, Samir K.	SSCL
Dykstra, Hans	Fermi National Accelerator Laboratory
Eartly, David	Fermi National Accelerator Laboratory
Eberhard, Philip	University of California, Berkeley/LBL
Eberle, Cliff	Oak Ridge National Laboratory
Ebner, Charles A.	Ohio State University
Eckhause, Morton	College of William and Mary
Ecklund, Karl	Stanford University
Ecklund, Stanley D.	Stanford Linear Accelerator Center
Edelstein, Richard M.	Carnegie-Mellon University
Edmonds, Dean S., Jr.	Boston University
Edwards, Robert	Florida State University
Efremenko, Yuri	University of Tennessee
Egan, James	SSCL
Eich, Margaret H.	Southern Methodist University
Eichten, E.	Fermi National Accelerator Laboratory
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Tarenton, Grey M.	University of Texas, Austin
Tarkovsky	ITEP, Moscow
Tarlé, Gregory	Michigan State University
Tata, Xerxes	University of Hawaii
Tawikella, Viswanath	Northern Illinois University
Taylor, Edwin F.	Boston University
Taylor, Frank E.	Massachusetts Institute of Technology
Taylor, Larry W.	SSCL
Taylor, Robert J.	Argonne National Laboratory
Taylor, Stacy L.	University of Tennessee
Taylor, Washington	University of California, Berkeley/LBL
Tcherniatine, V.	Brookhaven National Laboratory
Tchistilin, Victor	ITEP, Protvino
Tedja, Suharli	University of Pennsylvania
Terada, Susumu	KEK, Japan
Teramoto,Yoshiki	KEK, Japan

Tesse, Eric	Johns Hopkins University
Teuscher, R.	University of Toronto
Thacker, Beth A.	Ohio State University
Than, Roberto Y.	SSCL
Thews, R. L.	Arizona State University
Thiagaraijan, V.	SSCL
Thirumaleshwar, M.	SSCL
Thomas, Jennifer	SSCL
Thomas, John E.	Duke University
Thomas, Timothy L.	University of Minnesota
Thompson, Carrie	University of California, Riverside
Thompson, Murray A.	University of Wisconsin
Thorndike, E. H.	University of Rochester
Throwe, Thomas	Brookhaven National Laboratory
Thun, Rudolf P.	Michigan State University
Thunborg, Jon	SSCL
Thurston, Tim	SSCL
Tiller, D. Ronalt	North Carolina State University
Titov, Alexey	Rockefeller University
Tkaczyk, Slawomir	Fermi National Accelerator Laboratory
Tob, P. K.	Argonne National Laboratory
Tokushuku, Katsuo	Institute for Nuclear Study, Tokyo
Tollestrup, Alvin V.	Fermi National Accelerator Laboratory
Tomasch, Andrew	Michigan State University
Tomozawa, Yukio	Michigan State University
Ton-That, Toung	University of Iowa
Tonry, John	Massachusetts Institute of Technology
Towne, Michael R.	University of California, Riverside
Trahern, Charles G.	SSCL
Tramm, Irene	Columbia University
Traversat, Bernard	SSCL
Trees, Brad R.	Ohio State University
Trimmer, Philip C.	Florida State University
Tripathi, Arun	Ohio State University
Trippe, Thomas G.	University of California, Berkeley/LBL
Trivelpiece, Alvin W.	Oak Ridge National Laboratory
Trost, Hans-Jochen	Texas A&M University
Trueman, T. Lawrence	Brookhaven National Laboratory
Truran, James W.	University of Chicago
Tseng, C. W. (Jeff)	SSCL
Tsipolitis, Georgio	Carnegie-Mellon University
Tsuboyama, Toru	KEK, Japan
Tsukada, Kiwamu	KEK, Japan
Tsurugai, T.	CERN, Geneva
Tsyganov, Edward	JINR, Dubna
Tuan, S. F.	University of Hawaii
Tulk, Gary W.	SSCL
Tumer, T.	University of California, Riverside
Tung, M.	University of Mainz
Turcotte, Marc	SSCL
Turner, Paula	Kenyon College
Turner, William C.	SSCL
Turok, Neil	Princeton University
Tuttle, Gary	SSCL/Lockheed ESC
Tyapkin, Igor	JINR, Dubna
Uhl, Christopher	Ohio State University
Uijterwaal, H.	NIKHEF, Amsterdam

Ujiie, Norihiko	KEK, Japan
Ukegawa, Fumihiko	KEK, Japan
Ullmann, R.	McGill University
Underwood, David G.	Argonne National Laboratory
Vagel, Helmut	Carnegie-Mellon University
Vaguine, Alexei I.	SSCL/MRTI
Vaidman, Lev	Tel Aviv University
Vainshtein, Arkady	University of Minnesota
Van Berg, Richard	University of Pennsylvania
Van Dalen, Gordon J.	University of California, Riverside
Van Dam, James W.	University of Texas, Austin
Van Haaren, Michael	Quantum Research Services, Inc.
Van Kooten, Rick	CERN, Geneva
van de Sande, Brett	Ohio State University
van de Sande, Carla	Ohio State University
Vance, Joseph, E.	Ohio State University
Vanore, Bill	University of California, Riverside
Vanstroelen, Guy	SSCL
Verdier, Robin F.	Massachusetts Institute of Technology
Vertogradov, Leonid	JINR, Dubna
Verzegnassi C.	DESY, Germany
Vickery, Glenn L.	SSCL
Villaume, Garrick M.	University of Minnesota
Vitt, Frances	University of Kansas
Vo, Ha	SSCL
Vogel, Mary Beth	University of Rochester
Voloshin, Mikhail	University of Minnesota
von der Schmitt, Hans	Heidelberg University
Vorjenevsky, Sergey	Boston University
Vranas, Pavlos	Florida State University
Wade, David	Cornell University
Wagner, Carlos E.	Max Planck Institute, Munich
Wagner, Lukas	Ohio State University
Wagner, Robert G.	Argonne National Laboratory
Wagoner, David E.	Prairie View A&M University
Wai, L.	Columbia University
Walczak, R.	University of Warsaw
Walker, Nicholas J.	Stanford Linear Accelerator Center
Walker, Terry	Ohio State University
Walker, William D.	Duke University
Wallace, Noah B.	University of Minnesota
Walter, Richard L.	Duke University
Walz, Richard E.	SSCL
Wang, Angel T.M.	University of South Carolina
Wang, Dong	IHEP, Beijing
Wang, Edward	SSCL
Wang, Fuhua	SSCL/Beamlines
Wang, Jinsong	University of Chicago
Wang, Meng-Yuan	Harvard University
Wang, Min-Zu	University of Iowa
Wang, Pey-Ley	Oklahoma State University
Wang, Xiao-Qing	SSCL
Warchall, Henry	University of North Texas
Ward, Bennie F. L.	Stanford Linear Accelerator Center
Ware, Brent	University of Texas, Austin
Warren, Barbara E.	University of Rochester
Wasserbaeth, Steven	Florida State University

Watanabe, Yasushi	KEK, Japan
Watase, Yoshiyuki	KEK, Japan
Watson, Nigel	CERN, Geneva
Weaver, H. Joseph	Lawrence Livermore National Laboratory
Webb, David J.	University of California, Davis
Webb, Robert C., Sr.	Texas A&M University
Webber, Robert C.	SSCL
Webster, Leslie Ann	University of California, Riverside
Wedermeyer, R. J.	University of Bonn
Weerts, Harry	Michigan State University
Wefel, John P.	Louisiana State University
Weidong, Chen	Southern Methodist University
Weingarten, Andrew B.	Vassar College
Weinstein, Alan	California Institute of Technology
Weisberger, William I.	SUNY at Stony Brook
Weller, Henry R.	Duke University
Wellner, Marcel	Syracuse University
Wells, Norman E.	Lockheed ESC
Wells, Robert	Ohio State University
Welsh, Robert E.	College of William and Mary
Wendorf, Fred	Southern Methodist University
Wenzel, W. A.	University of California, Berkeley/LBL
Western, Jeff	SSCL
Wharton, William R.	Wheaton College
Wheeler, Brian K.	Fermi National Accelerator Laboratory
Wheeler, Karen D.	University of Pennsylvania
Whitacre, Michael J.	SSCL
Whitaker, J. S.	Boston University
White, Alan	Argonne National Laboratory
White, Andrew P.	University of Texas, Arlington
White, Christopher	Ohio State University
White, R. Stephen	University of California, Riverside
White, Raymond	Alabama State University
White, Sebastian	Brookhaven National Laboratory
White, Sharon L.	University of Tennessee
Whitmore, James	Pennsylvania State University
Whitmore, Juliane	Ohio State University
Wich, Klaus	University of Hamburg
Wicklund, Authur	Argonne National Laboratory
Wiener, James	Princeton University
Wiggers, Leo	NIKHEF, Amsterdam
Wightman, Jay A.	Texas A&M University
Wilby, Raymond	University of Pittsburgh
Wilcox, Walter	University of Kentucky
Wild, Robert L.	University of California, Riverside
Wile, James C.	University of Texas, Austin/FRC
Wilford, Roena I.	Southern University and A&M College
Wilkinson, Richard	University of Pennsylvania
Willenbrock, Scott	Brookhaven National Laboratory
Williams, Anthony G.	Florida State University
Williams, Hugh H..	University of Pennsylvania
Williams, Mark L.	Louisiana State University
Williams, Richard K.	Southern Methodist University
Williams, Robert W.	University of Washington
Williamson, Claude F.	Massachusetts Institute of Technology
Willis, William J.	Columbia University
Wilson, David J.	Southern Methodist University

Wilson, Peter	Ohio State University
Wilson, Robert J.	Boston University
Wilson, Scott	University of South Carolina
Wilson, Simon	University of Bristol
Wimpenny, Stephen J.	University of California, Riverside
Winch, Thomas R.	SSCL
Winer, Brian L.	U of University of Rochester
Winsor, Robert	University of Iowa
Winstein, Bruce	University of Chicago
Winston, Roland	University of Chicago
Wintenberg, Alan L.	Oak Ridge National Laboratory
Wise, Mark B.	California Institute of Technology
Wisniewski, William J.	SSCL
Witchey, Nicholas	Ohio State University
Witherell, Michael	University of California, Santa Barbara
Wojcicki, Stanley	Stanford University
Wolfenstein, Lincoln	Carnegie-Mellon University
Womersley, John	Florida State University
Wong, Jeffrey T. F.	Hong Kong University
Woo, C. H.	University of Maryland
Wood, Kenneth	Argonne National Laboratory
Wood, Mark L.	Oklahoma State University
Woods, David	University of Minnesota
Woods, Michael B.	Stanford Linear Accelerator Center
Woodward, Wayne A.	Southern Methodist University
Woody, Craig	Brookhaven National Laboratory
Woolley, Ronn P.	SSCL
Worden, Helen M.	Cornell University
Worm, Steven	University of Texas, Austin
Worstell, William A.	Boston University
Wright, Douglas	Princeton University
Wroblewski, A. K.	University of Warsaw
Wu, Dan-di	Prairie View A&M University
Wu, Dolly Y.	SSCL
Wu, Jin Chu	SSCL
Wu, Liatai	University of Iowa
Wu, Weinin	Fermi National Accelerator Laboratory
Wu, Yingshi	CERN, Geneva
Wu, Yue-liang	University of Mainz
Wu, Zhongxin	Rockefeller University
Wudla, Jose	University of California, Riverside
Xenikos, Dimitrios	Ohio State University
Xiao, Dong	Florida State University
Xiaoun, Xia	IHEP, Beijing
Xin, Ying	University of Kansas
Xiou, Zhouwong	University of Tennessee
Xu, Jian-Guo	IHEP, Beijing
Xu, Xun	SSCL
Ya, Diao-gin	SSCL
Yaffe, Laurence G.	University of Washington
Yamamoto, Akira	KEK, Japan
Yan, Tai Xuan	SSCL/LEB
Yan, Yiton	Brookhaven National Laboratory
Yang, Chang You	CERN, Geneva
Yang, Changgen	IHEP, Beijing
Yang, Chia H.	Southern University and A&M College
Yang, Songhoon	Columbia University

Yang, Xiazhun	University of Tennessee
Yankielowicz, Shimon	Tel Aviv University
Yarba, Julia V.	SSCL
Yarba, Victor	IHEP, Protvino
Yasu, Yoshiji	KEK, Japan
Yasuoka, Kiyoshi	KEK, Japan
Yau, Tao-ying	University of Pennsylvania
Ye, Gong	University of Kansas
Ye, Huanchun	University of Texas, Austin
Ye, Sizong	SHEMC, China
Ye, Yunxiu	CERN, Geneva
Yee-Chan, K.W.	Stanford Linear Accelerator Center
Yehudai, Eran	Fermi National Accelerator Laboratory
Yoh, John	Fermi National Accelerator Laboratory
Yoshida, Hajime	KEK, Japan
Yoshida, R.	NIKHEF, Amsterdam
Yoshida, Takuo	KEK, Japan
Yoshinobu, Unno	KEK, Japan
Yost, George P.	SSCL
Youngman, C.	CERN, Geneva
Yount, David	University of Hawaii
Youssef, Saul	Florida State University
Yu, Changhong	University of Tennessee
Yu, Jaehoon	SUNY at Stony Brook
Yu, Nai-Teng	Hong Kong University
Yuan, C. P.	Johns Hopkins University
Yucel, Adnan	SSCL
Yuta, Haruo	KEK, Japan
Zachos, Cosmas	Argonne National Laboratory
Zakrzewski, Janusz A.	University of Warsaw
Zamora, Y.	CERN, Geneva
Zech, Gunter	University of Siegen
Zeller, Michael	Yale University
Zerwas, Peter M.	DESY, Germany
Zhang, Burt X.	SSCL
Zhang, Defu	University of Texas, Austin
Zhang, Ge	University of Tennessee
Zhang, Jing ye	University of Tennessee
Zhang, Jingwu	CERN, Geneva
Zhang, Peilei	SSCL
Zhang, Wei	University of Pennsylvania
Zhang, Xinmin	University of Maryland
Zhang, Yanjun	Southern Methodist University
Zhao, Shulai	Ohio State University
Zhaomin, Wang	University of Science & Technology
Zheng, Hongwei	SSCL
Zheng, Wei	Johns Hopkins University
Zhiang, Yuan	CERN, Geneva
Zhou, Jikang (Jimmy)	SSCL
Zimmerman, George O.	Boston University
Zimmerman, Robert L.	University of Oregon
Zlatev, Ivaylo	University of Tennessee
Zwanziger, Daniel	New York University
Zych, Allen D.	University of California, Riverside

"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9202551
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS

****

FROM: TELLER, Edward

TO: DR. D.A. BROMLEY

DATE OF CORRESPONDENCE: 07/10/92

SUBJECT: HE IS FORWARDING A COPY OF A LETTER HE SENT TO THE PRESIDENT REGARDING THE SSC.

****

DIRECTORATE ASSIGNED: PHYSICAL SCIENCES

STAFF ASSIGNED:

No response is needed. This DJ is a copy of the letter sent by Teller to President Bush. Dr. Bromley answered the letter

ACTION REQUIRED: FOR DAB'S SIGNATURE/IF NECESSARY

STAFF ACTION:

8/3/92

****

SENDER'S DUE DATE:

OSTP DUE DATE: 08/06/92 STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT:

****

COPIES TO: D. Allan Bromley

****

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

REMARKS:

OSTP RECEIVED: 07/23/92 DEPT RECEIVED:
FILE: P-PHYSICAL SCIENCES

CENTRAL FILES:

2551

92 JUL 23 AM 7:07
MAIL ROOM

P. O. Box 808, L-0
Livermore, CA 94551
July 10, 1992

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

Dear Allan:

Enclosed I am sending you a copy of a letter on the Superconducting Super Collider (SSC) addressed to the President. I certainly am not familiar with all aspects of the problem but in case the discussion of my suggestion could be helpful in any manner, I thought you should have a copy that enables you to utilize it.

With best regards,

Edward

Edward Teller

ET:js

Enclosure

Edward Teller
P. O. Box 808, L-0
Livermore, CA 94551

July 10, 1992

The Honorable George Bush
President of the United States
The White House
1600 Pennsylvania Avenue, N.W.
Washington, D.C. 20500

Dear President Bush:

Due to the action of the House of Representatives, the Superconducting Super Collider will be built too slowly if it is built at all. Your wonderful effort in behalf of this project could produce negative results by deflecting money and effort from problems which are now ready for solution. I am, therefore, taking the liberty to write to you in order to propose as a compromise an appropriate postponement of the project until three conditions are fulfilled.

- A European proposal for a more modest accelerator will be finished before the Superconducting Super Collider. The results from this enterprise will almost certainly change the reasonable planning of the American machine. We should wait for this European accomplishment and then ask our friends from abroad to join us in the bigger enterprise which we are planning in Texas.

- Development of superconductivity in the last five years makes it most probable that in the near future less expensive and more effective methods will be found to build a super collider. I should recommend delaying the program to take advantage of developments which are apt to reduce significantly the cost of needed big-scale construction.

- When a decision to build the machine is made, the annual appropriation for its construction should be between $2 and $4 billion in order to finish the construction before the machine becomes obsolete.

Of the three conditions, the last one may be the most important. Indeed, if at present a way could be found for truly massive support of the super collider, this may suffice to justify a prompt decision to built it and finish it. If you could make the decision to substitute for the present slow approach fast and decisive activities in the future, this would make it clear that you are supporting science in a truly effective manner.

Sincerely,

Edward Teller

Edward Teller

cc: Vice President Dan Quayle
Admiral James Watkins
Dr. D. Allan Bromley

"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9202549
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS

****

FROM: LEICHT, Donna Lee

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/10/92

SUBJECT: SHE IS WRITING REGARDING THE REMAINS OF THE TRANNOSAURUS REX FROM SOUTH DAKOTA.

****

DIRECTORATE ASSIGNED: PHYSICAL SCIENCES

STAFF ASSIGNED: Dave C.

ACTION REQUIRED: AS NECESSARY

STAFF ACTION:

****

SENDER'S DUE DATE:

OSTP DUE DATE: 08/06/92

STAFF DUE DATE

DATE COMPLETED:

DATE COMPLETED/DEPT: 8/10/92

****

COPIES TO: D. Allan Bromley

****

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE: EXT:

REMARKS:

OSTP RECEIVED: 07/23/92 DEPT RECEIVED:

FILE: P-PHYSICAL SCIENCES

CENTRAL FILES:

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

August 10, 1992

Dear Ms. Leicht:

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

Sincerely yours,

David C. Cranmer
Fellow

Ms. Dona Lee Leicht
P.O. Box 1621
Laguna Beach, CA 92651

2549

RECEIVED
92 JUL 23 AM : 07
OSTP
MAIL ROOM

10 July 1992

Mr. D. Allan Bromley
Assistant to the President for Science
and Technology
Office of Science and Technology
Executive Office Building
Washington, D. C. 20340

Dear Mr. Bromley:

I protest the seizure of "Sue" from the Black Hills Institute of Geological Research, Inc., 217 Main Street, Hill City, South Dakota. This action by the U. S. Attorney removes the world's most precious and best preserved tyrannosaur from scientific study and public view. It also places it in great jeopardy of being permanently damaged through improper storage. This entire action (executed by 30 FBI agents!!!) by the U. S. Government I find appalling and a waste of taxpayer money. It is astounding to me that our government cannot concern itself with matters of national importance with the kind of "zeal" that it has unleashed at the Black Hills Institute. Shame, shame, shame!!!

I have also requested the Senate Judiciary Committee to recommend against the confirmation of Mr. Kevin Shieffer as U. S. Attorney. I feel Mr. Shieffer has not served the taxpayers well and is a source of embarassment. I would appreciate, as I'm certain the entire scientific community will, everything you can do to secure the return of "Sue" to the Black Hills Institute. In every case, they are the only people who have conducted themselves with any degree of dignity and fairness. I have also noted my concerns to the President, Secretary of the Interior, and my own congress representatives.

Sincerely,

Dona Lee Leicht

Dona Lee Leicht
P. O. Box 1621
Laguna Beach, California 92651

JUL 21 1992

"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9202516
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS

****

FROM: BRESLOW, Ronald: COLUMBIA UNIVERSITY

TO: DR. D.A. BROMLEY

DATE OF CORRESPONDENCE: 07/06/92

SUBJECT: HE IS WRITING WITH HIS COMMENTS IN THE SCIENCE AND TECHNOLOGY REPORT.

****

DIRECTORATE ASSIGNED: PHYSICAL SCIENCES STAFF ASSIGNED:

ACTION REQUIRED: FOR DAB'S SIGNATURE STAFF ACTION:

****

SENDER'S DUE DATE:
OSTP DUE DATE: 08/04/92 STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT: 8/4/92

****

COPIES TO: D. Allan Bromley

****

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

REMARKS:

Dr. Erb responded.

OSTP RECEIVED: 07/21/92 DEPT RECEIVED:
FILE: P-PHYSICAL SCIENCES

CENTRAL FILES:

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

August 4, 1992

Dear Dr. Breslow:

Thank you for your remarks concerning the President's Science and Technology Report and Outlook.

Your concern that fundamental research in established branches of science might be neglected in the quest for new areas for concentration is a serious one, and we in OSTP are committed to ensuring that these areas receive adequate support. Incidentally, I expect that chemistry research will benefit to some extent from the proposed initiative in advanced materials R&D.

Sincerely,

Karl A. Erb
Associate Director for
Physical Sciences and Engineering

cc: Dr. D.A. Bromley

Dr. Ronald Breslow
Department of Chemistry
Columbia University
New York, NY 10027-6948

2516

Columbia University
Department of Chemistry
New York, N.Y. 10027-6948

RECEIVED
92 JUL 21 AM 8:04
OSTP
MAIL ROOM

RONALD BRESLOW
S.L. Mitchill Professor of Chemistry

566 Chandler Laboratory
(212) 854-2170

July 6, 1992

Dr. D. Allan Bromley
The White House
Washington D.C.

Dear Allan:

Thanks for sending me the President's Science and Technology Report and Outlook. It is a very nice document, and I hope that it does some good. However, let me make some pariochial remarks.

There is a danger that fascination with the new may lead to a lack of emphasis on that which is old and established, but still important. My field of chemistry suffers to some extent from that problem. It is a very old field, although what is being done in it now is quite new and exciting. Chemistry plays a central role in some of our most important industries, specifically but not exclusively the chemical industry and the pharmaceutical industry. There is still a great demand for trained chemists by the American companies involved in these areas, companies which also account for significant trade surpluses for the U. S. It is a field of science in which the U. S. is still a leader.

Maybe none of this needs to be said. However, our scientific and industrial strength in these areas critically depends on there being adequate support for research and training in chemistry. I hope that the natural tendency to look for the most recent trendy areas of science will not lead to neglect of fields, such as chemistry, whose newest aspects are quite revolutionary even though their history is extensive.

With best regards,

Sincerely,

"Document Control"

TYPE: INFORMATION DOCUMENT NUMBER: 9207866
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS

****

FROM: YUREK, Gregory J.: AMERICAN SUPERCONDUCTOR CORPORATION

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 07/02/92

SUBJECT: HE IS FORWARDING THEIR ANNUAL REPORT.

****

DIRECTORATE ASSIGNED:

STAFF ASSIGNED:

ACTION REQUIRED:

STAFF ACTION:

****

SENDER'S DUE DATE:

OSTP DUE DATE:

STAFF DUE DATE

DATE COMPLETED:

DATE COMPLETED/DEPT:

****

COPIES TO: D. Allan Bromley
Karl Erb

****

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE: EXT:

REMARKS:

OSTP RECEIVED: 07/15/92 DEPT RECEIVED:
FILE: P-PHYSICAL SCIENCES

CENTRAL FILES:

7866

American Superconductor CORPORATION

149 Grove Street
Watertown, MA 02172
(617) 923-1122
(617) 923-0020 Fax

July 2, 1992

Dr. Bromley
EXECUTIVE OFFICE
17th Street and Penn. Avenue, N.W.
Washington, DC 20506

Dear Dr. Bromley:

I am pleased to provide you with American Superconductor Corporation's first annual report, illustrating our strategy of concurrent technology, manufacturing, marketing and applications development.

Accomplishments in each of these areas during the past year have enabled American Superconductor to develop an aggressive business plan for the next fiscal year. We intend to build upon our achievements as we take a step closer to the goal of integrating superconductors into the advanced electric power applications of tomorrow.

We are proud to share with you our view of American Superconductor and our significant contributions toward the important field of superconductivity.

Sincerely,

Gregory J. Yurek
President and Chief Executive Officer

American Superconductor Corporation

1992 Annual Report

"Document Control"

TYPE: INFORMATION DOCUMENT NUMBER: 9202604
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS

****

FROM: CANTLON, JOHN:NUCLEAR WASTE REVIEW BOARD

TO: DR. D.A. BROMLEY

DATE OF CORRESPONDENCE: 07/02/92

SUBJECT: NOTICE THAT HE HAS ASKED FRANK PRESS TO TAKE NECESSARY ACTION TO FILL THE VACANCY WITH NWPAA AND HE WOULD APPRECIATE ANY ASSISTANCE YOU MIGHT BE ABLE TO OFFER TO EXPEDITE THE APPOINTMENT PROCESS.

****

DIRECTORATE ASSIGNED:

STAFF ASSIGNED:

ACTION REQUIRED:

STAFF ACTION:

****

SENDER'S DUE DATE:

OSTP DUE DATE:

STAFF DUE DATE

DATE COMPLETED:

DATE COMPLETED/DEPT:

****

COPIES TO: D. Allan Bromley
PHYSICAL SCIENCES
LIFE SCIENCES

****

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE: EXT:

REMARKS:

OSTP RECEIVED: 07/15/92 DEPT RECEIVED:

FILE: P-PS-NUCLEAR WASTE

CENTRAL FILES:

Z604

UNITED STATES
NUCLEAR WASTE TECHNICAL REVIEW BOARD
1100 Wilson Boulevard, Suite 910
Arlington, VA 22209

RECEIVED
92 JUL 15 A10:23
OSTP
MAIL ROOM

July 2, 1992

Dr. D. Allan Bromley
Science Advisor to the President
Old Executive Office Building, Room 360
Washington, DC 20500

Dear ~~Dr. Bromley:~~ Allan

In the fall of 1991, the Chairman of the Nuclear Waste Technical Review Board (the Board) sent you a letter requesting your assistance in filling a position on the Board that had been vacated through the resignation of one of our members. Since then, through the much appreciated efforts of the White House Presidential Personnel Office, two new appointments and three reappointments have been made to the Board, bringing Board membership to ten of a possible eleven members. However, we still do not have a member on the Board with expertise in the areas of radiobiology and health physics. As the Board's recently appointed Chairman, I would like to ask for your assistance in filling this important position.

In its 1987 Nuclear Waste Policy Amendments Act (NWPAA), Congress mandated the creation of the Board to evaluate the technical and scientific validity of the Department of Energy's (DOE) program to manage the disposal of civilian spent fuel and defense high-level radioactive waste. The NWPAA specifies that Board members be appointed by the President from nominations made by the National Academy of Sciences (NAS).

Enclosed is a copy of a letter I recently sent to Dr. Frank Press, President of the NAS. I have asked Dr. Press to take the necessary actions to fill this vacancy.

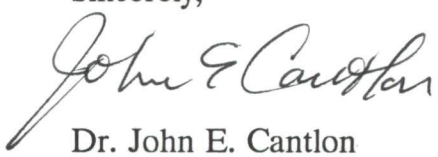
I would greatly appreciate any assistance you may be able to offer to expedite the appointment process. I have requested the same from Ms. Constance Horner, Director of Presidential Personnel, Executive Office of the President, and have forwarded her a

Telephone: 703-235-4473 Fax: 703-235-4495

copy of my letter to Dr. Press along with a summary of those qualifications required of nominees for appointments to the Board.

Thank you for your assistance in this matter.

Sincerely,



Dr. John E. Cantlon
Chairman

Enclosures

Withdrawal/Redaction Sheet
(George Bush Library)

Document No. and Type	Subject/Title of Document	Date	Restriction	Class.
01. Letter w/ attachment	To: Allan Bromley From: Harold Agnew Re: Rebuttal to NRC report on nuclear power (3 pp.)	6/26/92	(b)(1)	

Collection:

Record Group: Bush Presidential Records
Office: Science and Technology Policy, Office of (OSTP)
Series: Bromley, D. Allan, Files
Subseries: General Science Files
WHORM Cat.:
File Location: Physical Sciences: General (1) [6 of 7] [1992]

Date Closed:	3/22/2010	**OA/ID Number:**	62042-006
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

"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9202508
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS

****

FROM: WESTPHAL, Klaus W.: UNIVERSITY OF WISCONSIN

JUL 21 1992

TO: DR. D.A. BROMLEY

DATE OF CORRESPONDENCE: 06/25/92

SUBJECT: HE IS WRITING DEMANDING THE RETURN OF THE SKELETAL REMAINS OF THE TYRANNOSAURUS REX THAT WERE SEIZED FROM THE BLACK HILLS INSTITUTE IN SOUTH DAKOTA.

****

DIRECTORATE ASSIGNED: PHYSICAL SCIENCES

STAFF ASSIGNED: Dave Cranmer

ACTION REQUIRED: AS NECESSARY

STAFF ACTION:

****

SENDER'S DUE DATE:

OSTP DUE DATE: 08/04/92

STAFF DUE DATE

DATE COMPLETED:

DATE COMPLETED/DEPT: 8/10/92

****

COPIES TO: D. Allan Bromley

****

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE: EXT:

REMARKS: D.C. responded per KE.

OSTP RECEIVED: 07/21/92 DEPT RECEIVED:

FILE: P-DAB-PHYSICAL SCIENCES

CENTRAL FILES:

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

August 10, 1992

Dear Professor Westphal:

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

Sincerely yours,

David C. Cranmer
Fellow

Professor Klaus Westphal
University of Wisconsin-Madison
Department of Geology and Geophysics
Lewis G. Weeks Hall
1215 W. Dayton Street
Madison, WI 53706

2508

GEOLOGY MUSEUM

UNIVERSITY OF WISCONSIN—MADISON

Department of Geology and Geophysics

Lewis G. Weeks Hall
1215 W. Dayton Street
Madison, Wisconsin 53706

Museum Office: 608 262-2399
Tour Information: 608 262-1412

RECEIVED
92 JUN 21 A10:03

June 25, 1992

OSTP
MAIL ROOM

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

Dear Mr. Bromley:

I am writing to you to strongly protest the seizure of the Tyrannosaurus rex skeleton from the Black Hills Institute of Geological Research in Hill City, South Dakota. I have just recently returned from Europe where this affair has produced some rather unfavorable headlines. The Black Hills Institute is a most reputable enterprise with the highest degree of integrity and a world-wide reputation for its expert recovery and preservation of invertebrate and vertebrate fossils. Its collections are always open to scientists for study, and it has been recognized as an official repository for published type specimens. Recently, the Institute's Museum of Natural History has been awarded non-profit status as an institution benefitting the general public.

The heavy-handed seizure of this important specimen has shocked the scientific community and raises great concern, as transport and improper storage have undoubtedly resulted in irreversible damage to the skeleton, and its prolonged storage in moist plaster bandages will inevitably result in the slow but steady decay of the bones. I, therefore, urge that the T. rex be immediately returned to the Black Hills Institute in order to prevent further damage to the skeleton, and that ways be found to allow for the final preparation and subsequent display of the skeleton at the Black Hills Museum of Natural History, in the interest of science and the American public.

Yours sincerely,

Klaus Westphal

Dr. Klaus W. Westphal
Director of the Geology Museum
Board of Directors, U.W. Natural
History Museums Council

KWW/djd

"Document Control"

TYPE: INFORMATION DOCUMENT NUMBER: 9202283
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS

****

FROM: BLANN, Marshall: LAWRENCE LIVERMORE NATIONAL LABORATORY

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 06/15/92

SUBJECT: CONCERN ABOUT PLANS TO CLOSE LAMPF

****

DIRECTORATE ASSIGNED: STAFF ASSIGNED:

ACTION REQUIRED: STAFF ACTION:

****

SENDER'S DUE DATE:

OSTP DUE DATE: STAFF DUE DATE
DATE COMPLETED: DATE COMPLETED/DEPT:

****

COPIES TO: PHYSICAL SCIENCES
D. Allan Bromley

****

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

REMARKS:

OSTP RECEIVED: 06/24/92 DEPT RECEIVED:
FILE: P-PHYSICAL SCIENCES

CENTRAL FILES:

Withdrawal/Redaction Sheet
(George Bush Library)

Document No. and Type	Subject/Title of Document	Date	Restriction	Class.
02. Letter	To: Allan Bromley From: Marshall Blann Re: Plans to close LAMPF (2 pp.)	6/15/92	(b)(1)	

Collection:

Record Group: Bush Presidential Records
Office: Science and Technology Policy, Office of (OSTP)
Series: Bromley, D. Allan, Files
Subseries: General Science Files
WHORM Cat.:
File Location: Physical Sciences: General (1) [6 of 7] [1992]

Date Closed:	3/22/2010	**OA/ID Number:**	62042-006
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]
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(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

"Document Control"

TYPE: INFORMATION DOCUMENT NUMBER: 9207870
ORIGINATOR: 02 STATUS C DIRECTORATE STATUS
****

FROM: MES, Hans: CENTER FOR RESEARCH IN PARTICLE PHYSICS

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 06/29/92

SUBJECT: HE IS WRITING REGARDING THE RECENT VOTE ON THE SSC FUNDING.

****
DIRECTORATE ASSIGNED: STAFF ASSIGNED:

ACTION REQUIRED: STAFF ACTION:

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

****

COPIES TO: D. Allan Bromley
PHYSICAL SCIENCES
INTERNATIONAL/POLICY

****

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

REMARKS:

OSTP RECEIVED: 07/03/92 DEPT RECEIVED:
FILE: P-PHYSICAL SCIENCES

CENTRAL FILES:

7870

CRPP

Centre for Research in Particle Physics
Centre de Recherches en Physique des Particules

Herzberg Laboratories for Physics
Carleton University
Colonel By Drive
Ottawa, Canada
K1S 5B6

June 29, 1992

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

Dear Dr. Bromley:

I am absolutely flabbergasted at the action taken by the House on the SSC funding. While it might be considered politically amusing and show that even the USA has its hiccups in the system, it is devastating to science in the USA and particle physics in the world if this decision is not reversed.

Even if the decision is reversed, it will undermine the support for the SSC outside of the USA. Canada, in its own way, is in the process of considering support for the SSC accelerator and for the experimental program. Any indication of lack of resolve on the part of the USA to proceed can only damage the case for such support. Thus I hope that this unfortunate decision will be reversed promptly and decisively.

Info
cc: Ratchford
DAB
Erb

Yours sincerely,

HMes

Hans Mes
Director

Telephon
Telefax
Bitnet : ADMIN @ CRPP.CARLETON.CA

"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9202547
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS

****

FROM: GRIER, James W.: NORTH DAKOTA STATE UNIVERSITY

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 06/08/92

SUBJECT: HE IS WRITING TO ASK DR. BROMLEY'S ASSISTANCE IN RETURNING THE REMAINS OF A TYRANNOSAURUS REX PREVIOUSLY CONFISCATED BY THE FEDERAL GOVERNMENT.

****

DIRECTORATE ASSIGNED: PHYSICAL SCIENCES

STAFF ASSIGNED: Dana C.

ACTION REQUIRED: AS NECESSARY

STAFF ACTION:

****

SENDER'S DUE DATE:

OSTP DUE DATE: 08/06/92 STAFF DUE DATE

DATE COMPLETED: DATE COMPLETED/DEPT: 8/10/92

****

COPIES TO: D. Allan Bromley

****

WHITE HOUSE TRACKING #: CONTACT PERSON:

PHONE: EXT:

REMARKS:

OSTP RECEIVED: 07/23/92 DEPT RECEIVED:

FILE: P-PHYSICAL SCIENCES

CENTRAL FILES:

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

August 10, 1992

Dear Professor Grier:

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

Sincerely yours,

David C. Cranmer
Fellow

Professor James W. Grier
Zoology Department
Stevens Hall
Fargo, ND 58105

NDSU

Zoology Department
Stevens Hall
North Dakota State University
Fargo, North Dakota 58105-5517
(701) 237-7087

2547

RECEIVED 8 June 1992

******* URGENT!!! *******

92 JUN 23 A10 : 29

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

OSTP
MAIL ROOM

Dear Mr. Bromley:

This letter is a request for prompt attention to a scientific and educational emergency that was created by the recent seizure by the FBI of a fossil Tyrannosaurus rex dinosaur skeleton from the Black Hills Institute of Geological Research, Inc., in Hill City, South Dakota. This is a priceless scientific and public treasure that is now in jeopardy because of actions associated with the seizure and the current storage situation.

The skeleton and related scientific papers, notes, and photographs, etc. should be **returned immediately** to the Black Hills Institute where everything will be safe and properly cared for, until the tangled legal issues can be straightened out. I am convinced that no illegal actions were intentionally taken by the Black Hills Institute in the first place and there will be no problem keeping everything safely back at the Institute until matters are settled -- somewhat like releasing a person taken into custody on their personal recognizance.

I cannot comment on the legal matters involved as that is far outside my area of expertise, except that the issue appears to be complex and did not involve any deliberate violation. What I can vouch for is the competence, dedication, sincerity, and interests in science and public education by the Black Hills Institute organization and people. I have known and worked with them personally and professionally for several years. They are internationally recognized experts in fossil work. They have taught and shown me much; and they have tremendously helped my wife develop her interests and expertise with working with fossils, including much time and patience discussing and demonstrating techniques with her and collaborating on some scientific discoveries and publications -- including some new specimens being donated to the Smithsonian Institution. I and colleagues have also taken several university classes from here to the institute to view their fossils, including upper level and graduate students plus workshops involving public school teachers from across the state of North Dakota. The Institute has been most open and helpful to us.

The current situation is absurd, unnecessary, and does not help the image of the federal government much in the eyes of the general public, scientists, or educators. It should be rectified without delay to prevent further deterioration in both the fossil specimen and public relations for the federal government.

Sincerely,

James W. Grier

James W. Grier,
Professor of Zoology

NDSU is an equal opportunity institution.

Mister President George Bush:

Please fund R&D on American made Synthetic ~~Fuel~~ liquid Fuel. Destroying Genocidal Asshole Sadam Hussein's Petroleum Market might be a good idea. Jobs, Jobs, Jobs will be created by a new synthetic liquid fuel chemical industry. Farmer's grain can be used to produce ethanol, creating a new ~~mark~~ big market for American Grain. ~~The Japanese would be at a d~~

Thanks

MAY 24, 1992

Wesley Browning Perkins
3071 WABASH AVENUE
FORT WORTH, TX 76109

Mensa Membership # 1108967

"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9201895
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS

****

FROM: MAC LANE, Saunders: UNIVERSITY OF CHICAGO

TO: DR. D.A. BROMLEY

MAY 27 1992

DATE OF CORRESPONDENCE: 05/18/92

SUBJECT: HE IS WRITING TO SEEK DR. BROMLEY'S ASSISTANCE AND GUIDANCE WITH FUNDING FOR MATHEMATICS RESEARCH.

****

DIRECTORATE ASSIGNED: PHYSICAL SCIENCES

STAFF ASSIGNED:

ACTION REQUIRED: FOR DAB'S SIGNATURE

STAFF ACTION:

****

SENDER'S DUE DATE:

OSTP DUE DATE: 06/09/92

STAFF DUE DATE

DATE COMPLETED:

DATE COMPLETED/DEPT: 10/22/92.

****

COPIES TO: D. Allan Bromley

****

WHITE HOUSE TRACKING #:

CONTACT PERSON:

PHONE: EXT:

REMARKS: OBE.

OSTP RECEIVED: 05/26/92 DEPT RECEIVED:

FILE: P-PHYSICAL SCIENCES

CENTRAL FILES:

1895

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF MATHEMATICS
5734 UNIVERSITY AVENUE
CHICAGO • ILLINOIS 60637
FAX: (312) 702-9787
BITNET: ucmath%zaphod@uchicago.bitnet
INTERNET: ucmath@zaphod.uchicago.edu.

RECEIVED
92 MAY 26 P1:56
OSTP
MAIL ROOM

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

May 18, 1992

Dear Allan,

Thank you for your good letter of May 7th. As you may well imagine, mathematics in the United States is currently in deep trouble. We very much need your advice and help in this matter; let me try to explain why and how.

To begin with, some comments on mathematics itself. The subject may often seem quite technical, but it is really not "esoteric". Mathematics deals with the forms present in the world; they are extracted from experience, studied and developed, and then applied back to the world, often in unexpected ways. This long run effect is what makes mathematics a very powerful part of the whole scientific endeavor. I have actually written a book to present this view of mathematics (Mathematics: Form and function, Springer Verlag, 1985), but I will not now trouble you with all that.

Instead, an example: The idea of a "group" (of symmetries) was disentangled by Galois in 1830 from the study of solutions of polynomial equations; it was gradually and extensively developed ("abstract" group theory). Much later it entered physics, where it now lives vigorously--again as a tool to analyse symmetry. There are also current mathematical developments which have recently yielded a determination of ALL the finite simple groups. The proof of this result runs to several thousands of pages; neither you or I would wish to study all this--but it did grow out of basic research--and generous NSF support.

At the start no one could have forseen the end result; all that could be seen was that high quality math was there (One of the leaders in this work is John Thompson, now in Cambridge England; he was a PhD. student of mine, and first learned group theory in a course I taught in 1956;I then saw that he might do great things.) In brief, Mathematics can be very technical, hard to forsee, but experts can make judgements of quality. Today, group theory makes many other contributions to science

American Mathematics is today the best in the world--thanks to the NSF. The USSR was our only real competitor, but by now a substantial

the past seen how such consultations were vitally necessary--in WWII , when I was director of the APPLIED MATHEMATICS GROUP AT COLUMBIA. There, after some initial failure, I succeeded in persuading some expert "pure' mathematicians (Hassler Whitney is an example) to talk with the actual parties involved in the then uses of airborn fire control. The results were very good.

The effective uses of mathematics depend on real cross-disciplinary collaboration. This is a slow process, and not one encouraged by the present quite formal arrangements for allocations at the NSF.

These seem to be basic problems, not addresed in the present plans. We need better ways to meet the whole situation, so that quality will still be the decisive point in judging mathematics proposals at the NSF

The present situation, without help, is really a disaster. Already now, there are excellent NSF proposals in mathematics which are not funded. In my view, the present is the worst situation for the mathematics community in 50 years. (An exact 50: in !942, V. Bush and J. B. Conant discouraged mathematical cooperation in the then "War effort".)

The complexities of the present case surpass my ideas. We much need your advice as to effective arrangements to assure that judgements of support are based squarely on quality. I would be happy if you could discuss this issue with Walter Massey, perhaps giving him a copy of this letter. If it seems appropriate, I would be glad to come to Washington for consultations.

Cordially Yours,

Saunders Mac Lane

Saunders Mac Lane

P.S. My office phone is (312) 702 7330; home (312) 363-0099.

"Document Control"

TYPE: ACTION DOCUMENT NUMBER: 9202027
ORIGINATOR: 02 STATUS I DIRECTORATE STATUS
****

FROM: FINNERTY, Michael P.

JUN 4 1992

TO: DR. D.A. BROMLEY

DATE OF
CORRESPONDENCE: 05/14/92

SUBJECT: HE IS FORWARDING MATERIAL FOR DR. BROMLEY TO REVIEW REGARDING A SYMPOSIUM ON A NATIONAL PULSED NEUTRON SOURCE.

****

DIRECTORATE ASSIGNED: PHYSICAL SCIENCES
STAFF ASSIGNED:

ACTION REQUIRED: AS NECESSARY
STAFF ACTION:

****

SENDER'S DUE DATE:
OSTP DUE DATE: 06/17/92
STAFF DUE DATE
DATE COMPLETED:
DATE COMPLETED/DEPT: 6/8/92

****

COPIES TO: D. Allan Bromley

****

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

REMARKS: Dear Mr Finnerty,

Thank you for your letter to Dr Bromley concerning your concept -- FRAC -- for a linear accelerator, and its possible application as the proton accelerator component of an intense pulsed neutron source. We in OSTP do not conduct reviews of detailed technical reviews of new accelerator concepts, and thus I am unable to comment further on your letter. The technical merits of your concept must be evaluated by scientists with detailed experience in related areas, and I noted that you have written to possible I wish you well in your endeavors.

OSTP RECEIVED: 06/03/92 DEPT RECEIVED:
FILE: P-PHYSICAL SCIENCES
CENTRAL FILES:

2027

RECEIVED
92 JUN 3 A10:37
OSTP
MAIL ROOM

Michael P. Finerty
Finerty Consulting
APDO # 2109
Zapopan, PC 45101
Jalisco, MEXICO

Dr. D. Allan Bromley
Scientific Advisor to the President
The White House
1600 Pennsylvania Ave.
Washington, DC
USA

14 May 1992

Dear Dr. Bromley,

Please review the enclosed matterials. If you believe that a symposium on a National Pulsed Neutron Source is in the best interests of Science, Medicine and the national interest, Please communicate your support to: Dr. Michael A. Cussanovich, Vice President, Research, University of Arizona, Tucson ARIZ 85721 and to Dr. Cassidy, Head, Department of Radiation Oncology, Arizona Health Science Center, University of Arizona, Tucson, ARIZ 85721.

Sincerely yours,

Michael P. Finerty

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, MEXICO

To whom it may consern
Re: Tlac and Frac accelerators and the FPPNS

I became interested in linac (linear accelerator) design while visiting the Lawrence Hall of Science in Berkeley, California in the early 1970's. Finding that I had time on my hands in 1978, I proposed to the Surgical Biology Department of the Arizona Health Sciences Center in Tucson a superconducting design of an Alverez linac for use in Cancer Therapy, using the linac to irradiate a tungsten target to produce gamma rays. At that time, I had in mind the Tuned Linear Accelerator design, but was too disturbed to solve the velocity problem left by Albert Einstein with his Relativity, the special and general theories.

In 1986, by chance I happened to hear a lecture on food irradiation given to the Institute of Food Technology in a lecture at LSU (Louisiana State University). As my wife, Meggane Wiseman Finerty, was expecting a baby and as I, suffering from a disability induced by Army service, was expected to be the primary care giver, I found myself with time on my hands to pursue the problem of the TLAC (Tuned Linear Accelerator).

By mid-October, I had a general schematic of the electronic configuration worked out: all the cavities were to be of the same length, in order to avoid the "Beat frequency" problem, which all but cripples the Alvarez design. The gaps between cavities were to be capped by perforated end plates. There was to be a half wavelength (of the exciting radio frequency radiation applied to the end plates) connection between adjacent end plates at a single gap. The excitors were to be syncronized by using an integer mulptiple of the wavelength wire between grids of the excitors (modulators) and the wire between the excitor plate and the end plates was to be varied (hardwired delay) so that a pulse of charged particles coming down the cavity chain would meet a charge arriving at the leading end plate simultaneously. The result of this design was that a TLAC would come into sync several orders of mamagnitude per second oftener than an Alverez accelerator.

The only difficult part was calculation the length of wire needed at each gap for the delay and to this point, Einstein was of no help. Elemental analysis later showed that the formula that he gave in chapter 15 of Relativity, the special and general theories applied to Bosons, not Fermions, and that the case of Fermions was only alluded to in passing. In exasperation, I solved the Newton Lorentz (found by substituting the Lorentz mass in the Newton Kinetic Energy Equation) formulation first. It

proved to be a quartic, quadratic in v squared. Realising that the particle in a accelerator has only three defining characteristics for the purposes of calculation (ie, rest energy, kinetic energy and charge) I was quickly able to formulate a program in Basic that would calculate the delay by noting (c/v*lambda) gives the length necessary (neglecting the medium in which electricity travels.)

At that point I went to the Patent Office in Washington, where Meg's brother, Tom Wiseman, was a senior Patent Examiner, and went to work. Consulting with the Particle beam experts there, I concluded that the work was new.

A friend in Baton Rouge, David Cassell, had a father working in personnel at Lawrence Livermore National Laboratory. The father, Alfred Cassell, was looking for Mechanical Engineers, of which I am not one, when he visited for the cerminoy commerating David's Doctorate in Geology. After talking with him for some time both as a guest in my house and at David's house, I gave him the little I had written up on the subject, including the program used to calculate excitor wire length for a hypothetical accelerator. As this was my last copy of the manuscript, I asked Alfred to return it when he had shown it to a physicist at LLNL.

I waited approximately three months for a reply. Then one day I found in my mail an envelope from LLNL. Inside I found a note from Al, saying, "I practictically had to wrestle with my physicist friend to get this back for you! AL." Within two months Science magazine was full of news about the new linear accelerators that "are almost as good as synchrotrons."

I did not wait for the articles to appear to send a Xerox to Al for his physicist friend. I had mentioned possible Einstinian solutions to Al durring his visit. Within 2 weeks, I had worked out a "pseudo-Einstinian" solution (found by subtracting out the rest energy from Einstein's binomial expansion of the "Kinetic Energy expression.") And I determined that it was the same as the Einstein one when one started counting the Einstein Energy from Rest energy upto Kinetic Energy, as demonstrated by two comupter programs. I sent the results to Al, care of his Freemont California address, as I did not want currious eyes intercepting my message.

At this time I turned my attention to the problem of accelerating Cations, having designed a TLAC of 300 MHz and a cavity lenght of 95 cm (5 cm gap.) I found to my surprise that the TLAC required 12.48 meter cavities and a 48 MHz excitor frequency for proper acceleration in the critical first gaps of the accelerator. The heavier the ion, the longer the cavity and the lower the excitor frequency. But, something struck me: using the TLAC as an injector, one could fill the ring of the "Super conducting Super colider" with bunches of protons every few meters instead of just two counter-ciruclating bunches interacting every now and them. (This observation has made it necessary to design a whole new series of detectors for the SSC.) I sent my

analysis to Al.

While waiting for a reply (which never came), I set about solving the TLAC problem for any ion at any state of ionization. This accomplished, I sent my program, IONS.BAS to Al, again at his Fremont California address.

The entire time that I worked on this problem I was taking Loxitane for a service connected psychosis. Every time I ran into a road block, I dropped my dosage by 5 mg. The following day I was useless, but starting from the second day and continuing for a week, I had the experience of "psychic energizerization" as previously described by Freud for Cocaine. Eventually this caught up with me, and rather than seek a patent as I had planned, I had to leave my daughter in care of a friend and seek psychaitric help in Tucson.

The problem with the TLAC for heavy ions is that the cavities become unweildy and long. In Tucson 1988, I solved this problem with the Fractional Wavelength Tuned Linear Accelerator or FRAC. After one false start, it proved simple: one merely had to change the excitor lenghts for shorter cavities. I sent out copies of the solution and waited. This time, I sent copies to Art Robinson at the ALS as well and to Hellen Edwards at the SSC. When Hellen could make no progress with the management of the SSC over injector design, she resigned.

In the meantime, Congress appopriated money to start construction of the Relativistic Heavy Ion Collider at Brookhaven and someone published my idea of coliding piggybacked neutrons at the SSC by colliding deuterons and triterons as well as proteum. Fine and good: That is all history.

More recently, I have been promoting a Frac Pumped Pulsed Neutron Source, using a 800 MeV FRAC and a Uranium (238) or tungstun (W) target for cancer research, Accelerator Transmutation of wastes (ATW) and as a high flux neutron source for testing components of the magnetic confinement controled fusion experiments. It will cost around $500,000,000 and will stretch two miles across the desert.

In October of 1990, Scientific American published an article on Boron neutron capture and cancer therapy. The low thruput of existing pulsed. neutron sources (50 to 60 pulses a second) is due almost entirely to the ramp up time of the syncrotron booster used to reach energies with good spallation characteristics in the available target materials. The answer is a FRAC that comes into synch 50,000,000 times a second for protons and has no ramp up time at all. Obviously if all the heat of spallation is retained by the target, we can expect an explosion of some magnitude, if the thing is run continuously; however, as for all the experiments mentioned above a 100 fold over current increase is desired, I am quite sure a FRAC is the way to go.

The problem with Boron Neutron Capture Therapy for Cancer is nolonger the lack of a suitable design. The most pressing problem is cancer specific boron compounds localizing themselves in tumorous tissue and staying put. At the very least boron injection in a procaine doped vehicle can be used in inoperable brain tumors with the device mentioned. If boron can be tagged onto fetal antigen antibodies so as not to destroy the specificity and activity of those molecules, we may finally have a treatment for deceminated cancers of the liver and bone. For my money, it is worth a chance. It will not be my highest priced invention but $500,000,000 is nothing to sniff at.

Sincerely yours,

Mike Finerty

Guadalajara, May 11,1992

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, MEXICO

Dr. Cassidy
Head, Department of Radiation Oncology
Arizona Health Sciences Center
University of Arizona
Tucson, ARIZ 85721 USA

Dear Dr. Cassidy,

Dr. Tim Hunter of the Radiology Department of The Arizona Health Sciences Center (and former president of the Tucson Ameteur Astronomers Association) suggested that I get in touch with you.

I design Linear Accelerators as a hobby. Recently, several articles in Science and Scientific American have called for a better neutron source. For this reason, I think it is time for a symposium on a "National Pulsed Neutron Source, its Design and Uses."

The Linacs, TLACs and FRACs, that I design are high thruput devices. While they produce particles of the same energy as a comperable Alverez linac, they are high flux devices, producing many more particles per second than an Alvarez linac because they have no "beat frequency."

Recent advances at Ohio State University in the treatment of cancer by "Boron Neutron Capture Therapy" suggest that surgury assisted by this particular kind of radiation therapy lengthens lives (see Sc Am 1990.) I talked with Dr. Klaus Brendel of the Pharmacology Department of the Arizona Health Sciences Center about Boron drugs in use for this purpose. Apparently the Japaneese have produced a Buckyball type molecule to attach to various haptors to treat cancer.

I have kept Dr. Douglas Donahue, former head of the Physics Department, and Dr. Norval A. Sinclair, former acting head of the Department of Microbiology and Immunology, of the University of Arizona current on the status of my designs, particularly of the FRAC (FRACtional Wavelenght Tuned Linear Accelerator) which I believe would make a really beautiful pulsed-neutron Proton source. As the desired fluxes of protons are only 2 orders of magnitude greater than those available from an Alvarez linac, I believe that the FRAC design is the most desirable for a National Pulsed Neutron Source, having a theoretical maxinmmum of 6 orders of magnitude over current plsed neutron sources. (See Contemporary Physics two or three years ago.)

I am therefore taking the liberty of advis-

ing several people of the desirability of a Symposium on pulsed neutron sources and asking them to get in touch with you and Dr. Michael A Cussanovich, Vice President in charge of Research at the UofA. Due to finantial constriants, I will be here in Mexico until 30 August 1992. I suggest that the first week in October would be a good time to hold the meeting. I am sure that Drs. Sinclair, Brendel, Donahue and Cussanovich could get together with you to discuss meeting and arrange for the setting up of a comittee to look into it.

To me, it would be a highly desirable outcome if a National Pulsed Neutron Source were to be set up near Tucson under the direction of the University of Arizona. Tucson needs the jobs that it would provide and Tucson should be given first shot at "Desertron II," which ,may in the end prove more useful than Desertron I (the SSC) which wound up outside of Dallas.

Sincerely yours,

Michael P. Finerty

Zapopan, May 13, 1992

List of recipients of Proposal for a Symposium on the Subject of

National Pulsed Neutron Source FPPSS

Drs: Cassidy, Radiation Oncology UofA
Klaus Brendel, Pharmacology, UofA
Norval A Sinclair, Microbiology and Immunology, UofA
Douglas Donahue, Pysics, UofA

Vice President, Michael A. Cussanovich, Research, UofA

Dr. D. Allen Bromley, Scientific Advisor to the President,
The White House, Washington, D.C.

Dr. James Watkins, Secretary of Energy, Energy Department, Washington, DC

Director, Lawrence Livermore National Laboratory, Livermore CA

Director, Ronald Reagan National Laboratory (SSC), Dallas, Texas

Director, Brookhaven National Laboratory, Brookhaven, NY

Milos V. Chvapil, Surgical Biology, UofA
Tim Hunter, Radiology, UofA.

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, Mexico

Dr. Douglass Donahue
Physics Department
University of Arizona
Tucson, ARIZ 85721
USA

Dear Douglass,

On considering how to proceed on the National Pulsed Neutron Source, I decided to ask Dr. Cassidy to throw a symposium. I gave him your name as a possible warm body for the steering committee. A FFPNS would give the UofA a leg up in Physics and Engineering as well as in Medicine.

On the physics side, I am volunteering to give a short talk on FRAC and TLAC design, including deriving on a blackboard the relativistic velocity of bosons and fermions, something that I have searced for unsucessfully in the literature. As you may well appreciate, knowing how fast a particle is going is the first step in figuring out how best to accelerate it.

Things go well here. Mom is off visiting my sister in Nashville. When she returns, I will go to the mountains where I have a couple of water projects and two baptisms to attend (I am to be Godfather to a couple of Huichol kids.)

Anyway, If you can find the time and believe that a symposium is in the best interests of your department and Science in general, please give Drs. Cassidy and Cussanovich a call and voice your support.

My best to you, Bea, Patsy, Paul and Ben,

Mike

Guadalajara Phone: 0115236-332109

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, Mexico

Dr. Norval A. Sinclair
Department of Microbiology and Immunology
University of Arizona
Tucson, ARIZ 85721
USA

Dear Dr. Sinclair,

Please review the enclosed matterials and contact Dr. Cassidy and Dr. Cussanovich if you think that a symposium at this time is in the best interests of Science and Medicine. I have given Dr. Cassidy your name as a possible body for the steering committee.

I imagine that if the symposium takes place it will be necessary to edit the proceedings. Would you be willing to help in this regard?

Immunology comes into play in that there have been attempts to attach boron molecules to tumor specific antibodies for irradiation with epithermal neutrons. The short range of the alpha particle radiation so produced is adequate to kill tumor tissue but to leave sourounding tisues intact. Unfortuneately, so far, the boron compounds appear to bind also to the active site on the antibody (the variable reigion on the arms), so that the specificity of the antibody is lost. I am sure that this problem is not insurmountable and that a non-specificity-blocking chemical reaction will be found to attach boron to these molecules, given enough time and scientists.

Anyway, the symposium will be the fruits of my labors on Linacs. I hope to see you in September.

Mike

Guadalajara phone: 0115236-332109

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, MEXICO

Dr. Klaus Brendel
Department of Pharmacology
Arizona Health Sciences Center
University of Arizona
Tucson, ARIZ 85721
USA

Dear Klaus,

I think that there is merit to your suggestion of modifying the SSC injector to make a FPPNS; however, there is so much research to be done using a dedicated source that I am suggesting a dedicated facility in the desert near Tucson.

If you would be willing to serve on a committee setting up a symposium on this matter, Please call Dr. Cassidy in Radiation Oncology and volunteer.

If you would be interested in giving a paper on "the Pharmacology of Boron compounds for use in Epithermal Neutron Therapy," or be interested in helping to edit the proceedings of the symposium, please also volunteer this information.

I hope to see you in September, keep well

Mike

Phone in Guadalajara 0115236-332109

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, MEXICO

Dr. Michael A. Cussanovitch
Vice President, Research
University of Arizona
Tucson, ARIZ 85721
USA

May 14, 1992

Dear Dr. Cussanovitch:

Please be advised that the University of Arizona is proposed as a location for a symposium on "The National Pulsed Neutron Source," and that I am proposing that the UofA build such a device in the desert near Tucson.

800 MeV neutrons impinging on a U238 or Tungstun (W) target release approximately 26 spallation neutrons at around 10-14 MeV per proton.

Until recently, proton accelerators have been low thruput devices; however, designs now exist (the TLAC for electrons and the FRAC for cations) which make it possible to design and build high thruput linacs, suitable for the purpose of a high flux pulsed neutron sources.

If such a device is built by the University of Arizona with Government funding, there will be a large augmentation of the graduate programs in Immunology, Physics, Chemistry, Radiation Oncology and Pharmacology as well as Nuclear and Mechanical Engineering.

I urge you to take on the task of Chairman of the Steering Committee for the Symposium and Editor in Chief of the Proceedings of the Symposium to be published by the U of A press.

Accelerators of this nature are not cheap and the price on this one may well run a half a billion dollars, when laboratory and clinical plants are included. The research conducted at such a facility would augment programs in controlled fusion, radiation oncology and waste disposal. I would like to see the work done at the UofA, as it is my alma mater.

Sincerely yours,

Michael P. Finerty

Class of 1965

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, MEXICO

Dr. D. Allan Bromley
Scientific Advisor to the President
The White House
1600 Pennsylvania Ave.
Washington, DC
USA

14 May 1992

Dear Dr. Bromley,

Please review the enclosed matterials. If you believe that a symposium on a National Pulsed Neutron Source is in the best interests of Science, Medicine and the national interest, Please communicate your support to: Dr. Michael A. Cussanovich, Vice President, Research, University of Arizona, Tucson ARIZ 85721 and to Dr. Cassidy, Head, Department of Radiation Oncology, Arizona Health Science Center, University of Arizona, Tucson, ARIZ 85721.

Sincerely yours,

Michael P. Finerty

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, MEXICO

Dr. James D. Watkins
Secretary
Department of Energy
Washington, DC
USA

May 14, 1992

Dear Secretary Watkins,

Please review the enclosed matterials regarding a symposium on a National Pulsed Neutron Source. If you find that the proposal is in the best interests of the United States Government, Science and Medicine, please communicate your support to Dr. Michael A. Cussanovich, Vice President, Research, University of Arizona, Tucson, ARIZ 85721 and to Dr. Cassidy, head of the Department of Radiation Oncology at the same University.

A reasonable estimate of the cost of such a venture is a half of a billion dollars, when saleries and laboratory facilities are counted in. I expect that the Congress would expect the Energy Department to take charge of the project, meaning that the project would either go to an existing National Laboratory or that a new National Laboratory would have to be set up outside of Tucson.

Hughes Tool, located in Tucson, has long supplied sohisticated materials to the Airforce, incluiding servicing atomic weapons attendant to the Titan Missle sites surrounding the city. I am sure that with the proper incentives that they could undertake and complete the construction of a FPPNS for the National Pulsed Neutron faciltiy, if asked to do so.

I would have sent this up through channels, but Al Cassell, my contact at LLNL has proven refractory with my last two missives.

Sincerely yours,

Michael P. Finerty MA MA

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, MEXICO

Director
Lawrence Livermore National Laboratory
Livermore, CA
USA

May 14, 1992

Dear Sir,

If after a review of the enclosed matterials, you are of the opinion that a symposium on "A National Pulsed Neurtron Source (FPPNS)" is in the best interests of the USA, Science and Medicine, Please contact Dr. Michael A. Cussanovich, Vice President, Research at the University of Arizona, Tucson (85721) and Dr. Cassidy, Head Radiation Oncology, UofA.

If the 150 man accelerator team that was transferred after I wrote Mr. Cassell, formerly of personnel and when last heard from in Administration at LLNL about the TLAC is still in existance, design of the FPPNS is a suitable task for them.

As your man, Mr. Alfred Cassell, has training in History but not in Physics or Mathematics and has stoped receiving my mail, I suggest the following configuration: a 2.75 meter cavity length, standard, a 25 cm gap, standard, 1 MV excitors operating at a frequency of 50 MHz, a U238 target, raster scanned by superconducting magnets difflecting the beam horizontally and veritcally by at least 1 meter at the target. The target is to be water cooled and tungesten jacketed. Moderation of the neutron beam is to be moderated by water bath and/or carbon block (graphite). The FRAC configuation sent to Mr. Cassell at 48213 Cottonwood, Freemont, CA 94539 will suffice. As the intent was that Mr. Cassell was to communicate my findings to his "physicist friend" at LLNL, all letters from me to him are property of the University of California and may be disposed of as you see fit.

Sincerely yours,

Michael P. Finerty

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, Mexico

Director
Ronaald Reagan National Laboratory
Superconducting Super Collider
Dallas, Texas
USA.

Dear Sir,

The enclosed is for your information.

If on a careful review of the materials contained here in and a careful investigation you are of the oppinion that a dedicated National Pulsed Neutron Source is doable and desirable, please contact Dr. Michael A. Cussanovich, Vice President, Research, at the University of Arizona, Tucson (85716) and Dr Cassidy, Head, Radiation Oncology at the Arizona Health Sciences Center, Tucson, voicing support for a symposium on the matter.

Sincerely yours,

Michael P. Finerty

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, MEXICO

Director
Brookhaven National Laboratory
Brookhaven, NY
USA

May 14, 1992

Dear Sir:

The enclosed is for your information.

I on review and investigation you are convinced that a symposium on a National Pulsed Neutron Source using a FRAC pumped pulsed neutron generator is in the national interest, please contact Dr. Michael A. Cussanovich, Vice President, Research at the University of Arizona in Tucson (87521) and Dr Cassidy, Head of the Department of Radiation Oncology at the Arizona Health Sciences Center run by the same institution.

Sincerely yours,

Michael P. Finerty

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, MEXICO

Dr Tim Hunter
Associate Professor, Radiology
University of Arizona
Tucson, ARIZ 85721

Dear Tim:

Please have Terry send me the adress of the TAAA treasurer so that I can renew my membership.

The enclosed is for your information. If you would like to take part in the symposium, serve on a committee or any thing, call Dr. Cassidy and volonteer.

Hope all is well with you. I should be back in time for the September meeting.

Sincerely yours

Mike Finerty

Michael P. Finerty
Finerty Consulting
APDO # 210
Zapopan, PC 45101
Jalisco, MEXICO

Dr. Milos V. Chvapil
Department of Surgical Biology
University of Arizona
Tucson, ARIZ 85721
USA

14 MAY 1992

Dear Milos,

I followed the various leads that you suggested to no avail. But I thought that you would be interested in this. If you are sufficiently interested the Steering Committee could probably use your aid (if this thing flies) and you might call up Dr. Cassidy and volonteer.

This is a long way from Collagen but the surgical approach augmented by boron-neutron capture radiation therapy (boron (10) releases short range alpha particles (high energy helium nucleii) on irradiation by relatively slow neutrons) has proven useful in the treatment of some neoplasms. Other uses for the machine are testing components for controled fusion experiments and Accelerator Transmutation of Wastes proposed by scientists at Los Alamos.

The excellence of the programs at the U of A Hospital for oncology and cancer treatment suggest that the desert outside of the UofA is the proper place for this device. You are a witness to my priority in accelerator design. So, if you have the time, Please contact Dr. Cassidy and volonteer. We need your brain.

My best to you,

Mike

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

June 8, 1992

Dear Mr. Finerty:

Thank you for your letter to Dr. Bromley concerning your concept--FRAC--for a linear accelerator, and its possible application as the proton accelerator component of an intense pulsed neutron source.

We in the Office of Science and Technology Policy do not conduct detailed technical reviews of new concepts, and thus I am unable to comment further on your letter.

I wish you well in your endeavors.

Sincerely,

Karl A. Erb

Karl A. Erb
Associate Director--Designate
for Physical Sciences and Engineering

Mr. Michael P. Finerty
Finerty Consulting
APDO #210
Zapopan, PC 45101
Jalisco, MEXICO