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U.S. HOUSE OF REPRESENTATIVES
**COMMITTEE ON SCIENCE, SPACE,
AND TECHNOLOGY**

SUITE 2320 RAYBURN HOUSE OFFICE BUILDING
WASHINGTON, DC 20515-6301
(202) 225-6371

May 24, 1993

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RADFORD BYERLY, Jr.
Chief of Staff
MICHAEL RODEMEYER
Chief Counsel
CAROLYN C. GREENFELD
Chief Clerk
DAVID D. CLEMENT
Republican Chief of Staff

The Honorable Albert Gore
Vice President of the United States
The White House
Washington, D.C. 20501

Dear Mr. Vice President:

It is my understanding that you intend to form a commission on sustainability. I applaud that. We must begin addressing that important subject. I will do what I can to support and advance the conclusions and recommendations of such a commission.

In the interest of supporting the commission in its work I would like to suggest as a member Dr. Radford Byerly who is just now leaving the post of Chief of Staff of this Committee to be the first Director of the W. O. Roberts Institute and Vice President of the University Corporation for Atmospheric Research in Boulder, Colorado. I am sure you remember Rad from your days on the Committee. His resume is attached.

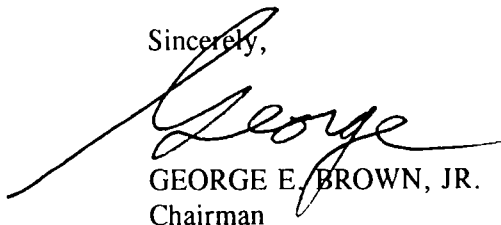
Rad has had a long career in science policy, with emphasis on the social importance of science. Much of his work has involved environmental matters from EPA research to global climate change. In his new job he will be working on many of the same issues but will be able to give them more consistent consideration. I particularly want to point out that he has family roots (as well as experience) in the oil business and in agriculture and ranching and that these give him a perspective not often found in the science policy community.

I believe you will find that many others -- such as Jack Gibbons and Tim Wirth -- will agree with my assessment of Dr. Byerly's abilities.

During the recent campaign Dr. Byerly supported your ticket. He made substantial donations to Clinton/Gore and to the DNC. He and his wife formed a Rapid Response Team and worked the polls on election day. Since the election he has worked with White House staff to assist a smooth and effective start to your Administration.

If I can provide more information please do not hesitate to call me. Thank you for your consideration.

Sincerely,



GEORGE E. BROWN, JR.
Chairman

Resume Cover Sheet

RADFORD BYERLY, JR.

2320 Rayburn House Office Building
Washington, D.C. 20515
(202) 225-6375

Current Position: Chief of Staff, Committee on Science, Space, and Technology,
U.S. House of Representatives, February 1991 - Present

Past Positions: Director, Center for Space and Geosciences Policy,
University of Colorado at Boulder, June 1987 - February 1991

Professional Staff, Committee on Science and Technology,
U.S. House of Representatives, May 1975 - June 1987

Previous Experience: As a professional has been in carrying out and managing technical programs.
-- National Bureau of Standards (9/69 to 4/75)
-- Northern Research and Engineering Corporation (5/61 to 9/63)

Postdoctoral Fellowship: At the Joint Institute for Laboratory Astrophysics, Boulder, Colorado
(7/67 to 9/69) experimental physics related to the upper atmosphere.

Education: PhD, Physics, Rice University, 1967. Atomic and Molecular Physics.
NSF Fellowship.
BA & MA, Physics, Williams College, 1958 & 1960. Phi Beta Kappa.

Attachments: Listings of: Publications & Theses / Hearings / Reports / Legislation

August 1992

RADFORD BYERLY, JR.
Chief of Staff
Committee on Science, Space, and Technology
U.S. House of Representatives

2320 Rayburn House Office Building
Washington, DC 20515
202/225-6375

6315 Newburn Drive
Bethesda, MD 20816
301/229-1392

**PRESENT POSITION: Chief of Staff, Committee on Science, Space, and Technology
since February 1991.**

Broadly speaking, the Committee has legislative jurisdiction over civilian research and development excluding health and agricultural research. Thus NASA, NSF, DOE, NOAA, NIST, and other agencies fall within its jurisdiction. Its oversight responsibility includes all civilian research and development. Staff assist the Members in carrying out the duties, functions, and responsibilities of the Committee. The job of the Chief of Staff is to manage the staff to ensure the smooth functioning of the Committee. This involves identifying issues; setting work priorities; delegating and assigning responsibilities; budgeting; planning; coordinating activities with other committees and between subcommittees; and assuring compliance with House rules, especially regarding ethics and conflict of interest. Tracking of science and technology and identification of policy issues is required as is the clear formulation of problems and alternative policy responses. This is accomplished in part through consulting with groups and individuals in the Committee's constituency.

The Chief of Staff reports directly to the Committee Chair, but also consults with other Members, especially subcommittee chairs. He is responsible for melding the interests of the Members with those of the Chair in order to plan and accomplish the Committee's legislative and oversight agenda.

The Chief of Staff promotes the Committee politically in Congress and in its constituency, for example, through responding to press inquiries and representing the Committee at meetings.

Finally, the Chief of Staff is responsible for hiring and developing a talented and motivated staff and for working collegially with them to enact the Committee's legislative agenda and to ensure its effective implementation through penetrating oversight.

Accomplishments include: Reorganized and revitalized Committee staff; increased work output and its quality, e.g., House passage of DOE research authorization; defeated two attempts by Appropriations Committee to terminate NASA's Space Station program. Chaired staff task force on Health of Research which led to Committee effort to address problems facing U.S. science. Achieved increased recognition of Committee in the House and in the press.

PREVIOUS POSITIONS:

-- Director, Center for Space and Geosciences Policy, University of Colorado, Boulder, Colorado -- June 1987 to February 1991.

The Center promoted research and teaching in two related areas. First, space policy, which encompasses the legal, political, budgetary, commercial, economic, and international issues arising from man's exploration and use of outer space. For example, large space programs such as the Space Station or a return to the moon, raise many policy and budgetary issues. The second area of interest, geosciences policy, focuses on those policy issues that emerge as we begin to understand the Earth as a closely integrated system, and especially how man's activities change that system. For example, as global climate changes occur due to increased atmospheric carbon dioxide and other gases (the "greenhouse effect"), many socioeconomic impacts will need clarification. In addition, control of greenhouse gas emissions will be difficult due to their strong interaction with economic activity, and control efforts will raise even more policy questions.

Areas of interdisciplinary interest to the Center included the evolving relations between government and private enterprise in space, the performance of space programs in terms of goals and objectives used to justify the programs, economic impacts of climate change, and political institutions needed to respond to relatively rapid but continuing Earth system changes such as climate changes or changes in ocean levels.

As Director, assumed overall responsibility for the operations of the Center and the supervision of its staff, reporting to the Dean of the Graduate School. Specific research responsibilities include: defining policy research projects; stimulating faculty interest in working on such research; securing funding grants and contracts; carrying out certain research projects; and ensuring the quality of work conducted by or through the Center. Also assumed responsibility for developing and teaching space policy courses and stimulating student interest.

Accomplishments included: Establishment of the Center and an ongoing space policy research program with faculty and graduate student involvement. Achieved national recognition as a space policy analyst. Edited *Space Policy Reconsidered* (1988) and *Space Policy Alternatives* (1992, in press). Secured private foundation and NASA grants for research support. Initiated global change policy research program.

-- Professional staff with the Committee on Science and Technology, U.S. House of Representatives, from May 1975 to June 1987.

Duties generally involved policy formulation, drafting and advancing legislation, oversight of agency activities, and investigations.

(1) 7/85 to 6/87. Staff Director, Subcommittee on Space Science and Applications. Reported directly to Subcommittee Chairman, represented him in discussions and negotiations. Was responsible for and supervised work of the Subcommittee staff. Overall responsibility for legislation authorizing NASA's budget and programs (\$8B); formulation of U.S. civilian space policy including policy for private sector activities in space; international space policy. Issues before the Subcommittee included: Investigation of the Shuttle Challenger accident; national space transportation policy after the Challenger accident; NASA Space Station development and operation; commercial use of space; news-gathering from space. Supervised other hearings and report preparations (see attachment).

Accomplishments included 1988 authorization bill for NASA setting budgets and program directions and establishing policy for the pricing of Shuttle launches. Staffed fiscal 1987 NASA authorization through House and Senate passage (it was vetoed); this bill would have established a space council in the White House and set U.S. space transportation policy. Subcommittee visit to the Soviet Union which advanced prospects for increased U.S.-U.S.S.R. scientific cooperation. Promoted U.S. leadership in International Geosphere Biosphere Program.

(2) 9/80 to 7/85. Professional staff, Subcommittee on Space Science and Applications. Responsible for Space Science and Applications activities in NASA. The Applications area included remote sensing from space (e.g., gathering data for mineral prospecting), satellite communications, and studies of the Earth's climate and its impacts on agriculture, shipping, etc. To carry out responsibilities in this area one must understand the relationship between space technology and the area of application, e.g., the institutional, financial, international, and environmental issues involved. Space science includes astronomy and astrophysics, planetary exploration, and life sciences. Must understand the scientific basis for a space mission, the engineering realization of a mission, relations between Congress, the executive branch (i.e., NASA and OMB) and the private sector contractors that build mission spacecraft and instruments.

Accomplishments included: Annual authorizations for NASA space science and space applications programs (over \$1 billion per year). Legislation to guide LANDSAT commercialization. Member of U.S. delegation to United Nations Conference on the Exploration and Peaceful Uses of Outer Space (August 1982; Vienna). Prepared report of Congressional delegation to the Conference. Other hearings and reports (see attachment).

(3) 5/75 to 9/80. Professional staff, Subcommittee on Natural Resources and Environment (or differently named predecessors) responsible for following areas of subcommittee jurisdiction: Environmental Protection Agency research and development; Department of Energy environmental research and development; weather services; weather modification; National Climate Program; and health effects of non-ionizing radiation. Specific areas of responsibility: sulfate air pollution; environmental health research; preliminary work on incorporation of environmental benefits into national economic accounts.

Accomplishments included: Annual authorization bills for Environmental Protection Agency research and development (\$300 million per year) and for environmental research in the Department of Energy (\$200 million per year); National Climate Program Act; amendments to the Clean Air Act relating to protection of the stratospheric ozone layer; research sections of the Resource Conservation and Recovery Act of 1976; conducted and/or supervised significant studies on epidemiology research in EPA and resource recovery from solid waste (see attachment).

With both subcommittees: (a) Work involved a great deal of writing, much of which was to present issues succinctly; (b) Work involved supervision of staff and direction of other supporting activities; e.g., at the Office of Technology Assessment, The General Accounting Office, the Congressional Research Service of the Library of Congress, or the Office of Legislative Counsel.

PREVIOUS EXPERIENCE as a professional has been in carrying out and managing technical programs.

At the National Bureau of Standards held a series of positions of increasing responsibility (9/69 to 4/75):

(1) Assistant to the Director, NBS -- oversaw program planning and policy studies on pollution, voluntary standards, biomedical technology, Federal computer policy; helped revise NBS program structure; trouble-shooting.

(2) Deputy Chief, Fire Technology Division -- in many respects ran Division operations (planning, budgeting, project oversight, personnel). Program ranged from combustion kinetics through building codes and standards to fire-fighting equipment. Important aspect was understanding relation between building materials (and that industry), codes and standards (and the construction industry) and fire losses (and the need for firefighters). Liaison with industry and firefighting community. Represented the Division before various national interest groups such as Firefighters Union, National Fire Protection Association, and the International Association of Fire Chiefs.

(3) Manager of Air Programs -- developed and ran NBS air pollution research program

involving projects in smog chemistry, development of measurement methods and standards, etc. Duties included program planning and oversight, budgeting, liaison with industry, EPA, and other Federal and local agencies, standards community, et al. A major responsibility was matching NBS capabilities with environmental measurement needs such as those required by the Clean Air Act. Three examples: (a) initiated a project which developed gas standards now used by both EPA and auto industry to measure auto emissions; (b) supported measurements of reaction rates critical to understanding both the stratospheric chemistry of the ozone-freon problem and the chemistry of urban "smog"; (c) initiated development of absolute measurement of ozone which is now the basis for calibrating ozone monitoring instruments.

OTHER EXPERIENCE includes: Postdoctoral fellowship at the Joint Institute for Laboratory Astrophysics, Boulder (7/67 to 9/69) doing experimental physics related to the upper atmosphere. Engineer at Northern Research and Engineering Corporation (5/61 to 9/63) developing and using computer models for turbomachinery design. EXXON and Shell research labs -- problems of oilwell drilling. Summer jobs -- oil fields, tanker, ranch, sawmill.

COMMITTEES, etc. Vice Chair, (Chair-elect for 1991-92), Council of Institutions, University Space Research Association; Member, University Seminar on Global Habitability, Columbia University (1984-1987); Member, AIAA Public Policy Committee (1987-90; Chair, Space Subcommittee 1988-89); Member, NASA Advisory Committee on Space Station, NASA Advisory Committee on Space Science and Applications (1988-1991); Member, NAS/NRC Space Studies Board, Task Group on Priorities in Space Research (1989-1991); Editorial Board *Space Policy*; Member, Board of Advisors, *Colorado Journal of International Environmental Law* (1989-1991); Member, Advisory Committee on Space, United Nations Association (1985-1986).

EDUCATION

PhD, Physics, Rice University, 1967. Atomic and Molecular Physics. NSF Fellowship.
BA & MA, Physics, Williams College, 1958 & 1960. Phi Beta Kappa.

SPEAKING

1988-89 Honor Lecturer, Mid-America State Universities Association.

Usually several formal and informal speaking engagements each year.

REFERENCES will be supplied on request.

PUBLICATIONS AND THESES
RADFORD BYERLY, JR.

1. Ph.D. Thesis: Atomic and Molecular Reactions in an Optically Pumped Helium Discharge, Rice University, 1967.
2. Master's Thesis: Diatomic Molecular Spectra: Singly Ionized Nitrogen Molecule. Williams College, 1960.
3. Search for Atom-Atom Interchange in He₂-He Collisions: with G.K. Walters. *Bulletin, American Physical Society*, 12, 1967, 224.
4. Electron Affinities of Negative Ions and Dependence of Photodetachment Cross-sections on Wavelength, with L.M. Branscomb and R. Lelevier, *STP Notes*, ICSU, 5, 1969, 35.
5. Sunlight Photodetachment of O₃⁻, with E.C. Beaty, *Journal of Geophysical Research*, 76, 1971, 4596.
6. Investigation of Products of Tire Wear, with R.L. Raybold, NBS Report 10834, April, 1972.
7. Measures for Air Quality -- Annual Report -- FY 1971, with J.R. McNesby. NBS Technical Note 711, 1972.
8. Fire Prevention and Control Act of 1974 (report to accompany H.R. 11989), U.S. House of Representatives, Report 93-795, 1974 (with others).
9. New Developments in the Measurement of Gaseous Pollutants in Air. *IEEE Transcript on Nuclear Science*, NS-22, 1975, 856.
10. Stratospheric Research and Protection Act of 1975 (report to accompany H.R. 3118), U.S. House of Representatives, Report 94-575, October 28, 1975 (principal author).
11. Solid Waste Research and Development Act of 1976, U.S. House of Representatives, Report 94-1461, September 1, 1976 (principal author).
12. Report on Joint Hearings on the Conduct of the Environmental Protection Agency's "Community Health and Environmental Surveillance System" (CHESS) Studies, Joint Report of the Committee on Science and Technology and the Committee on Interstate and Foreign Commerce, April 9, 1976 (principal author).

13. Report on the Environmental Protection Agency's Research Program with primary emphasis on the Community Health and Environmental Surveillance System (CHESS): An Investigative Report, Serial SS, November 1976* (with others).
14. Ocean Dumping, (Subcommittee on Environment and the Atmosphere) Serial NNN, December, 1976* (principal author).
15. Authorizing Appropriations to the Office of Research and Development, Environmental Protection Agency (report to accompany H.R. 5101), U.S. House of Representatives, Report 95-157, April 1, 1977 (principal author).
16. National Climate Program Act of 1977 (report to accompany H.R. 6669), U.S. House of Representatives, Report 95-266, May 6, 1977 (principal author).
17. Conference report on H.R. 5101, Environmental Protection Agency Research Authorization for Appropriations for Fiscal Year 1978, U.S. House of Representatives, Report 95-722, October 19, 1977 (with others).
18. Authorizing Appropriations for the Office of Research and Development, Environmental Protection Agency (report to accompany H.R. 11302), U.S. House of Representatives, Report 95-985, March 17, 1978 (principal author).
19. Conference report on H.R. 6669, National Climate Program Act, U.S. House of Representatives, Report 95-1439, August 14, 1978 (with others).
20. Conference report on H.R. 11302, Environmental Protection Agency Research Authorization for Appropriations for Fiscal Year 1979, U.S. House of Representatives, Report 95-1593, September 20, 1978 (with others).
21. Summary of Activities (Subcommittee on Environment and the Atmosphere), Serial BBB, December 1978* (with others).
22. Authorizing Fiscal Year 1980 Appropriations to the Office of Research and Development, Environmental Protection Agency (report to accompany H.R. 2676), U.S. House of Representatives, Report 96-58, March 20, 1979 (principal author).
23. Conference report on H.R. 2676, Environmental Protection Agency Research Authorization for Appropriations for Fiscal Year 1980, U.S. House of Representatives, Report 96-611, November 9, 1979 (with others).

* The serial designation refers to reports of the Committee on Science and Technology of the House of Representatives.

24. Research in the Environmental Protection Agency, with G.E. Brown, Jr., *Science*, 211 p. 1385-1390, March 27, 1981.
25. The View from Earth or The Care and Feeding of a Space Program in *The Case for Mars* P.J. Boston, ed., vol. 57 of American Astronautical Society Science and Technology series. American Astronautical Society, 1981.
26. Future Space Programs: 1981: (Subcommittee on Space Science and Applications), Serial Z, May 1982** (principal author).
27. Will Planners Have Data Gathered From Space?, *Planners Roll Call*, VI, No. 7, June 1982.
28. A Congressional View of National Policy Directions in Remote Sensing. *Proceedings of Seventeenth International Symposium on Remote Sensing of Environment*, Environmental Research Institute of Michigan, Ann Arbor, 1983.
29. Report on UNISPACE '82, the United Nations Conference on the Exploration and Peaceful Uses of Outer Space. Report of the Conference. (Subcommittee on Space Science and Applications), Printed in Unispace '82, Report and Hearing, Committee on Science and Technology, 97th Congress, Serial No. 160. July 1984** (principal author).
30. Land Remote-Sensing Commercialization Act of 1984. (Report to accompany H.R. 5155), U.S. House of Representatives, Report 98-647 (with others).
31. The International Geosphere/Biosphere program - 1984. (Subcommittee on Space Science and Applications) Serial B, April 1985** (principal author).
32. Authorizing Appropriations to the National Aeronautics and Space Administration for Fiscal Year 1986 (report to accompany HR 1714), U.S. House of Representatives, Report 99-32 (with others).
33. NASA Authorization Act, 1986, Conference Report U.S. House of Representatives, Report 99-379 (with others).
34. Authorizing Appropriations for Landsat Commercialization. (Report to accompany H.R. 2800) U.S. House of Representatives Report 99-177, June 20, 1985 (with others).
35. The Mississippi Technology Transfer Act of 1985. (Report to accompany H.R. 3235.) U.S. House of Representatives, Report 99-322, October 23, 1985 (principal author).

** The serial designation refers to reports of the Committee on Science and Technology of the U.S. House of Representatives.

36. The Commercial/Industrial Uses of Space in *Beyond Spaceship Earth, Environmental Ethics and the Solar System*, E.C. Hargrove, Editor, Sierra Club Books, San Francisco, 1986.
37. National Aeronautics and Space Administration Authorization Act, 1987 (to accompany HR 5495), U.S. House of Representatives, Report 99-829 (with others).
38. Investigation of the Challenger Accident, U.S. House of Representatives Report 99-1016 (with others).
39. "Decisions on Space Initiatives," in *The Case for Mars III*, vol. 74 of American Astronautical Society Science and Technology series, Univelt, San Diego, 1989.
40. "The Policy Dynamics of Global Change", *Earthquest*, vol. 3, no. 1, Spring 1989.
41. *Space Policy Reconsidered*, editor, Westview Press, Boulder, Colorado, 1989. Includes "Introduction".
42. "Future Directions for Space Policy Research", with R. Brunner, in *Space Policy Reconsidered*, see no. 41.
43. "Not Where, But How Do We Go From Here?", *Ad Astra*, January 1990.
44. "The Space Station Programme", with R. Brunner, *Space Policy*, May 1990.
45. "Data Transmission: An Opportunity for Space Commercialization," *Space Commerce*, vol. 1, no. 2, December 1990.
46. Managing the Federal Investment in Research and Development: A View from Congress, in *Science and Technology Policy Yearbook*, 1991, M.O. Meridith, S.D. Nelson, and A.H. Teich, eds, Committee on Science, Engineering, and Public Policy, American Association for the Advancement of Science, 1991.
47. *Space Policy Alternatives*, editor, Westview Press, Boulder, Colorado, 1992, Includes "Introduction".
48. Chapters in *Space Policy Alternatives*, see no. 47:
 - (a) "Can the United States Conduct a Vigorous Civilian Space Program?"
 - (b) "The Future of the Space Station Program" with R. Brunner and R. Pielke, Jr.
 - (c) "The Space Shuttle Program: 'Performance Versus Promise'", with R. Pielke, Jr.

HEARINGS***

The following hearings were organized by me or under my supervision, and I directed their publication.

Before the Subcommittee on the Environment and the Atmosphere, Committee on Science and Technology, 94th Congress:

Inadvertent Modification of the Upper Atmosphere: R&D Relating to Halocarbons and Ozone Depletion, May/July 1975, Number 24.

R&D Related to Sulfates in the Atmosphere, July 1975, Number 39.

Solid Waste Management and Resource Recovery, April 1976, Number 102.

The Conduct of the EPA's Community Health and Environmental Surveillance Systems (CHESS) Studies, April 1976, Number 109.

Before the Subcommittee on the Environment and the Atmosphere, Committee on Science and Technology, 95th Congress:

1978 Authorization for the Office of Research and Development, Environmental Protection Agency, February/March 1977, Number 15.

NOAA Research Budget for Fiscal Year 1978, March 1977, Number 27.

Environmental Health Research at the National Institutes of Health, March 1977, Number 28

National Climate Program, April 1977, Number 29.

Long-Term Environmental Research in the Environmental Protection Agency, June 1977, Number 42.

Environmental Monitoring, September 1977, Number 44.

Environmental Implications of the New Energy Plan, June/July/September 1977, Number 45.

*** The serial designation refers to reports of the Committee on Science and Technology of the House of Representatives.

Special Urban Air Pollution Problems: Denver and Houston, November 1977, Number 52.

Environmental Research at the National Institutes of Health -- Fiscal Year 1979, March 1, 1978, Number 65

Environmental R&D Issues Related to the Interagency Regulatory Group, April 1978, Number 91.

Environmental Monitoring -- II, June/July 1978, Number 93.

1979 Authorization for the Office of Research and Development, EPA, February 1978, Number 99.

EPA Environmental R&D Issues, July/September 1978 Number 119.

Before the Subcommittee on Natural Resources and Environment, Committee on Science and Technology, 96th Congress:

1980 Authorization for the Office of Research and Development, Environmental Protection Agency, February 1979, Number 5.

Implementation of the Climate Act, July 1979, Number 40.

Implementation of the Climate Act, II, November 1979, Number 62.

Research on Health Effects of Non-Ionizing Radiation, July 1979, Number 70.

1981 DOE Authorization: Environment Programs, February 1980, No. 107.

Before the Subcommittee on Space Science and Applications, Committee on Science and Technology, 97th Congress.

Civil Land Remote Sensing Systems, July 1981, Number 40.

Future Space Programs: 1981, September 1981, Number 50.

Space Telescope: 1982, May 1982, Number 99.

UNISPACE '82, July 1982, Number 160.

Before the Subcommittee on Space Science and Applications, Committee on Science and Technology, 98th Congress.

Space Telescope Cost, Schedule and Performance, June 1983, Number 29.

NASA's Five Year Plan, July 1983, Number 38.

Review of Materials Processing in Space, September 1983, Number 42.

The Commercialization of Meteorological and Land Remote-Sensing Satellites, April, June, July, and November 1983, Number 53.

The Land Remote-Sensing Commercialization Act of 1984 -- H.R. 4836 and H.R. 5155, March 1984, Number 74.

Before the Subcommittee on Space Science and Applications, Committee on Science and Technology, 99th Congress.

Landsat Commercialization, June 1985, Number 30.

Space Science: Past, Present, and Future, Number 60.

Space Science and the Space Station, Number 75.

Scientists and Engineers: Supply and Demand, Number 102.

The International Geosphere/Biosphere Program, September 1984, Number 118.

FY 1987 NASA Authorization, February 1986, Number 132.

Before the Subcommittee on Space Science and Applications, Committee on Science and Technology, 100th Congress.

1988 NASA Authorization, Number 35.

REPORTS****

The following reports were prepared under my supervision or with major guidance and input from me (all published by the Committee on Science and Technology).

1. Research and Development Relating to Sulfates in the Atmosphere, Congressional Research Service. 94th Congress, Serial F. June 1975.
2. Readings on Solid Waste Management and Resource Recovery. Congressional Research Service. 94th Congress, Serial Y. April 1976.
3. Review of Research Related to Sulfates in the Atmosphere. Staff report. 94th Congress, Serial AA. April 1976.
4. The Status of Resource Recovery (A report of Site Visits), Congressional Research Service, 95th Congress, Serial LL. August 1978.
5. Civil Land Remote Sensing Systems (Subcommittee on Space Science and Applications) Staff Report. 96th Congress, Serial T. December 1981.
6. Visit to Sweden and the Soviet Union (Subcommittee on Space Science and Applications). 99th Congress, Serial I. October 1985.
7. Space Science: Past, Present and Future (Subcommittee on Space Science and Applications). 99th Congress, Serial O. May 1986.
8. Centaur Cost, Schedule and Performance Review, 99th Congress, Report 99-757.

**** The serial designation refers to reports of the Committee on Science and Technology of the U.S. House of Representatives.

LEGISLATION

Major role in the following legislation:

1. P.L. 94-580, Resource Conservation and Recovery Act of 1976 (Subtitle H).
2. P.L. 95-95, Clean Air Act Amendments of 1977 (Part B of Title I, Ozone Protection).
3. P.L. 95-155, Authorizing Appropriations for Research at the Environmental Protection Agency for FY 1978.
4. P.L. 95-367, National Climate Program Act.
5. P.L. 95-477, Authorizing Appropriations for Research at the Environmental Protection Agency for FY 1979.
6. P.L. 96-229, Authorizing Appropriations for Research at the Environmental Protection Agency for FY 1980.
7. P.L. 97-96, Authorizing Appropriations to the National Aeronautics and Space Administration for research and development, construction of facilities, and research and program management, and for other purposes for 1982.
8. P.L. 97-324, Authorizing Appropriations to the National Aeronautics and Space Administration for research and development, construction of facilities, and research and program management, and for other purposes for 1983.
9. P.L. 98-52, Authorizing Appropriations to the National Aeronautics and Space Administration for research and development, construction of facilities, and research and program management, and for other purposes for 1984.
10. P.L. 98-361, Authorizing Appropriations to the National Aeronautics and Space Administration for Fiscal Year 1985.
11. P.L. 98-365, the Land Remote-Sensing Commercialization Act of 1984.
12. P.L. 99-62, Authorizing Appropriations for Landsat Commercialization.
13. P.L. 99-170, Authorizing Appropriations to the National Aeronautics and Space Administration for fiscal year 1986.
14. P.L. 99-171, The Mississippi Technology Transfer Act of 1985.
15. P.L. 100-107, Authorizing Appropriations to the National Aeronautics and Space Administration for fiscal year 1988.