106TH CONGRESS
2D SESSION

H. R. 4940

IN THE SENATE OF THE UNITED STATES

OCTOBER 25 (legislative day, SEPTEMBER 22), 2000
Received

AN ACT

To designate the museum operated by the Secretary of Energy in Oak Ridge, Tennessee, as the ''American Museum of Science and Energy'', and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

TITLE I—AMERICAN MUSEUM OF SCIENCE AND ENERGY

SEC. 101. DESIGNATION OF AMERICAN MUSEUM OF SCIENCE AND ENERGY.

(a) IN GENERAL.—The Museum—

(1) is designated as the ''American Museum of Science and Energy''; and

(2) shall be the official museum of science and energy of the United States.

(b) REFERENCES.—Any reference in a law, map, regulation, document, paper, or other record of the United States to the Museum is deemed to be a reference to the ''American Museum of Science and Energy''.

(c) PROPERTY OF THE UNITED STATES.—

(1) IN GENERAL.—The name ''American Museum of Science and Energy'' is declared the property of the United States.

(2) INJUNCTION.—Whoever, except as authorized by the Secretary, uses or reproduces the name ''American Museum of Science and Energy'', or a facsimile or simulation of such name in such manner as suggests ''American Museum of Science and Energy'', may be enjoined from such use or reproduction at the suit of the Attorney General upon complaint by the Secretary.

(3) EFFECT ON OTHER RIGHTS.—This subsection shall not be construed to conflict or interfere with established or vested rights.

SEC. 102. AUTHORITY.

To carry out the activities of the Museum, the Secretary may—

(1) accept and dispose of any gift, devise, or bequest of services or property, real or personal, that is—

(A) designated in a written document by the person making the gift, devise, or bequest as intended for the Museum; and

(B) determined by the Secretary to be suitable and beneficial for use by the Museum;

(2) operate a retail outlet on the premises of the Museum for the purpose of selling or distributing items (including mementos, food, educational materials, replicas, and literature) that are—

(A) relevant to the contents of the Museum; and

(B) informative, educational, and tasteful;

(3) collect reasonable fees where feasible and appropriate;

(4) exhibit, perform, display, and publish materials and information of or relating to the Museum in any media or place;

(5) consistent with guidelines approved by the Secretary, lease space on the premises of the Museum at reasonable rates and for uses consistent with such guidelines; and

(6) use the proceeds of activities authorized under this section to pay the costs of the Museum.

SEC. 103. MUSEUM VOLUNTEERS.

(a) AUTHORITY TO USE VOLUNTEERS.—The Secretary may recruit, train, and accept the services of individuals or entities as volunteers for services or activities related to the Museum.

(b) STATUS OF VOLUNTEERS.—

(1) IN GENERAL.—Except as provided in paragraph (2), service by a volunteer under subsection (a) shall not be considered Federal employment.

(2) EXCEPTIONS.—

(A) FEDERAL TORT CLAIMS ACT.—For purposes of chapter 171 of title 28, United States Code, a volunteer under subsection (a) shall be treated as an employee of the government (as defined in section 2671 of that title).

(B) COMPENSATION FOR WORK INJURIES.—For purposes of subchapter I of chapter 81 of title 5, United States Code, a volunteer described in subsection (a) shall be treated as an employee (as defined in section 8101 of title 5, United States Code).

(c) COMPENSATION.—A volunteer under subsection (a) shall serve without pay, but may receive nominal awards and reimbursement for incidental expenses, including expenses for a uniform or transportation in furtherance of Museum activities.

SEC. 104. DEFINITIONS.

For purposes of this title:

(1) MUSEUM.—The term ''Museum'' means the museum operated by the Secretary of Energy and located at 300 South Tulane Avenue in Oak Ridge, Tennessee.

(2) SECRETARY.—The term ''Secretary'' means the Secretary of Energy or a designated representative of the Secretary.

TITLE II—NETWORKING AND INFORMATION TECHNOLOGY

SEC. 201. SHORT TITLE.

This title may be cited as the ''Networking and Information Technology Research and Development Act''.

SEC. 202. FINDINGS.

The Congress makes the following findings:

(1) Information technology will continue to change the way Americans live, learn, and work. The information revolution will improve the workplace and the quality and accessibility of health care and education and make Government more responsible and accessible. It is important that access to information technology be available to all citizens, including elderly Americans and Americans with disabilities.

(2) Information technology is an imperative enabling technology that contributes to scientific disciplines. Major advances in biomedical research, public safety, engineering, and other critical areas depend on further advances in computing and communications.

(3) The United States is the undisputed global leader in information technology.

(4) Information technology is recognized as a catalyst for economic growth and prosperity.

(5) Information technology represents one of the fastest growing sectors of the United States economy, with electronic commerce alone projected to become a trillion-dollar business by 2005.

(6) Businesses producing computers, semiconductors, software, and communications equipment account for one-third of the total growth in the United States economy since 1992.

(7) According to the United States Census Bureau, between 1993 and 1997, the information technology sector grew an average of 12.3 percent per year.

(8) Fundamental research in information technology has enabled the information revolution.

(9) Fundamental research in information technology has contributed to the creation of new industries and new, high-paying jobs.

(10) Our Nation's well-being will depend on the understanding, arising from fundamental research, of the social and economic benefits and problems arising from the increasing pace of information technology transformations.

(11) Scientific and engineering research and the availability of a skilled workforce are critical to continued economic growth driven by information technology.

(12) In 1997, private industry provided most of the funding for research and development in the information technology sector. The information tech-

nology sector now receives, in absolute terms, one-third of all corporate spending on research and development in the United States economy.

(13) The private sector tends to focus its spending on short-term, applied research.

(14) The Federal Government is uniquely positioned to support long-term fundamental research.

(15) Federal applied research in information technology has grown at almost twice the rate of Federal basic research since 1986.

(16) Federal science and engineering programs must increase their emphasis on long-term, high-risk research.

(17) Current Federal programs and support for fundamental research in information technology is inadequate if we are to maintain the Nation's global leadership in information technology.

SEC. 203. AUTHORIZATION OF APPROPRIATIONS.

(a) NATIONAL SCIENCE FOUNDATION.—Section 201(b) of the High-Performance Computing Act of 1991 (15 U.S.C. 5521(b)) is amended—

(1) by striking ''From sums otherwise authorized to be appropriated, there'' and inserting ''There'';

(2) by striking ''1995; and'' and inserting ''1995;''; and

(3) by striking the period at the end and inserting ''; $580,000,000 for fiscal year 2000; $699,300,000 for fiscal year 2001; $728,150,000 for fiscal year 2002; $801,550,000 for fiscal year 2003; and $838,500,000 for fiscal year 2004. Amounts authorized under this subsection shall be the total amounts authorized to the National Science Foundation for a fiscal year for the Program, and shall not be in addition to amounts previously authorized by law for the purposes of the Program.''.

(b) NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.—Section 202(b) of the High-Performance Computing Act of 1991 (15 U.S.C. 5522(b)) is amended—

(1) by striking ''From sums otherwise authorized to be appropriated, there'' and inserting ''There'';

(2) by striking ''1995; and'' and inserting ''1995;''; and

(3) by striking the period at the end and inserting ''; $164,400,000 for fiscal year 2000; $201,000,000 for fiscal year 2001; $208,000,000 for fiscal year 2002; $224,000,000 for fiscal year 2003; and $231,000,000 for fiscal year 2004.''.

(c) DEPARTMENT OF ENERGY.—Section 203(e)(1) of the High-Performance Computing Act of 1991 (15 U.S.C. 5523(e)(1)) is amended—

(1) by striking ''1995; and'' and inserting ''1995;''; and

(2) by striking the period at the end and inserting ''; $119,500,000 for fiscal year 2000; $175,000,000 for fiscal year 2001; $183,000,000 for fiscal year 2002; $193,000,000 for fiscal year 2003; and $203,000,000 for fiscal year 2004.''.

(d) NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.—(1) Section 204(d)(1) of the High-Performance Computing Act of 1991 (15 U.S.C. 5524(d)(1)) is amended—

(A) by striking ''1995; and'' and inserting ''1995;''; and

(B) by striking ''1996; and'' and inserting ''1996; $9,000,000 for fiscal year 2000; $9,500,000 for fiscal year 2001; $10,500,000 for fiscal year 2002; $16,000,000 for fiscal year 2003; and $17,000,000 for fiscal year 2004; and''.

(2) Section 204(d) of the High-Performance Computing Act of 1991 (15 U.S.C. 5524(d)) is amended by striking ''From sums otherwise authorized to be appropriated, there'' and inserting ''There''.

(e) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION.—Section 204(d)(2) of the High-Performance Computing Act of 1991 (15 U.S.C. 5524(d)(2)) is amended—

(1) by striking ''1995; and'' and inserting ''1995;''; and

(2) by striking the period at the end and inserting ''; $13,500,000 for fiscal year 2000; $13,900,000 for fiscal year 2001; $14,300,000 for fiscal year 2002; $14,800,000 for fiscal year 2003; and $15,200,000 for fiscal year 2004.''.

(f) ENVIRONMENTAL PROTECTION AGENCY.—Section 205(b) of the High-Performance Computing Act of 1991 (15 U.S.C. 5525(b)) is amended—

(1) by striking ''From sums otherwise authorized to be appropriated, there'' and inserting ''There'';

(2) by striking ''1995; and'' and inserting ''1995;''; and

(3) by striking the period at the end and inserting ''; $4,200,000 for fiscal year 2000; $4,300,000 for fiscal year 2001; $4,500,000 for fiscal year 2002; $4,600,000 for fiscal year 2003; and $4,700,000 for fiscal year 2004.''.

(g) NATIONAL INSTITUTES OF HEALTH.—Title II of the High-Performance Computing Act of 1991 (15 U.S.C. 5521 et seq.) is amended by inserting after section 205 the following new section:

"SEC. 205A. NATIONAL INSTITUTES OF HEALTH ACTIVITIES.

''(a) GENERAL RESPONSIBILITIES.—As part of the Program described in title I, the National Institutes of Health shall conduct research directed toward the advancement and dissemination of computational techniques and software tools in support of its mission of biomedical and behavioral research.

''(b) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated to the Secretary of Health and Human Services for the purposes of the Program $223,000,000 for fiscal year 2000, $233,000,000 for fiscal year 2001, $242,000,000 for fiscal year 2002, $250,000,000 for fiscal year 2003, and $250,000,000 for fiscal year 2004.''.

SEC. 204. NETWORKING AND INFORMATION TECHNOLOGY RESEARCH AND DEVELOPMENT.

(a) NATIONAL SCIENCE FOUNDATION.—Section 201 of the High-Performance Computing Act of 1991 (15 U.S.C. 5521) is amended by adding at the end the following new subsections:

''(c) NETWORKING AND INFORMATION TECHNOLOGY RESEARCH AND DEVELOPMENT.—(1) Of the amounts authorized under subsection (b), $350,000,000 for fiscal year 2000, $421,000,000 for fiscal year 2001, $442,000,000 for fiscal year 2002, $486,000,000 for fiscal year 2003, and $515,000,000 for fiscal year 2004 shall be available for grants for long-term basic research on networking and information technology, with priority given to research that helps address issues related to high end computing and software; network stability, fragility, reliability, security (including privacy and counterinitiatives), and scalability; and the social and economic consequences (including the consequences for healthcare) of information technology.

''(2) In each of the fiscal years 2000 and 2001, the National Science Foundation shall award under this subsection up to 25 large grants of up to $1,000,000 each, and in each of the fiscal years 2002, 2003, and 2004, the National Science Foundation shall award under this subsection up to 35 large grants of up to $1,000,000 each.

''(3)(A) Of the amounts described in paragraph (1), $40,000,000 for fiscal year 2000, $45,000,000 for fiscal year 2001, $50,000,000 for fiscal year 2002, $55,000,000 for fiscal year 2003, and $60,000,000 for fiscal year 2004

shall be available for grants of up to $5,000,000 each for Information Technology Research Centers.

''(B) For purposes of this paragraph, the term 'Information Technology Research Centers' means groups of six or more researchers collaborating across scientific and engineering disciplines on large-scale long-term research projects which will significantly advance the science supporting the development of information technology or the use of information technology in addressing scientific issues of national importance.

''(d) MAJOR RESEARCH EQUIPMENT.—(1) In addition to the amounts authorized under subsection (b), there are authorized to be appropriated to the National Science Foundation $70,000,000 for fiscal year 2000, $70,000,000 for fiscal year 2001, $80,000,000 for fiscal year 2002, $80,000,000 for fiscal year 2003, and $85,000,000 for fiscal year 2004 for grants for the development of major research equipment to establish terascale computing capabilities at one or more sites and to promote diverse computing architectures. Awards made under this subsection shall provide for support for the operating expenses of facilities established to provide the terascale computing capabilities, with funding for such operating expenses derived from amounts available under subsection (b).

''(2) Grants awarded under this subsection shall be awarded through an open, nationwide, peer-reviewed competition. Awardees may include consortia consisting of members from some or all of the following types of institutions:

''(A) Academic supercomputer centers.

''(B) State-supported supercomputer centers.

''(C) Supercomputer centers that are supported as part of federally funded research and development centers.

Notwithstanding any other provision of law, regulation, or agency policy, a federally funded research and development center may apply for a grant under this subsection, and may compete on an equal basis with any other applicant for the awarding of such a grant.

''(3) As a condition of receiving a grant under this subsection, an awardee must agree—

''(A) to connect to the National Science Foundation's Partnership for Advanced Computational Infrastructure network;

''(B) to the maximum extent practicable, to coordinate with other federally funded large-scale computing and simulation efforts; and

''(C) to provide open access to all grant recipients under this subsection or subsection (c).

''(e) INFORMATION TECHNOLOGY EDUCATION AND TRAINING GRANTS.—

''(1) INFORMATION TECHNOLOGY GRANTS.—The National Science Foundation shall provide grants under the Scientific and Advanced Technology Act of 1992 for the purposes of section 3(a) and (b) of that Act, except that the activities supported pursuant to this paragraph shall be limited to improving education in fields related to information technology. The Foundation shall encourage institutions with a substantial percentage of student enrollments from groups underrepresented in information technology industries to participate in the competition for grants provided under this paragraph.

''(2) INTERNSHIP GRANTS.—The National Science Foundation shall provide—

''(A) grants to institutions of higher education to establish scientific internship programs in information technology research at private sector companies; and

''(B) supplementary awards to institutions funded under the Louis Stokes Alliances for Minority Participation program for internships in information technology research at private sector companies.

''(3) MATCHING FUNDS.—Awards under paragraph (2) shall be made on the condition that at least an equal amount of funding for the internship shall be provided by the private sector company at which the internship will take place.

''(4) DEFINITION.—For purposes of this subsection, the term 'institution of higher education' has the meaning given that term in section 1201(a) of the Higher Education Act of 1965 (20 U.S.C. 1141(a)).

''(5) AVAILABILITY OF FUNDS.—Of the amounts described in subsection (c)(1), $10,000,000 for fiscal year 2000, $15,000,000 for fiscal year 2001, $20,000,000 for fiscal year 2002, $25,000,000 for fiscal year 2003, and $25,000,000 for fiscal year 2004 shall be available for carrying out this subsection.

''(f) EDUCATIONAL TECHNOLOGY RESEARCH.—

''(1) RESEARCH PROGRAM.—As part of its responsibilities under subsection (a)(1), the National Science Foundation shall establish a research program to develop, demonstrate, assess, and disseminate effective applications of information and computer technologies for elementary and secondary education. Such program shall—

"(A) support research projects, including collaborative projects involving academic researchers and elementary and secondary schools, to develop innovative educational materials, including software, and pedagogical approaches based on applications of information and computer technology;

"(B) support empirical studies to determine the educational effectiveness and the cost effectiveness of specific, promising educational approaches, techniques, and materials that are based on applications of information and computer technologies; and

"(C) include provision for the widespread dissemination of the results of the studies carried out under subparagraphs (A) and (B), including maintenance of electronic libraries of the best educational materials identified accessible through the Internet.

"(2) REPLICATION.—The research projects and empirical studies carried out under paragraph (1)(A) and (B) shall encompass a wide variety of educational settings in order to identify approaches, techniques, and materials that have a high potential

for being successfully replicated throughout the United States.

''(3) AVAILABILITY OF FUNDS.—Of the amounts authorized under subsection (b), $10,000,000 for fiscal year 2000, $10,500,000 for fiscal year 2001, $11,000,000 for fiscal year 2002, $12,000,000 for fiscal year 2003, and $12,500,000 for fiscal year 2004 shall be available for the purposes of this subsection.

''(g) PEER REVIEW.—All grants made under this section shall be made only after being subject to peer review by panels or groups having private sector representation.''.

(b) OTHER PROGRAM AGENCIES.—

(1) NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.—Section 202(a) of the High-Performance Computing Act of 1991 (15 U.S.C. 5522(a)) is amended by inserting '', and may participate in or support research described in section 201(c)(1)'' after ''and experimentation''.

(2) DEPARTMENT OF ENERGY.—Section 203(a) of the High-Performance Computing Act of 1991 (15 U.S.C. 5523(a)) is amended by striking the period at the end and inserting a comma, and by adding after paragraph (4) the following:

''conduct an integrated program of research, development, and provision of facilities to develop and deploy to scientific and technical users the high performance computing and collaboration tools needed to fulfill the statutory mission of the Department of Energy, and may participate in or support research described in section 201(c)(1).''.

(3) NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.—Section 204(a)(1) of the High-Performance Computing Act of 1991 (15 U.S.C. 5524(a)(1)) is amended by striking ''; and'' at the end of subparagraph (C) and inserting a comma, and by adding after subparagraph (C) the following: ''and may participate in or support research described in section 201(c)(1); and''.

(4) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION.—Section 204(a)(2) of the High-Performance Computing Act of 1991 (15 U.S.C. 5524(a)(2)) is amended by inserting '', and may participate in or support research described in section 201(c)(1)'' after ''agency missions''.

(5) ENVIRONMENTAL PROTECTION AGENCY.—Section 205(a) of the High-Performance Computing Act of 1991 (15 U.S.C. 5525(a)) is amended by inserting '', and may participate in or support re-

search described in section 201(c)(1)'' after ''dynamics models''.

(6) UNITED STATES GEOLOGICAL SURVEY.—Title II of the High-Performance Computing Act of 1991 (15 U.S.C. 5521 et seq.) is amended—

(A) by redesignating sections 207 and 208 as sections 208 and 209, respectively; and

(B) by inserting after section 206 the following new section:

''SEC. 207. UNITED STATES GEOLOGICAL SURVEY.

''The United States Geological Survey may participate in or support research described in section 201(c)(1).''.

SEC. 205. NEXT GENERATION INTERNET.

(a) IN GENERAL.—Section 103(d) of the High-Performance Computing Act of 1991 (15 U.S.C. 5513(d)) is amended—

(1) in paragraph (1)—

(A) by striking ''1999 and'' and inserting ''1999,''; and

(B) by inserting '', $15,000,000 for fiscal year 2001, and $15,000,000 for fiscal year 2002'' after ''fiscal year 2000'';

(2) in paragraph (2), by inserting ", and $25,000,000 for fiscal year 2001 and $25,000,000 for fiscal year 2002" after "Act of 1998";

(3) in paragraph (4)—

(A) by striking "1999 and" and inserting "1999,"; and

(B) by inserting ", $10,000,000 for fiscal year 2001, and $10,000,000 for fiscal year 2002" after "fiscal year 2000"; and

(4) in paragraph (5)—

(A) by striking "1999 and" and inserting "1999,"; and

(B) by inserting ", $5,500,000 for fiscal year 2001, and $5,500,000 for fiscal year 2002" after "fiscal year 2000".

(b) RURAL INFRASTRUCTURE.—Section 103 of the High-Performance Computing Act of 1991 (15 U.S.C. 5513) is amended by adding at the end thereof the following:

"(e) RURAL INFRASTRUCTURE.—Out of appropriated amounts authorized by subsection (d), not less than 10 percent of the total amounts shall be made available to fund research grants for making high-speed connectivity more accessible to users in geographically remote areas. The research shall include investigations of wireless, hy-

brid, and satellite technologies. In awarding grants under this subsection, the administering agency shall give priority to qualified, post-secondary educational institutions that participate in the Experimental Program to Stimulate Competitive Research.''.

(c) MINORITY AND SMALL COLLEGE INTERNET ACCESS.—Section 103 of the High-Performance Computing Act of 1991 (15 U.S.C. 5513), as amended by subsection (b), is further amended by adding at the end thereof the following:

''(f) MINORITY AND SMALL COLLEGE INTERNET ACCESS.—Not less than 5 percent of the amounts made available for research under subsection (d) shall be used for grants to institutions of higher education that are Hispanic-serving, Native American, Native Hawaiian, Native Alaskan, Historically Black, or small colleges and universities.''.

(d) DIGITAL DIVIDE STUDY.—

(1) IN GENERAL.—The National Academy of Sciences shall conduct a study to determine the extent to which the Internet backbone and network infrastructure contribute to the uneven ability to access to Internet-related technologies and services by rural and low-income Americans. The study shall include—

(A) an assessment of the existing geographical penalty (as defined in section 7(a)(1) of the Next Generation Internet Research Act of 1998 (15 U.S.C. 5501 nt.)) and its impact on all users and their ability to obtain secure and reliable Internet access;

(B) a review of all current federally funded research to decrease the inequity of Internet access to rural and low-income users; and

(C) an estimate of the potential impact of Next Generation Internet research institutions acting as aggregators and mentors for nearby smaller or disadvantaged institutions.

(2) REPORT.—The National Academy of Sciences shall transmit a report containing the results of the study and recommendations required by paragraph (1) to the House of Representatives Committee on Science and the Senate Committee on Commerce, Science, and Transportation within 1 year after the date of enactment of this Act.

(3) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated to the National Academy of Sciences such sums as may be necessary to carry out this subsection.

SEC. 206. REPORTING REQUIREMENTS.

Section 101 of the High-Performance Computing Act of 1991 (15 U.S.C. 5511) is amended—

(1) in subsection (b)—

(A) by redesignating paragraphs (1) through (5) as subparagraphs (A) through (E), respectively;

(B) by inserting ''(1)'' after ''ADVISORY COMMITTEE.—''; and

(C) by adding at the end the following new paragraph:

''(2) In addition to the duties outlined in paragraph (1), the advisory committee shall conduct periodic evaluations of the funding, management, implementation, and activities of the Program, the Next Generation Internet program, and the Networking and Information Technology Research and Development program, and shall report not less frequently than once every 2 fiscal years to the Committee on Science of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate on its findings and recommendations. The first report shall be due within 1 year after the date of the enactment of the Networking and Information Technology Research and Development Act.''; and

(2) in subsection (c)(1)(A) and (2), by inserting ''; including the Next Generation Internet program

and the Networking and Information Technology Research and Development program'' after ''Program'' each place it appears.

SEC. 207. REPORT TO CONGRESS.

Section 103 of the High-Performance Computing Act of 1991 (15 U.S.C. 5513), as amended by section 205 of this title, is further amended by redesignating subsections (b), (c), and (d) as subsections (c), (d), and (e), respectively, and by inserting after subsection (a) the following new subsection:

''(b) REPORT TO CONGRESS.—

''(1) REQUIREMENT.—The Director of the National Science Foundation shall conduct a study of the issues described in paragraph (3), and not later than 1 year after the date of the enactment of the Networking and Information Technology Research and Development Act, shall transmit to the Congress a report including recommendations to address those issues. Such report shall be updated annually for 6 additional years.

''(2) CONSULTATION.—In preparing the reports under paragraph (1), the Director of the National Science Foundation shall consult with the National Aeronautics and Space Administration, the National Institute of Standards and Technology, and such

other Federal agencies and educational entities as the Director of the National Science Foundation considers appropriate.

''(3) ISSUES.—The reports shall—

''(A) identify the current status of high-speed, large bandwidth capacity access to all public elementary and secondary schools and libraries in the United States;

''(B) identify how high-speed, large bandwidth capacity access to the Internet to such schools and libraries can be effectively utilized within each school and library;

''(C) consider the effect that specific or regional circumstances may have on the ability of such institutions to acquire high-speed, large bandwidth capacity access to achieve universal connectivity as an effective tool in the education process; and

''(D) include options and recommendations for the various entities responsible for elementary and secondary education to address the challenges and issues identified in the reports.''.

SEC. 208. STUDY OF ACCESSIBILITY TO INFORMATION TECHNOLOGY.

Section 201 of the High-Performance Computing Act of 1991 (15 U.S.C. 5524), as amended by sections 3(a) and 4(a) of this Act, is amended further by inserting after subsection (g) the following new subsection:

''(h) STUDY OF ACCESSIBILITY TO INFORMATION TECHNOLOGY.—

''(1) STUDY.—Not later than 90 days after the date of the enactment of the Networking and Information Technology Research and Development Act, the Director of the National Science Foundation, in consultation with the National Institute on Disability and Rehabilitation Research, shall enter into an arrangement with the National Research Council of the National Academy of Sciences for that Council to conduct a study of accessibility to information technologies by individuals who are elderly, individuals who are elderly with a disability, and individuals with disabilities.

''(2) SUBJECTS.—The study shall address—

''(A) current barriers to access to information technologies by individuals who are elderly, individuals who are elderly with a disability, and individuals with disabilities;

''(B) research and development needed to remove those barriers;

''(C) Federal legislative, policy, or regulatory changes needed to remove those barriers; and

''(D) other matters that the National Research Council determines to be relevant to access to information technologies by individuals who are elderly, individuals who are elderly with a disability, and individuals with disabilities.

''(3) TRANSMITTAL TO CONGRESS.—The Director of the National Science Foundation shall transmit to the Congress within 2 years of the date of the enactment of the Networking and Information Technology Research and Development Act a report setting forth the findings, conclusions, and recommendations of the National Research Council.

''(4) FEDERAL AGENCY COOPERATION.—Federal agencies shall cooperate fully with the National Research Council in its activities in carrying out the study under this subsection.

''(5) AVAILABILITY OF FUNDS.—Funding for the study described in this subsection shall be available, in the amount of $700,000, from amounts described in subsection (c)(1).''.

SEC. 209. COMPTROLLER GENERAL STUDY.

Not later than 1 year after the date of the enactment of this Act, the Comptroller General shall transmit to the Congress a report on the results of a detailed study analyzing the effects of this title, and the amendments made by this title, on lower income families, minorities, and women.

Passed the House of Representatives October 24, 2000.

Attest: JEFF TRANDAHL,

Clerk.