

H.R. 4664 also includes substantial provisions from the Undergraduate Science, Mathematics, Engineering and Technology Education Improvement Act, H.R. 3130, that authorize several programs at the National Science Foundation to strengthen undergraduate education in these fields of study. Basically, these programs will help increase the numbers of students graduating in science, math and engineering and will help improve the quality of undergraduate science education.

The undergraduate educational programs build on existing NSF programs that have proven their effectiveness, such as Research Experiences for Undergraduates. Similarly, the bill will provide support for the expansion of successful, small-scale undergraduate education reform activities that some colleges and universities have been engaged in.

H.R. 4664 is an important bill that will help ensure the nation maintains a vigorous basic research enterprise, which is an essential component for a strong economy and for national security. And equally important, it will help educate the next generation of scientists and engineers, the essential ingredient in ensuring the nation's technological strength.

Mr. Speaker, I commend this measure to my colleagues and ask for their support for its passage by the House.

---

H.R. 4664

SPEECH OF

**HON. EDDIE BERNICE JOHNSON**

OF TEXAS

IN THE HOUSE OF REPRESENTATIVES

*Thursday, November 14, 2002*

Ms. EDDIE BERNICE JOHNSON of Texas. Mr. Speaker, I want to thank Chairman BOEHLERT, Ranking Member HALL, and Chairman SMITH for working with me in a bipartisan manner on this important piece of legislation that makes a strong statement about our commitment to invest in America's future. I would also like to extend my appreciation to Senator KENNEDY, Senator HOLLINGS, Senator GREGG, and Senator BOND in the other body.

As Ranking Member of the House Science Research Subcommittee, I am pleased to say that this is truly an historic piece of legislation for science policy in the United States. The conference report of H.R. 4664 begins the process of doubling NSF's budget, which was the goal of H.R. 1472, the NSF authorization bill I introduced in April of 2001. I introduced H.R. 1472 because I strongly believe that investing in basic science, math, and engineering research is essential to the future economic prosperity and global competitiveness of our country. Many of today's scientific breakthroughs in medicine, consumer electronics, homeland security and other technical fields are the direct result of investments made in basic research decades ago.

To appreciate the importance of NSF to scientists in America, consider some facts. NSF provides 23 percent of basic research funding at academic institutions and as much as 72 percent and 78 percent of the research in critical areas such as mathematics and science. Yet despite its importance to key sectors of our nation's economy, NSF previously had to decline more than \$1 billion worth of high quality research proposals each year due to

insufficient funds. With the passage of today's conference report, that situation has begun to change. The increase is applied equally to research and education programs, and specific funding authorizations are made for the focused research initiatives in some of the most promising frontiers of science, such as information technology and nanoscale science and engineering. The bill also makes a number of improvements in the way major research projects are funded, the transparency of the agency, and the coordination with other federal research agencies.

NSF also plays a leading role in educating our youth in the math and sciences and training the scientists and engineers of tomorrow, and the agency is working to ensure that tomorrow's high-tech workers reflect the diversity of America. This legislation includes a number of important initiatives that will improve upon science education in the United States. With Senator KENNEDY's help, H.R. 4664 includes portions of H.R. 1660, the Mathematics and Science Proficiency Partnership Act I introduced in May of 2001 to help secondary schools leverage private sector funds for math, science, and engineering scholarships. The Technology Talent Act of 2002, H.R. 3130, is also included in the NSF reauthorization. This initiative will increase the number of students studying and receiving associate's or bachelor's degrees in established or emerging fields within science, mathematics, engineering, and technology. It also establishes specific grant programs in these fields at Historically Black Colleges and Universities and enables eligible nonprofit organizations to work with NSF and public-private consortia to improve science and math education. My home state of Texas has an excellent track record of these innovative partnerships.

I am also pleased that the conference report of H.R. 4664 includes the text of H.R. 2051, the Regional Plant Genome and Gene Research Expression Act Chairman SMITH and I developed together and that passed the House in May of 2002. The legislation establishes competitive, merit based grants to eligible entities to conduct basic research on crops that can be grown in the developing world. The research supported by these grants will help scientists discover innovative solutions to some of the developing world's most intractable problems, such as hunger, malnutrition, and disease. An important feature of this authorization is that U.S. scientists are required to partner with their colleagues in developing nations, which will help develop the scientific capacity of developing nations and stimulate the free flow of ideas, which is so essential to the progress of science.

If we want future Americans to enjoy the pace of progress that we are blessed with today, it is imperative that we bolster funding for our nation's premier basic research agency, the National Science Foundation. H.R. 4664 is a step in the direction of making that dream possible. The legislation that passed last week provides our nation's premier science research agency with the resources it needs to continue and improve upon its excellent track record and authorizes a number of important science policy initiatives. I urge the President to sign H.R. 4664 into law, and I look forward to working with my colleagues on both sides of the aisle in both chambers to ensure that NSF is fully funded under these new authorization levels.

H.R. 3609

SPEECH OF

**HON. DON YOUNG**

OF ALASKA

IN THE HOUSE OF REPRESENTATIVES

*Thursday, November 14, 2002*

Mr. YOUNG of Alaska. Mr. Speaker, with the passage of H.R. 3609 pipeline safety legislation, Congress has completed a critical step in improving the safety and reliability of the nation's interstate natural gas pipeline system. The Office of Pipeline Safety (OPS), within the Department of Transportation has principal responsibility for developing, applying, and enforcing the pipeline safety rules that enhances the safety of the nation's pipelines and protects the public.

OPS is required to enforce these rules without regard to market conditions or commercial considerations. It must diligently seek to promote safety above any competing objectives. Among the most important of existing pipeline safety rules is the requirement that natural gas pipelines not exceed maximum allowable operating pressure, or MAOP. A pipeline's MAOP is established on the basis of engineering principles, testing, historical operations, and experience. Pipeline operators who exceed MAOP violate the Department of Transportation's pipeline safety regulations and may be fined for such violations.

No agency other than OPS should be allowed to re-interpret or water down pipeline safety regulations based on its view of market or commercial concerns. Allowing any other agency to usurp OPS's function will undermine the hard work the Congress has completed to enhance pipeline safety and minimize the risks of pipeline ruptures that may cause serious injury and death.

---

H.R. 4664

SPEECH OF

**HON. JOHN B. LARSON**

OF CONNECTICUT

IN THE HOUSE OF REPRESENTATIVES

*Thursday, November 14, 2002*

Mr. LARSON of Connecticut. Mr. Speaker, I rise today in support of the National Science Foundation Authorization Act, H.R. 4664, passed by the House on November 14, 2002, a bill which doubles funding for one of the most efficient and essential agencies of the Federal government, the National Science Foundation. In particular, I am proud to support this bill because it contains two provisions I authored, both of which will address growing needs in our educational system, our workforce and the economy.

The first provision will have a positive impact on our educational system's ability to integrate cutting edge technology into the classroom instruction of advanced disciplines at the primary and secondary education levels and which will, therefore, improve the educational opportunities of America's students. The second provision will address a growing problem in our nation's workforce: fewer and fewer Americans are seeking degrees in the scientific and technical fields as demand grows and more jobs go unfilled. Both provisions will improve the nation's capacity to maintain an innovative edge in technical fields, which is