

research should include estimates of the time required to bring these resources into production.

Defining these resources is only a first step. As an advocate for oil and natural gas research, the IOGCC also strongly supports programs that create technology to improve recovery rates and lower finding and production costs. Such research and development (R&D) is an investment in the country's future and its energy security. Technological advance might be the most important factor in ensuring America's nonrenewable resources are fully developed.

As noted by the Task Force on Strategic Energy Research and Development, "There is growing evidence of a brewing 'R&D crisis' in the United States—the result of cutbacks and refocusing in private-sector R&D and reductions in federal R&D. Support for research and development is indeed being simultaneously reduced in the private and public sectors. R&D cannot be turned on and off like a water tap. The acquisition of new knowledge and the embodiment of new knowledge in new products and services for the economy is a cumulative process that requires continuous effort to sustain. The accumulation of cutbacks in public and private R&D could be setting the stage for a major shortfall and setbacks in R&D in the United States—characterized by the lack of consistent attention to longer-term needs and problems, a shrinking population of scientists and engineers available to perform high-quality R&D, and a loss of incentives and opportunities for new generations of technologists."

A 1997 report commissioned by the IOGCC confirmed the declining trend in oil and gas research and development. "When private R&D is compared to federal expenditures, the outlook is more bleak. Private spending is substantiated . . . but federal spending remains disproportionately small compared to the relative importance of oil and gas to U.S. energy requirements."

Enrollment in petroleum-related majors at America's colleges and universities has shrunk as well. At the University of Texas at Austin, home of one of the largest petroleum engineering programs in the nation, undergraduate enrollment in the Department of Petroleum and Geosystems Engineering has plummeted more than 80 percent from a high of 1,200 in 1982 to 222 in 1999. About 1,300 students currently are enrolled in undergraduate petroleum engineering programs in the U.S., down sharply from more than 11,000 in 1983.

A 1997 study published by the IOGCC expressed alarm at the loss of experienced and entry-level technical personnel, noting "there is a 5- to 7-year gap between decisions to increase exploration budgets and resulting new oil production, even when experienced technical staff are available. However, few have considered the long-term effects of the 1986 petroleum jobs massacre (in which 500,000 jobs were lost) and how the events of 10 years ago will influence future energy policy and supplies . . . Any crisis in oil supply causing increases in domestic activity will be constrained by lack of qualified staff."

The federal government could fulfill a vital leadership role in reversing the trend. The country's network of national laboratories, for example, seems ideally suited for the mission of energy research.

In addition, the IOGCC supports a reallocation of U.S. Department of Energy resources to provide additional research and development funding for oil and natural gas. The DOE's budget request totals \$18.9 billion for

fiscal year 2001. For fossil energy research and development, DOE is requesting \$376 million, less than 2 percent of the budget. About \$160 million is requested for oil and natural gas research. This represents slightly more

The DOE's Office of Fossil Energy highlights the importance of R&D. "Looking forward, the domestic oil and gas industry will be challenged to continue extending the frontiers of technology. Ongoing advances in E&P productivity are essential if producers are to keep pace with steadily growing demand for oil and gas, both in the United States and world wide."

The NPC notes "producers are turning to the service sectors to develop new technology for specific applications. Industry consortia have been formed to address critical technology challenges such as deep water development. While many of these changes improve the efficiency with which research and development dollars are spent, concerns have been widely expressed that basic and long-term research are not being adequately addressed."

Meanwhile, solar and renewables technologies, which provide less than 10 percent of U.S. energy, would receive more than \$457 million. The 28 percent increase in funding (\$99 million) for 2001 represents more than the total request for oil and natural gas research.

Reality dictates that additional funding for oil and natural gas research and development is unlikely. However, the IOGCC supports a drastic shift in how available tax dollars are spent. In the early years of the DOE, large and expensive demonstration projects dominated R&D spending. "That early emphasis on demonstration projects, reflecting the turmoil of the late 1970s, was, in retrospect, misplaced."

Despite billions of dollars spent on renewable energy R&D during the period of 1990-1999, there has been little impact by renewables on the nation's total energy consumption pattern (Figure 6). In fact, in 1999, renewables supplied a nearly identical percentage of the nation's total energy consumption as in 1990.

According to Hodel and Deitz, "however important alternative sources eventually may be, our best estimate is that we will continue to meet our energy needs with oil and gas for at least the remainder of this and the next generation of Americans, and very possibly several succeeding ones as well. Without some kind of energy breakthrough or aggressive government mandates, oil and gas appear certain to be our predominant fuels for the next 40 to 100 years."

A broad range of parties assembled by the National Petroleum Council to assess the future of the oil and gas industry expressed ". . . surprisingly broad agreement . . ." on the outlook for the next 25 years, including, "The United States and the world will still be using large amounts of oil and gas in 2020, not significantly different from the more than 60 percent share of world energy consumption these fuels represent today."

The case for redirecting R&D dollars to where they would prove more effective is especially important as government considers budget freezes and cutbacks. Past successes, including three-dimensional seismic, polycrystalline diamond drill bits and horizontal drilling, which have helped lower costs and improve recovery, should be built upon.

To ensure that these limited resources are spent wisely, the IOGCC recommends the budgets for energy research and development be considered by the same congressional sub-

committees. Current congressional structure requires fossil fuel and renewables research budgets to be evaluated in separate budget bills handled by separate subcommittees of the House and Senate Appropriations Committees. As a result, side-by-side comparisons of expenditures and impacts are difficult, and there is a lack of flexibility in allocating finite resources.

The NPC notes "in the past three decades, the petroleum business has transformed itself into a high-technology industry . . . Looking forward, the domestic oil and gas industry will be challenged to continue extending the frontiers of technology. Ongoing advances in E&P productivity are essential if producers are to keep pace with steadily growing demand for oil and gas, both in the United States and world wide. Continuing innovation will also be needed to sustain the industry's leadership in the intensely competitive international arena, and to retain high-paying oil and gas industry jobs at home."

DEPARTMENT OF THE INTERIOR  
AND RELATED AGENCIES APPROPRIATIONS ACT, 2002

SPEECH OF

HON. JAMES V. HANSEN

OF UTAH

IN THE HOUSE OF REPRESENTATIVES

Thursday, June 21, 2001

The House in Committee of the Whole House on the State of the Union had under consideration the bill (H.R. 2217) making appropriations for the Department of the Interior and related agencies for the fiscal year ending September 30, 2002, and for other purposes;

Mr. HANSEN. Mr. Chairman, H.R. 2217, making appropriations for the Department of the Interior and related agencies for the fiscal year ending September 30, 2002, contained language under the National Park Service/Land Acquisition and State Assistance section regarding federal grants to the State of Florida for acquisition of lands or waters within the Everglades watershed, including the areas known as the Frog Pond, the Rocky Glades and the Eight and One-Half Square Mile Area. This language begins on page 29, line 15 of the House engrossed bill and continues until page 30, line 11.

This language does not constitute any new authority to acquire land or to obligate funds beyond existing law under Public Law 101-229, the Everglades National Park Protection and Expansion Act of 1989. The Committee on Resources has primary jurisdiction over this statute. The authority of the federal government to acquire land, directly or indirectly by eminent domain, must be specific. If I felt that this language in the Interior appropriations bill authorized new acquisition authority, I would have exercised my prerogative under the rules of the House of Representatives to have the language struck on a point of order.

Similarly, nothing in this language from the Interior appropriations bill provides any new project authorization beyond that contained in the Everglades National Park Protection and Expansion Act. Again, I would have raised a point of order against the text if I believed that it constituted new or amended project authority.

June 27, 2001

I hope this clarifies any questions or concerns that my colleagues or the public might have regarding these provisions.

HONORING REVEREND JOHN L. FREESEMANN'S 25TH ANNIVERSARY OF ORDINATION

**HON. ZOE LOFGREN**

OF CALIFORNIA

IN THE HOUSE OF REPRESENTATIVES

Wednesday, June 27, 2001

Ms. LOFGREN. Mr. Speaker, I rise to congratulate Reverend John L. Freeseemann of the Holy Redeemer Lutheran Church in San Jose, California, on the 25th Anniversary of his Ordination. On the 27th day of June, 1976, Reverend John L. Freeseemann was ordained in the Lutheran Church. For 25 years he has served both his parish community and the people of Santa Clara County faithfully and devotedly.

Reverend John Freeseemann has been a tireless advocate of ecumenism in San Jose and the surrounding communities; he has provided a decade of responsible leadership as a board member and past president of the California Council of Churches, and is a founding member and the current president of California Church Impact. Reverend Freeseemann has also served for eight terms as president of the Santa Clara County Council of Churches. Reverend John Freeseemann gives tirelessly of his time and talents to support children and families as a founding member, two-term vice president, and current president of Resources for Families and Communities in Santa Clara County.

As the pastor of Holy Redeemer Lutheran Church for 11 years, Reverend Freeseemann has established his San Jose parish as a place of safety, of compassion and of hope. Under his loving guidance, Holy Redeemer has expanded its ministries to the community at large.

I wish to congratulate Reverend John L. Freeseemann on this, the 25th Anniversary of his Ordination, and to thank him for his many years of service to the people of San Jose. Our community is the richer for his faithful service.

INTRODUCTION OF THE BIOTECHNOLOGY AND AGRICULTURE IN THE DEVELOPING WORLD ACT OF 2001

**HON. EDDIE BERNICE JOHNSON**

OF TEXAS

IN THE HOUSE OF REPRESENTATIVES

Wednesday, June 27, 2001

Ms. EDDIE BERNICE JOHNSON of Texas. Mr. Speaker, today I am introducing a bill to establish a grant program under the Secretary of Agriculture to support research and development programs in agricultural biotechnology to address the food and economic needs of the developing world.

My bill recognizes the great potential of agricultural biotechnology to combat hunger, malnutrition, and sickness in the developing world

**EXTENSIONS OF REMARKS**

and provides the mechanism to encourage the pursuit of this exciting technology.

Portions of the developing world are facing a pandemic of malnutrition and disease; 200 million people on the African continent alone are chronically malnourished. Traditional farming practices cannot meet the growing needs of the developing world. Africa's crop production is the lowest in the world and even with about two-thirds of its labor force engaged in agriculture, Africa currently imports more than 25 percent of its grain for food and feed.

Biotechnology offers great promise for agriculture and nutrition in the developing world. Vitamin-enhanced foods, foods higher in protein, and fruits and vegetables with longer shelf-lives have been developed using biotechnology. Biotechnology can promote sustainable agriculture, leading to food and economic security in developing nations. Biotechnology can help developing countries produce higher crop yields while using fewer pesticides and herbicides. My bill does not encourage the development of pesticide-resistant crops.

An added benefit of increased yields through biotechnology is that increased productivity on existing crop land reduces the amount of land that needs to be farmed as well as the need for new crop acreage, which can greatly slow the rate of habitat destruction. Since most food production and farming in the developing world is done by women, such an increase in productivity also enables women to spend their time on other productive activities and better care for their families.

Biotechnology can also improve the health of citizens of developing countries by combating illness. Substantial progress has been made in the developed world on vaccines against life-threatening illnesses, but, unfortunately, infrastructure limitations often hinder the effectiveness of traditional vaccination methods in some parts of the developing world. For example, many vaccines must be kept refrigerated until they are injected. Even if a health clinic has electricity and is able to deliver effective vaccines, the cost of multiple needles can hinder vaccination efforts. Additionally, the improper use of hypodermic needles can spread HIV, the virus that causes AIDS. Biotechnology offers the prospect of orally delivering vaccines to immunize against life-threatening illnesses through agricultural products in a safe and effective manner.

My bill establishes a grant program under the Foreign Agricultural Service in the Department of Agriculture to encourage research in agricultural biotechnology. Eligible grant recipients include historically black colleges and universities, land-grant colleges, Hispanic serving institutions, and tribal colleges or universities. Non-profit organizations and consortia of for-profit and in-country agricultural research centers are also eligible.

I encourage my colleagues to support this important piece of legislation.

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30TH ANNIVERSARY OF THE INTERNATIONAL ARTS FESTIVAL

**HON. EDOLPHUS TOWNS**

OF NEW YORK

IN THE HOUSE OF REPRESENTATIVES

Wednesday, June 27, 2001

Mr. TOWNS. Mr. Speaker, I rise on the occasion of the 30th anniversary of the International African Arts Festival which annually contributes to the Brooklyn community through weekend long cultural events.

For the past thirty years, the International African Arts Festival has brought together those who wish to enjoy the music, dance, art, craft, flavors, colors, laughter, and love of the African Diasporan family as well as visitors from across the globe. Born on a stage, the festival grew into a block party. However, soon thereafter the location changed once again to the Boys and Girls High field.

In an effort to give back to the community, the International African Arts Festival holds an annual talent search, in which cash prizes and performance contracts are awarded to young people. The talent search has helped to launch the careers of several young stars. In addition, the Festival has awarded over \$23,000 in annual scholarships to graduating high school seniors over the past eleven years. The International African Arts Festival is also responsible for the success of the Living Legends Award as well as the Ankh Award, both bestowed upon leaders and inspirational figures in the community.

The International African Arts Festival is committed to maintaining a connection with African tradition itself. A traditional African libation ceremony officially opens the Festival each year in salute to the spirit of the African ancestors. Over the course of its thirty years, the International African Arts Festival has brought a wealth of world-class entertainment to Brooklyn stages. The Festival maintains a deep connection with the residents of Brooklyn, employing over 300 people every year.

Mr. Speaker, for the past thirty years the International African Arts Festival has been an integral part of the community. As such, the Festival is more than worthy of receiving our recognition today. I hope that all of my colleagues will join me in honoring this truly remarkable event.

U.S. POSTAL SERVICE LINKS ACROSS AMERICA

**HON. E. CLAY SHAW, JR.**

OF FLORIDA

IN THE HOUSE OF REPRESENTATIVES

Wednesday, June 27, 2001

Mr. SHAW. Mr. Speaker, the U.S. Postal Service links together cities and towns, large and small, across America through delivery of the mail. Since our nation's founding, mail delivery has been especially important to rural America, places that were at first a long walk away, then a long horse ride, and even for years a long automobile ride from the nearest downtown of a major city. The Internet today has helped reduce the distance between cities, and even countries, but mail delivery continues to be an important function for all Americans.