

Union Calendar No. 266

108TH CONGRESS
2^D SESSION

H. R. 3970

[Report No. 108-462]

To provide for the implementation of a Green Chemistry Research and Development Program, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MARCH 16, 2004

Mr. GINGREY (for himself, Ms. EDDIE BERNICE JOHNSON of Texas, and Mr. EHLERS) introduced the following bill; which was referred to the Committee on Science

APRIL 14, 2004

Additional sponsors: Mr. ROHRBACHER, Mr. SIMMONS, Mr. BOEHLERT, Mr. BOUCHER, Mr. HASTINGS of Washington, Mr. MCHUGH, Mr. MARSHALL, and Mr. FILNER.

APRIL 14, 2004

Reported with an amendment, committed to the Committee of the Whole House on the State of the Union, and ordered to be printed

[Strike out all after the enacting clause and insert the part printed in *italic*]

[For text of introduced bill, see copy of bill as introduced on March 16, 2004]

A BILL

To provide for the implementation of a Green Chemistry Research and Development Program, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. SHORT TITLE.**

2 *This Act may be cited as the “Green Chemistry Re-*
3 *search and Development Act of 2004”.*

4 **SEC. 2. DEFINITIONS.**

5 *In this Act—*

6 *(1) the term “green chemistry” means chemistry*
7 *and chemical engineering to design chemical products*
8 *and processes that reduce or eliminate the use or gen-*
9 *eration of hazardous substances;*

10 *(2) the term “Interagency Working Group”*
11 *means the interagency working group established*
12 *under section 3(c); and*

13 *(3) the term “Program” means the Green Chem-*
14 *istry Research and Development Program described*
15 *in section 3.*

16 **SEC. 3. GREEN CHEMISTRY RESEARCH AND DEVELOPMENT**
17 **PROGRAM.**

18 *(a) IN GENERAL.—The President shall establish a*
19 *Green Chemistry Research and Development Program to*
20 *promote and coordinate Federal green chemistry research,*
21 *development, demonstration, education, and technology*
22 *transfer activities.*

23 *(b) PROGRAM ACTIVITIES.—The activities of the Pro-*
24 *gram shall be designed to—*

1 (1) *provide sustained support for green chem-*
2 *istry research, development, demonstration, education,*
3 *and technology transfer through—*

4 (A) *merit-reviewed competitive grants to in-*
5 *dividual investigators and teams of investigators,*
6 *including, to the extent practicable, young inves-*
7 *tigators, for research and development;*

8 (B) *grants to fund collaborative research*
9 *and development partnerships among univer-*
10 *sities, industry, and nonprofit organizations;*

11 (C) *green chemistry research, development,*
12 *demonstration, and technology transfer con-*
13 *ducted at Federal laboratories; and*

14 (D) *to the extent practicable, encouragement*
15 *of consideration of green chemistry in—*

16 (i) *the conduct of Federal chemical*
17 *science and engineering research and devel-*
18 *opment; and*

19 (ii) *the solicitation and evaluation of*
20 *all proposals for chemical science and engi-*
21 *neering research and development;*

22 (2) *examine methods by which the Federal Gov-*
23 *ernment can create incentives for consideration and*
24 *use of green chemistry processes and products;*

1 (3) facilitate the adoption of green chemistry in-
2 novations;

3 (4) expand education and training of under-
4 graduate and graduate students, and professional
5 chemists and chemical engineers, including through
6 partnerships with industry, in green chemistry
7 science and engineering;

8 (5) collect and disseminate information on green
9 chemistry research, development, and technology
10 transfer, including information on—

11 (A) incentives and impediments to develop-
12 ment and commercialization;

13 (B) accomplishments;

14 (C) best practices; and

15 (D) costs and benefits; and

16 (6) provide venues for outreach and dissemina-
17 tion of green chemistry advances such as symposia,
18 forums, conferences, and written materials in collabo-
19 ration with, as appropriate, industry, academia, sci-
20 entific and professional societies, and other relevant
21 groups.

22 (c) *INTERAGENCY WORKING GROUP.*—The President
23 shall establish an Interagency Working Group, which shall
24 include representatives from the National Science Founda-
25 tion, the National Institute of Standards and Technology,

1 *the Department of Energy, the Environmental Protection*
2 *Agency, and any other agency that the President may des-*
3 *ignate. The Director of the National Science Foundation*
4 *and the Assistant Administrator for Research and Develop-*
5 *ment of the Environmental Protection Agency shall serve*
6 *as co-chairs of the Interagency Working Group. The Inter-*
7 *agency Working Group shall oversee the planning, manage-*
8 *ment, and coordination of the Program. The Interagency*
9 *Working Group shall—*

10 (1) *establish goals and priorities for the Pro-*
11 *gram, to the extent practicable in consultation with*
12 *green chemistry researchers and potential end-users of*
13 *green chemistry products and processes; and*

14 (2) *provide for interagency coordination, includ-*
15 *ing budget coordination, of activities under the Pro-*
16 *gram.*

17 (d) *REPORT TO CONGRESS.—Not later than 2 years*
18 *after the date of enactment of this Act, the Interagency*
19 *Working Group shall transmit a report to the Committee*
20 *on Science of the House of Representatives and the Com-*
21 *mittee on Commerce, Science, and Transportation of the*
22 *Senate. This report shall include—*

23 (1) *a summary of federally funded green chem-*
24 *istry research, development, demonstration, education,*

1 *and technology transfer activities, including the green*
2 *chemistry budget for each of these activities; and*

3 *(2) an analysis of the progress made toward*
4 *achieving the goals and priorities for the Program,*
5 *and recommendations for future program activities.*

6 **SEC. 4. BIENNIAL REPORT.**

7 *Section 37(a) of the Science and Engineering Equal*
8 *Opportunities Act (42 U.S.C. 1885d(a)) is amended by*
9 *striking “By January 30, 1982, and biennially thereafter”*
10 *and inserting “By January 30 of each odd-numbered year”.*

11 **SEC. 5. MANUFACTURING EXTENSION CENTER GREEN SUP-**
12 **PLIERS NETWORK GRANT PROGRAM.**

13 *Section 25(a) of the National Institute of Standards*
14 *and Technology Act (15 U.S.C. 278k(a)) is amended—*

15 *(1) by striking “and” at the end of paragraph*
16 *(4);*

17 *(2) by striking the period at the end of para-*
18 *graph (5) and inserting “; and”; and*

19 *(3) by adding at the end the following:*

20 *“(6) the enabling of supply chain manufacturers*
21 *to continuously improve products and processes, in-*
22 *crease energy efficiency, identify cost-saving opportu-*
23 *nities, and optimize resources and technologies with*
24 *the aim of reducing or eliminating the use or genera-*
25 *tion of hazardous substances.”.*

1 **SEC. 6. AUTHORIZATION OF APPROPRIATIONS.**

2 (a) *NATIONAL SCIENCE FOUNDATION.*—*From sums*
3 *otherwise authorized to be appropriated, there are author-*
4 *ized to be appropriated to the National Science Foundation*
5 *for carrying out this Act—*

6 (1) \$7,000,000 for fiscal year 2005;

7 (2) \$7,500,000 for fiscal year 2006; and

8 (3) \$8,000,000 for fiscal year 2007.

9 (b) *NATIONAL INSTITUTE OF STANDARDS AND TECH-*
10 *NOLOGY.*—*From sums otherwise authorized to be appro-*
11 *priated, there are authorized to be appropriated to the Na-*
12 *tional Institute of Standards and Technology for carrying*
13 *out this Act—*

14 (1) \$5,000,000 for fiscal year 2005;

15 (2) \$5,500,000 for fiscal year 2006; and

16 (3) \$6,000,000 for fiscal year 2007.

17 (c) *DEPARTMENT OF ENERGY.*—*From sums otherwise*
18 *authorized to be appropriated, there are authorized to be*
19 *appropriated to the Department of Energy for carrying out*
20 *this Act—*

21 (1) \$7,000,000 for fiscal year 2005;

22 (2) \$7,500,000 for fiscal year 2006; and

23 (3) \$8,000,000 for fiscal year 2007.

24 (d) *ENVIRONMENTAL PROTECTION AGENCY.*—*From*
25 *sums otherwise authorized to be appropriated, there are au-*

1 *thorized to be appropriated to the Environmental Protec-*
2 *tion Agency for carrying out this Act—*

3 (1) *\$7,000,000 for fiscal year 2005;*

4 (2) *\$7,500,000 for fiscal year 2006; and*

5 (3) *\$8,000,000 for fiscal year 2007.*

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