

109TH CONGRESS
2D SESSION

S. RES.

Recognizing the Lawrence Berkeley National Laboratory as 1 of the premier science and research institutions of the world.

IN THE SENATE OF THE UNITED STATES

Mr. DOMENICI (for himself, Mr. BINGAMAN, Mrs. BOXER, and Mrs. FEINSTEIN) submitted the following resolution; which was referred to the Committee on

RESOLUTION

Recognizing the Lawrence Berkeley National Laboratory as 1 of the premier science and research institutions of the world.

Whereas the Lawrence Berkeley National Laboratory was founded on August 26, 1931, by Ernest Orlando Lawrence, winner of the 1939 Nobel Prize in physics for his invention of the cyclotron, a circular particle accelerator that opened the door to modern high-energy physics;

Whereas the belief of Mr. Lawrence that scientific research is best done through teams of individuals with different fields of expertise left a legacy that has yielded rich dividends for the United States in basic knowledge and applied technology;

Whereas that distinguished legacy of accomplishment includes 10 Nobel Laureates associated with the Lawrence Berkeley National Laboratory, and a dozen scientists of the Lawrence Berkeley National Laboratory who have won the National Medal of Science;

Whereas, in 2006, the Lawrence Berkeley National Laboratory continues to be used to conduct research across a wide range of scientific disciplines with key efforts in fundamental studies of the universe, quantitative biology, nanoscience, new energy systems, environmental solutions, and the use of integrated computing as a tool for discovery;

Whereas scientists at the Lawrence Berkeley National Laboratory discovered the revolutionary new truth of the accelerating expansion of the universe, are pioneering the promising new scientific field of synthetic biology, and are harnessing the secrets of the genome to help solve the grand challenges of the world;

Whereas, through those accomplishments and others, including finding the antiproton, advancing energy efficiency and conservation technologies, deciphering the photosynthetic process, pioneering the field of nuclear medicine, and spearheading the development of alternative energy sources, scientists of the Lawrence Berkeley National Laboratory have played a critical role in advancing the world leadership of the United States in fundamental and applied sciences;

Whereas the national scientific user facilities of the Lawrence Berkeley National Laboratory provide the highest level of scientific, engineering, and technical support to thousands of scientists each year whose published works con-

tinue to consistently enrich their respective research fields;

Whereas the newest user facility of the Lawrence Berkeley National Laboratory, the Molecular Foundry, opened its doors on March 24, 2006, to enable the design, synthesis, and characterization of nanoscale materials, thereby opening the door to unimagined scientific and technological advancements;

Whereas the Advanced Light Source of the Lawrence Berkeley National Laboratory is a national user facility that generates intense light for scientific and technological research that, among other accomplishments, has helped reveal how bacteria resist antibiotics, how inexpensive and efficient solar cells can be fabricated, and how unique substances like quasicrystals possess properties never before seen by humans;

Whereas the National Center for Electron Microscopy of the Lawrence Berkeley National Laboratory houses several of the most advanced microscopes and tools for micro-characterization in the world, including the One-Angstrom Microscope and the Spin Polarized Low-Energy Electron Microscope, that allow scientists to gain a basic scientific understanding of new energy-efficient materials, as well as to analyze the behavior of materials such as magnets, superconductors, ceramics, and high-temperature alloys; and

Whereas the National Energy Research Scientific Computing Center of the Lawrence Berkeley National Laboratory is the flagship scientific computing facility for the Office of Science of the Department of Energy, and is 1 of the largest facilities in the world that is devoted to providing

computational resources and expertise for basic scientific research: Now, therefore, be it

1 *Resolved*, That the Senate—

2 (1) recognizes the outstanding and unique role
3 that the Lawrence Berkeley National Laboratory
4 has played over the past 75 years in the scientific
5 and technological advancement of the United States
6 and the international community; and

7 (2) congratulates the dedicated past and
8 present scientists and researchers who have worked
9 at the Lawrence Berkeley National Laboratory to
10 make the institution 1 of the greatest research re-
11 sources in the world.