

MAR 15 2006

SENATE CONCURRENT RESOLUTION

ENCOURAGING THE LEGISLATURE, THE ADMINISTRATION, THE UNIVERSITY OF HAWAII, AND HAWAII'S CONGRESSIONAL DELEGATION TO WORK COLLABORATIVELY WITH THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, THE JAPAN AEROSPACE EXPLORATION AGENCY, AND OTHER PUBLIC AND PRIVATE AEROSPACE-RELATED AGENCIES AND INSTITUTIONS, TO EXPAND AND DIVERSIFY THE AEROSPACE INDUSTRY THROUGH THE DEVELOPMENT OF THE PACIFIC INTERNATIONAL SPACE CENTER FOR EXPLORATION SYSTEMS.

1 WHEREAS, the Legislature recognizes the substantial
2 scientific, economic, and educational benefit and future
3 potential of Hawaii's aerospace industry; and

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5 WHEREAS, over the past four decades, the State of Hawaii
6 has engaged in and directly benefited from a variety of
7 aerospace-related initiatives, including astronomical research,
8 planetary exploration, astronaut training, space-based
9 mineralogical and oceanographic mapping, the development of
10 advanced global communications and remote sensing systems,
11 terrestrial and oceanic resource monitoring, vulcanological and
12 meteorological studies, space camp activities for Hawaii's
13 youth, the Hawaii Space Grant College program for undergraduate
14 and graduate students, and other university and private sector-
15 based research, education, and training programs; and

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17 WHEREAS, these initiatives have been funded by and continue
18 to receive annual support that exceeds \$60,000,000 for
19 university-based programs alone from the National Aeronautics
20 and Space Administration, the National Science Foundation, the
21 United States Department of Commerce, the National Oceanic and
22 Atmospheric Administration, the United States Department of
23 Energy, the United States Department of Defense, and other
24 federal and private agencies and institutions nationwide; and

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26 WHEREAS, the State of Hawaii, by virtue of its diverse
27 natural resources, resident scientific and technological



1 expertise, unique geographical terrain, and strategic mid-
2 Pacific location, is very well positioned to continue to
3 develop, grow, and sustain new aerospace-related programs and
4 activities statewide; and

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6 WHEREAS, in 2004, President George W. Bush outlined the
7 United States' vision for future space exploration, setting
8 forth goals and objectives to advance the United States'
9 scientific, security, and economic interests through a robust
10 national space program, including future robotic and manned
11 missions to the moon and Mars; and

12
13 WHEREAS, in concert with this vision, considerable
14 resources will need to be devoted to the development, testing,
15 and evaluation of new technologies to support both robotic and
16 human space missions; the training of scientists, engineers, and
17 astronauts to help design and implement these missions; and the
18 education of the general public on the opportunities and
19 benefits of space exploration; and

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21 WHEREAS, to enable and facilitate these activities, there
22 is an urgent need to develop earth-based analogue missions that
23 can:

- 24
25 (1) Simulate extraterrestrial exploration;
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27 (2) Help integrate science and mission operations, crew
28 training, technology development, and other elements
29 critical to mission design; and
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31 (3) Ultimately define and measure the benefit of space
32 exploration to humankind; and

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34 WHEREAS, the federal National Aeronautics and Space
35 Administration Authorization Act of 2006 enables the development
36 of ground-based analog capabilities in remote locations in
37 America to assist in the development of lunar operations, life
38 support, and in-situ resource utilization experience and
39 capabilities; and

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41 WHEREAS, these locations will be selected in accordance
42 with their accessibility, significant temperature extremes,
43 access to energy and natural resources, including geothermal and
44 volcanic energy, and ability to involve local populations,

1 academia and industrial partners to ensure that ground-based
2 benefits and applications are encouraged and developed; and

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4 WHEREAS, the volcanic soils and lunar-like terrain, diverse
5 multi-ethnic population, and substantial scientific and
6 technical expertise found in Hawaii make the islands an ideal
7 location to support international programs for testing and
8 evaluating innovative technologies to support future robotic and
9 manned exploration of the moon and Mars, as well as for training
10 scientists, engineers, and future astronauts for such missions;
11 and

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13 WHEREAS, these strategic assets were previously used in the
14 late 1950s and early 1960s to train astronauts, test and
15 evaluate equipment, and educate the general public in
16 preparation for the National Aeronautics and Space
17 Administration's Apollo missions to the moon; and

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19 WHEREAS, these assets closely match the selection criteria
20 for ground-based analogue capabilities as set forth in the
21 National Aeronautics and Space Administration Authorization Act
22 of 2006; and

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24 WHEREAS, through the Japan-United States Science,
25 Technology and Space Applications Program coordinated by the
26 Hawaii Department of Business, Economic Development, and
27 Tourism, a multidisciplinary team of scientists, engineers,
28 aerospace executives, university educators, and government
29 officials from the United States and Japan has developed a
30 comprehensive proposal to establish a Pacific International
31 Space Center for Exploration Systems in Hawaii; and

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33 WHEREAS, the primary objectives of the Pacific
34 International Space Center for Exploration Systems are to
35 facilitate astronaut training, aerospace education, and space
36 technology testing and evaluation in Hawaii that would
37 capitalize on the State's unique human, technological, and
38 environmental resources to support robotic and human missions to
39 the moon, Mars, and beyond; and

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41 WHEREAS, these goals closely comport with the National
42 Aeronautics and Space Administration's objectives to establish
43 remote sites with ground-analogue capabilities to support future
44 space exploration missions; now, therefore,



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2 BE IT RESOLVED by the Senate of the Twenty-third
3 Legislature of the State of Hawaii, Regular Session of 2006, the
4 House of Representatives concurring, that the Legislature, the
5 Administration, and the University of Hawaii are strongly
6 encouraged to work collaboratively with the Japan-United States
7 Science, Technology and Space Applications Program, the National
8 Aeronautics and Space Administration, the Japan Aerospace
9 Exploration Agency, and other public and private aerospace-
10 related agencies and institutions, both national and
11 international, to support the United States Space Exploration
12 Program and help expand and diversify Hawaii's aerospace
13 industry through the development of the Pacific International
14 Space Center for Exploration Systems; and
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16 BE IT FURTHER RESOLVED that the primary objectives of this
17 collaboration will be to enable the Pacific International Space
18 Center for Exploration Systems to:
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- 20 (1) Provide a testbed for the demonstration, evaluation,
21 and validation of innovative technologies to support
22 future robotic and human missions to the moon, Mars,
23 and other planetary bodies in our solar system;
24
25 (2) Facilitate the training of scientists, engineers, and
26 other professionals engaged in research and
27 development activities associated with future space
28 exploration, with an emphasis on planetary
29 geosciences, astronomy, and remote sensing;
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31 (3) Conduct in-field training programs for astronauts from
32 the United States, Japan, and other nations engaged in
33 multinational space missions;
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35 (4) Coordinate international meetings of space
36 professionals in Hawaii toward the design,
37 development, and implementation of innovative space
38 research programs; and
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40 (5) Catalyze aerospace education programs in local
41 secondary schools, community colleges, and
42 universities statewide; and
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1 BE IT FURTHER RESOLVED that the Department of Business,
2 Economic Development, and Tourism, through its Strategic
3 Industries Division, is requested to provide a central point of
4 contact to facilitate this collaboration; and

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6 BE IT FURTHER RESOLVED that the Department of Business,
7 Economic Development, and Tourism is requested to report on the
8 progress and status of this collaboration to the Legislature not
9 later than twenty days prior to the convening of the Regular
10 Session of 2007; and

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12 BE IT FURTHER RESOLVED that certified copies of this
13 Concurrent Resolution be transmitted to the Governor, the
14 President of the University of Hawaii, the Director of Business,
15 Economic Development, and Tourism, and Hawaii's congressional
16 delegation.

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19 OFFERED BY: 