

JAN 25 2017

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# A BILL FOR AN ACT

RELATING TO THE MULTINATIONAL LUNAR ARCHITECTURE ALLIANCE.

**BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:**

1           SECTION 1. The legislature finds that Hawaii's strategic,  
2 mid-Pacific, near-equatorial location; Moon/Mars-like terrain;  
3 resident expertise engaging multiple aerospace-related  
4 technologies; and long-standing ties with space-faring nations  
5 worldwide, afford strategic assets and capabilities that can be  
6 leveraged to realize humankind's full potential in space, and  
7 enable the State to engage as a major contributor and  
8 beneficiary of the global space enterprise.

9           The legislature also finds that for the past half century,  
10 Hawaii has played a seminal role in developing our national  
11 space program, beginning with astronaut training for the Apollo  
12 lunar missions and the development of world-class observatories  
13 on the Island of Hawaii. Over the past four decades, the  
14 University of Hawaii, the United States military, and numerous  
15 companies statewide have pioneered nationally-funded programs in  
16 planetary geosciences, satellite communications, space-based  
17 remote sensing and environmental monitoring, deep-space



1 surveillance, and other areas employing aerospace-related  
2 technologies. Yet, new opportunities are forthcoming in this  
3 industry that are ideally suited for the State, many of which  
4 hold substantial scientific, educational, and commercial promise  
5 for residents statewide.

6 The legislature additionally finds that an expanded and  
7 diversified space economy, based upon innovative commercial  
8 utilization of lunar resources, including lunar mining,  
9 harvesting of space-based solar power, and the development of  
10 cis-lunar propellant depots, could enrich terrestrial  
11 civilizations, help preserve the Earth's fragile environment,  
12 and ultimately enable sustainable human exploration on Mars and  
13 throughout the solar system. However, sustainable space  
14 settlement will require advances in key technologies such as  
15 life support systems, telecommunications, power generation, and  
16 food production. Terrestrial-based testing and evaluation of  
17 these technologies will play an indispensable role in their  
18 long-term development and implementation.

19 The legislature further finds that Hawaii county's Moon-  
20 like terrain affords an ideal environment for multinational  
21 teams to develop, test, and validate such technologies, which



1 subsequently would enable participation opportunities for local  
2 scientists, engineers, entrepreneurs, and students.

3       Accordingly, the purpose of this Act is to promote the  
4 formation of a multinational alliance comprised of  
5 representatives from governmental, industrial, and research  
6 institutions to provide recommendations and guidance for the  
7 development of a prototype lunar architecture on the Island of  
8 Hawaii and to support the organization and execution of an  
9 international lunar development summit in the county of Hawaii  
10 during the fall of 2017 that will help launch a prototype lunar  
11 architecture and formulate strategies for enabling public-  
12 private partnerships to promote and facilitate implementation of  
13 multinational research and commercial ventures on the Moon.

14       SECTION 2. (a) There is established the multinational  
15 lunar architecture alliance to be administratively attached to  
16 the office of aerospace development in the department of  
17 business, economic development, and tourism to guide the  
18 development and implementation of a prototype lunar architecture  
19 in the county of Hawaii.

20       (b) The alliance shall be comprised of representatives  
21 from:



- 1           (1) Hawaii-based organizations, including but not limited  
2           to the office of aerospace development, the Pacific  
3           international space center for exploration systems,  
4           and the Hawaii space exploration analog and simulation  
5           program;
- 6           (2) The National Aeronautics and Space Administration,  
7           including but not limited to the Space Portal at the  
8           National Aeronautics and Space Administration Ames  
9           Research Center and the Exploration Integration and  
10          Science Office at the Johnson Space Center;
- 11          (3) Other appropriate federal agencies, including but not  
12          limited to the Federal Aviation Administration, United  
13          States Pacific Command, and United States Army Pacific  
14          Command;
- 15          (4) Other national space agencies;
- 16          (5) The Lunar Exploration and Analysis Group;
- 17          (6) The Universities Space Research Association, including  
18          the Lunar and Planetary Institute;
- 19          (7) Major corporations representing aerospace, information  
20          technology, renewable energy, robotics, manufacturing,  
21          and other appropriate industrial sectors;



1           (8) National space advocacy organizations, including but  
2           not limited to the National Space Society, Lunar  
3           Explorers Society, Space Frontiers Foundation, and  
4           American Astronautical Society;

5           (9) International space agencies and organizations,  
6           including but not limited to the International Lunar  
7           Exploration Working Group, International Space  
8           Exploration Coordination Group, and Committee on Space  
9           Research; and

10          (10) The United Nations Office for Outer Space Affairs.

11          (c) The alliance shall hold its first organizational  
12          teleconference, coordinated by the office of aerospace  
13          development, by August 1, 2017.

14          (d) Working in collaboration with the office of aerospace  
15          development, the alliance shall develop an agenda and  
16          invitational list for staging an international lunar development  
17          summit in the county of Hawaii in October 2017. The summit  
18          shall focus on identifying the major goals and challenges  
19          associated with the design and validation of a prototype lunar  
20          architecture in Hawaii, as well as formulation of strategies for  
21          enabling public-private partnerships to support the organization

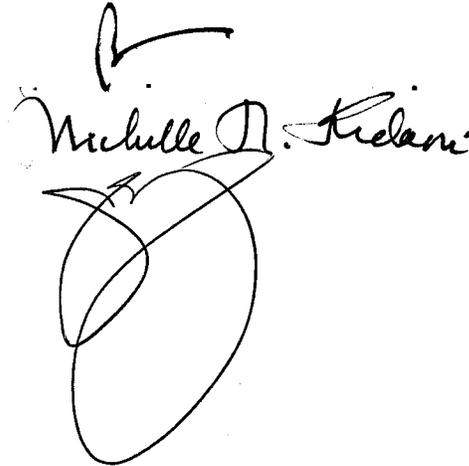


1 and implementation of multinational research activities and  
2 commercial ventures on the lunar surface and in cis-lunar space.

3 SECTION 3. This Act shall take effect on July 1, 2017.

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INTRODUCED BY: Will Eyo

A large, stylized handwritten signature in black ink, consisting of several loops and a long horizontal stroke.A handwritten signature in black ink that reads "Michelle D. Kelani" above a large, circular, stylized flourish.

# S.B. NO. 1246

**Report Title:**

Multinational Lunar Architecture Alliance; Office of Aerospace Development; Lunar Development Summit

**Description:**

Establishes the multinational lunar architecture alliance to be administratively attached to the office of aerospace development in the department of business, economic development, and tourism to guide the development and implementation of a prototype lunar architecture in the county of Hawaii. Requires the alliance to conduct its first teleconference by 8/1/17. Requires the alliance to stage a lunar development summit in Hawaii county in October 2017.

*The summary description of legislation appearing on this page is for informational purposes only and is not legislation or evidence of legislative intent.*

