

STAND. COM. REP. NO. 3180

Honolulu, Hawaii

APR 02 2014

RE: S.R. No. 40

Honorable Donna Mercado Kim
President of the Senate
Twenty-Seventh State Legislature
Regular Session of 2014
State of Hawaii

Madam:

Your Committees on Public Safety, Intergovernmental and Military Affairs and Economic Development, Government Operations and Housing, to which was referred S.R. No. 40 entitled:

"SENATE RESOLUTION COMMENDING AND SUPPORTING THE PACIFIC INTERNATIONAL SPACE CENTER FOR EXPLORATION SYSTEMS' COLLABORATIVE WORK WITH THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AND PRIVATE INDUSTRIES IN THE AREAS OF BASALTIC CONCRETE AND ADDITIVE MANUFACTURING AND REQUESTING COLLABORATION TO EXPLORE OPPORTUNITIES FOR APPLICATIONS OF BASALTIC CONCRETE AND ADDITIVE MANUFACTURING,"

beg leave to report as follows:

The purpose and intent of this measure is to:

- (1) Commend and support the Pacific International Space Center for Exploration Systems' (PISCES) collaborative work with the National Aeronautics and Space Administration (NASA) and private industries in the areas of basaltic concrete and additive manufacturing; and
- (2) Request the State to collaborate with PISCES, county agencies, and private industries to explore opportunities for applications of basaltic concrete and additive manufacturing to reduce Hawaii's dependence on imported concrete.

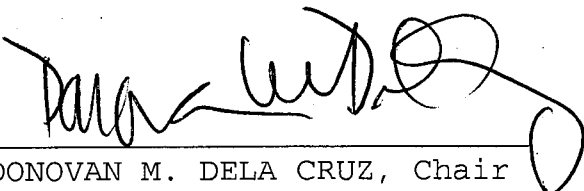


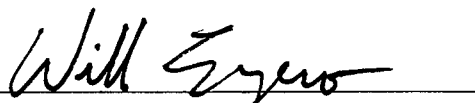
Your Committees received testimony in support of this measure from the Department of Business, Economic Development, and Tourism; PISCES; and three individuals.

Your Committees find that as a result of the similarity of Hawaii's volcanic dust and lava to the regolith on the surface of the moon and Mars, PISCES is assuming a global leadership role in the development of technologies that potentially will support the manufacture of concrete and other materials that may be used to construct facilities on other planetary bodies. Research and development to support innovative technologies in basalt concrete composition and delivery is an attractive and self-sustaining alternative to continued reliance on cement and bitumen imports. PISCES has entered into research and development alliances with various private industry partners and has been invited by NASA to participate in a two-to-three year NASA research program on three-dimensional additive construction using basalt regolith. PISCES has secured a leadership role for the State in the maturation of these pioneering technologies and advancing the future well-being of the State.

As affirmed by the records of votes of the members of your Committees on Public Safety, Intergovernmental and Military Affairs and Economic Development, Government Operations and Housing that are attached to this report, your Committees concur with the intent and purpose of S.R. No. 40 and recommend its adoption.

Respectfully submitted on
behalf of the members of the
Committees on Public Safety,
Intergovernmental and Military
Affairs and Economic
Development, Government
Operations and Housing,

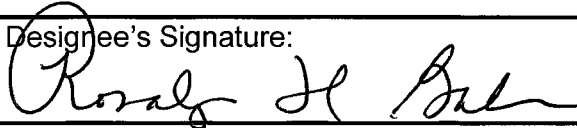

DONOVAN M. DELA CRUZ, Chair


WILL ESPERO, Chair



The Senate
 Twenty-Seventh Legislature
 State of Hawai'i

Record of Votes
Committee on Public Safety and Military Affairs
PSM

Bill / Resolution No.:* SR 40	Committee Referral: PSM/EGH	Date: 3-31-2014		
<input type="checkbox"/> The committee is reconsidering its previous decision on this measure. If so, then the previous decision was to: _____				
The Recommendation is: <input checked="" type="checkbox"/> Pass, unamended 2312 <input type="checkbox"/> Pass, with amendments 2311 <input type="checkbox"/> Hold 2310 <input type="checkbox"/> Recommit 2313				
Members	Aye	Aye (WR)	Nay	Excused
ESPERO, Will (C)	✓			
BAKER, Rosalyn H. (VC)	✓			
GALUTERIA, Brickwood				✓
GREEN, M.D., Josh				✓
SLOM, Sam	✓			
TOTAL	3	-	-	2
Recommendation: <input checked="" type="checkbox"/> Adopted <input type="checkbox"/> Not Adopted				
Chair's or Designee's Signature: 				
Distribution: Original Yellow Pink Goldenrod File with Committee Report Clerk's Office Drafting Agency Committee File Copy				

*Only one measure per Record of Votes

The Senate
 Twenty-Seventh Legislature
 State of Hawai'i

Record of Votes
Committee on Economic Development, Government Operations and Housing
EGH

Bill / Resolution No.:* 8440	Committee Referral: PSM / EGH	Date: 3/31/14		
<input type="checkbox"/> The committee is reconsidering its previous decision on this measure. If so, then the previous decision was to: _____				
The Recommendation is: <input checked="" type="checkbox"/> Pass, unamended 2312 <input type="checkbox"/> Pass, with amendments 2311 <input type="checkbox"/> Hold 2310 <input type="checkbox"/> Recommit 2313				
Members	Aye	Aye (WR)	Nay	Excused
DELA CRUZ, Donovan M. (C)	X			
SLOM, Sam (VC)	X			
BAKER, Rosalyn H.				X
CHUN OAKLAND, Suzanne	X			
ENGLISH, J. Kalani	X			X
THIELEN, Laura H.	X			
WAKAI, Glenn	X			
TOTAL	5	0	0	2
Recommendation: <input checked="" type="checkbox"/> Adopted <input type="checkbox"/> Not Adopted				
Chair's or Designee's Signature: 				
Distribution: Original Yellow Pink Goldenrod File with Committee Report Clerk's Office Drafting Agency Committee File Copy				

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