

SIXTIETH DAY

Thursday, May 4, 2017

The Senate of the Twenty-Ninth Legislature of the State of Hawai'i, Regular Session of 2017, convened at 12:04 p.m. with the President in the Chair.

The Roll was called showing all Senators present.

The President announced that he had read and approved the Journal of the Fifty-Ninth Day.

At this time, Senator Nishihara recognized the following members of his office staff, who were present in the gallery: Priscilla Kubota, office manager; Alec Ikeda, committee clerk; and Jaren McCartney, legislative aide

Senator Nishihara also acknowledged Kat Brady and her husband, who were seated in the gallery.

Senator Espero thanked the following members of his office staff, who were in the gallery, for doing an excellent job: session staff Carolyn Weygan-Hildebrand and Ann Oshita, and permanent staff Marlene Uesugi and Ryan Toyomura.

Senator Gabbard thanked all his staff and acknowledged Kendall Andrews, a student intern from Hawai'i Pacific University, who was present in the gallery with his parents, Steve and Becky Andrews, who were visiting from Utah. Kendall Andrews was then presented with a congratulatory Senate certificate in the gallery, with Senator Gabbard's thanks and best wishes for continued success.

Senator Rhoads introduced Leilani Carreo, a student of journalism at the University of Hawai'i, who had been working in the governor's office for the past few months. Accompanying Ms. Carreo in the gallery was Cindy McMillan, Senator Rhoads's wife and favorite constituent.

Senator Rhoads also introduced the following members of his office staff: Jessie Faige, committee clerk and legal counsel for the past five legislative sessions; Pamela Ono, longtime legislative aide; Toni Difante, intern from Hawai'i Pacific University; Karen Carlen, volunteer; Irene Chen, volunteer; and Sonny Le, office manager, whose last day it was at the Legislature. Senator Rhoads thanked Sonny Le for all his hard work and for being even-tempered, especially when facing the challenges of working in a House and Senate office, and wished him all the best.

Senator Keith-Agaran acknowledged members of his staff: Moya Davenport Gray, Manu Tupper, Taylor Chee, University of Hawai'i intern Andrew Carmody, Ashlee Affonso, and committee clerk Danielle Evangelista.

Senator Inouye thanked her staff for their work, and recognized Wesley Smith, an intern from the University of Hawai'i at Mānoa, who would be graduating and continuing on to his home state of California to attend the University of Southern California in pursuit of a master's degree. Senator Inouye also acknowledged Jennifer Belon, who would also be graduating from the Mānoa campus and continuing her studies there towards a master's degree.

Senator English introduced his longtime staff members Aunty Libby, Cissy Rees, and Sharon Lum Ho; as well as his newest staff member, Jacob Aki.

Senator Shimabukuro welcomed several constituents and friends who were present in the gallery: Keali'i Lopez from Alston Hunt Floyd & Ing; Sara Perry from Senator Inouye's office; Bob Nakata, former State Senator; Rogie Tolentino, a law school classmate; Ken Farm; Raytan; and other friends.

Senator Thielen acknowledged her staff members Jennifer Barra, Eliza Wilcox, Natalia Hussey-Burdick, and Zachary Espinoza, and expressed her appreciation for their help.

Senator Thielen also introduced Donna Wong, an environmental advocate in the Kailua community, who was present in the gallery.

On behalf of Senate President Kouchi, Senator Dela Cruz introduced Kelvin Moniz, executive director of the Kaua'i Independent Food Bank, who was seated in the gallery.

Senator English welcomed a group of students from Pukalani Elementary School, who were seated in the gallery.

Senator Galuteria thanked Raytan Vares, a member of his staff, for his hard work during session. Senator Galuteria also acknowledged his office manager, Tommie Suganuma, and thanked her for providing delicious refreshments for the caucus meetings.

Senator Galuteria also welcomed labor union members, who were present in the gallery and were wearing pink shirts.

Senator Espero extended thanks to support staff offices including Senate Majority Research, the Legislative Reference Bureau, Senate Data Systems, Senate Accounting, Senate Supply, and other support staff offices.

Senator Baker thanked the Senate Sergeant-at-Arms office and Senate Clerk's office for their support and assistance throughout the legislative session.

The Chair recognized his session staff member, Tyris Tominaga, and praised him for being an excellent cook, a wonderful driver, and a fine young man.

The Chair also extended happy birthday wishes to United States Representative Colleen Hanabusa.

HOUSE COMMUNICATIONS

The following communications from the House (Hse. Com. Nos. 642 to 644) were read by the Clerk and were placed on file:

Hse. Com. No. 642, informing the Senate that on May 2, 2017, the following bills passed Final Reading in the House of Representatives:

H.B. No. 2, H.D. 2, S.D. 1, C.D. 1;
 H.B. No. 50, H.D. 3, S.D. 2, C.D. 1;
 H.B. No. 73, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 83, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 89, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 100, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 110, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 115, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 116, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 143, S.D. 1, C.D. 1;
 H.B. No. 144, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 165, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 186, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 192, H.D. 2, S.D. 1, C.D. 1;
 H.B. No. 208, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 209, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 213, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 235, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 239, H.D. 2, S.D. 1, C.D. 1;
 H.B. No. 279, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 280, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 281, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 282, H.D. 1, S.D. 1, C.D. 1;

H.B. No. 301, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 306, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 335, H.D. 2, S.D. 1, C.D. 1;
 H.B. No. 375, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 423, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 425, H.D. 1, S.D. 3, C.D. 1;
 H.B. No. 427, H.D. 2, S.D. 1, C.D. 1;
 H.B. No. 428, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 451, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 453, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 459, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 471, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 475, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 478, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 498, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 508, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 511, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 523, S.D. 1, C.D. 1;
 H.B. No. 530, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 552, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 554, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 558, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 561, H.D. 2, S.D. 1, C.D. 1;
 H.B. No. 571, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 575, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 591, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 606, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 607, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 615, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 627, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 632, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 633, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 637, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 655, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 674, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 727, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 735, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 794, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 839, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 845, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 847, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 852, H.D. 2, S.D. 1, C.D. 1;
 H.B. No. 880, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 916, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 937, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 942, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 957, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 997, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 1009, H.D. 3, S.D. 1, C.D. 1;
 H.B. No. 1022, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 1031, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1033, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1044, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 1098, H.D. 2, S.D. 1, C.D. 1;
 H.B. No. 1099, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 1114, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 1115, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1129, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1130, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1135, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 1152, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 1179, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 1231, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1235, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1244, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 1246, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 1258, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 1325, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1351, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 1382, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1396, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 1414, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1420, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1436, H.D. 2, S.D. 1, C.D. 1;
 H.B. No. 1444, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 1465, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 1475, H.D. 2, S.D. 2, C.D. 1;
 H.B. No. 1488, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1498, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1501, H.D. 2, S.D. 1, C.D. 1;
 H.B. No. 1516, H.D. 1, S.D. 1, C.D. 1;
 H.B. No. 1578, H.D. 1, S.D. 2, C.D. 1;
 H.B. No. 1588, H.D. 1, S.D. 1, C.D. 1;
 S.B. No. 26, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 99, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 100, S.D. 2, H.D. 1, C.D. 1;
 S.B. No. 102, H.D. 1, C.D. 1;
 S.B. No. 119, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 149, H.D. 1, C.D. 1;
 S.B. No. 207, S.D. 2, H.D. 2, C.D. 1;
 S.B. No. 288, S.D. 2, H.D. 2, C.D. 1;
 S.B. No. 292, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 314, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 322, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 339, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 369, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 376, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 387, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 396, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 407, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 423, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 469, S.D. 2, H.D. 1, C.D. 1;
 S.B. No. 488, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 491, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 501, S.D. 1, H.D. 2, C.D. 1;
 S.B. No. 505, S.D. 1, H.D. 2, C.D. 1;
 S.B. No. 513, S.D. 1, H.D. 2, C.D. 1;
 S.B. No. 514, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 545, S.D. 2, H.D. 1, C.D. 1;
 S.B. No. 559, S.D. 1, H.D. 2, C.D. 1;
 S.B. No. 572, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 584, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 609, H.D. 1, C.D. 1;
 S.B. No. 611, S.D. 1, H.D. 2, C.D. 1;
 S.B. No. 655, S.D. 2, H.D. 2, C.D. 1;
 S.B. No. 712, H.D. 1, C.D. 1;
 S.B. No. 713, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 718, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 722, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 724, H.D. 1, C.D. 1;
 S.B. No. 773, S.D. 2, H.D. 1, C.D. 1;
 S.B. No. 786, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 808, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 850, H.D. 2, C.D. 1;
 S.B. No. 859, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 865, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 885, S.D. 2, H.D. 2, C.D. 1;
 S.B. No. 895, S.D. 1, H.D. 2, C.D. 1;
 S.B. No. 900, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 902, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 908, S.D. 1, H.D. 2, C.D. 1;
 S.B. No. 911, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 914, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 915, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 917, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 918, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 919, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 923, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 926, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 930, S.D. 2, H.D. 1, C.D. 1;
 S.B. No. 935, S.D. 2, H.D. 1, C.D. 1;
 S.B. No. 936, S.D. 2, H.D. 1, C.D. 1;

S.B. No. 941, H.D. 1, C.D. 1;
 S.B. No. 946, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 947, S.D. 2, H.D. 1, C.D. 1;
 S.B. No. 948, H.D. 1, C.D. 1;
 S.B. No. 949, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 950, S.D. 2, H.D. 1, C.D. 1;
 S.B. No. 951, S.D. 2, H.D. 1, C.D. 1;
 S.B. No. 952, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 953, S.D. 2, H.D. 1, C.D. 1;
 S.B. No. 976, H.D. 1, C.D. 1;
 S.B. No. 984, H.D. 1, C.D. 1;
 S.B. No. 992, S.D. 2, H.D. 1, C.D. 1;
 S.B. No. 997, S.D. 1, H.D. 2, C.D. 1;
 S.B. No. 1006, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 1016, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 1073, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 1074, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 1171, S.D. 1, H.D. 1, C.D. 1;
 S.B. No. 1227, H.D. 2, C.D. 1;
 S.B. No. 1240, S.D. 2, H.D. 1, C.D. 1;
 S.B. No. 1244, S.D. 2, H.D. 2, C.D. 1;
 S.B. No. 1264, S.D. 1, H.D. 2, C.D. 1; and
 S.B. No. 1286, S.D. 2, H.D. 2, C.D. 1.

Hse. Com. No. 643, informing the Senate that on May 2, 2017, the House agreed to the amendments proposed by the Senate and passed the following bills on Final Reading:

H.B. No. 90, H.D. 1, S.D. 2;
 H.B. No. 733, H.D. 1, S.D. 2;
 H.B. No. 1230, H.D. 1, S.D. 2; and
 H.B. No. 1333, H.D. 1, S.D. 1.

Hse. Com. No. 644, informing the Senate that on May 2, 2017, the House agreed to the amendments proposed by the Senate and Finally Adopted the following House concurrent resolutions:

H.C.R. No. 26, S.D. 1;
 H.C.R. No. 27, S.D. 1;
 H.C.R. No. 35, H.D. 1, S.D. 1;
 H.C.R. No. 56, S.D. 1;
 H.C.R. No. 60, S.D. 1;
 H.C.R. No. 78, H.D. 1, S.D. 1;
 H.C.R. No. 97, S.D. 1;
 H.C.R. No. 104, S.D. 1;
 H.C.R. No. 105, S.D. 1;
 H.C.R. No. 148, S.D. 1;
 H.C.R. No. 152, S.D. 1;
 H.C.R. No. 153, H.D. 1, S.D. 1; and
 H.C.R. No. 164, S.D. 1.

ORDER OF THE DAY

FINAL READING

S.B. No. 382, S.D. 2, H.D. 1, C.D. 2:

On motion by Senator Baker, seconded by Senator Nishihara and carried, S.B. No. 382, S.D. 2, H.D. 1, C.D. 2, entitled: "A BILL FOR AN ACT RELATING TO THE PUBLIC UTILITIES COMMISSION," having been read throughout, passed Final Reading on the following showing of Ayes and Noes:

Ayes, 24. Noes, 1 (Ruderman).

S.B. No. 1183, S.D. 2, H.D. 2, C.D. 2:

At this time, the Chair made the following statement:

"Members, we do not have a bill that matches the House. I know you will, hopefully, join me in being prepared to come back in special session if that's required if we can find a path where we can come to some form of agreement, but, with lack

of agreement at this time, if there are no objections, I'm recommitting Senate Bill 1183, Conference Draft 2."

By unanimous consent, S.B. No. 1183, S.D. 2, H.D. 2, C.D. 2, entitled: "A BILL FOR AN ACT RELATING TO TAXATION," was recommitted to the Committee on Conference.

SENATE RESOLUTIONS

The following resolutions (S.R. Nos. 96 and 97) were read by the Clerk and were disposed of as follows:

S.R. No. 96 "SENATE RESOLUTION REGARDING COMPLETION OF THE WORK OF THE TWENTY-NINTH LEGISLATURE, REGULAR SESSION OF 2017, SUBSEQUENT TO THE ADJOURNMENT THEREOF."

Offered by: Senator English.

On motion by Senator Espero, seconded by Senator English and carried, S.R. No. 96 was adopted.

S.R. No. 97 "SENATE RESOLUTION INFORMING THE HOUSE AND GOVERNOR THAT THE SENATE IS READY TO ADJOURN SINE DIE."

Offered by: Senator English.

On motion by Senator Espero, seconded by Senator English and carried, S.R. No. 97 was adopted.

At this time, Senator Kim rose on a point of personal privilege to thank members of her staff for their support and help during the legislative session: office manager Lisa Vargas Omo; committee clerk Nancy Bernal; and session hires Gregg Hirata and Colleen Takenouchi.

Senator English rose to speak on a point of personal privilege as follows:

"Members, I'd like to insert into the Journal a number of documents concerning rat lungworm and the distribution of the disease throughout Hawai'i – one is a chart that shows where the disease is on each island, and it shows the presence of it from Kaua'i, O'ahu, Moloka'i, Lāna'i, Maui, and Hawai'i Island; and some other documents with background information. I'd also like to say that this has been a rather contentious issue, but I hope we can get beyond the political debate on it and get down to taking care of how we're going to deal with the disease because it's rampant in many of our districts, and for those of you who have not dealt with it in your district, it's coming soon because it's spreading very, very quickly. We've given a lot of resources to the Department of Health, which I think is the appropriate agency, but we also have to give them the guidance to do this properly, which we'll be doing.

"I can tell you that, in my district, we have moved very quickly without waiting for outside help because in Hāna and east Maui, in the early 2000s, we dealt with an outbreak of dengue, and our response was a very quick response and we were able to eradicate it. With this particular disease, because of the vectors, this new introduced semi-slug, it's a very, very quick-moving vector and it distributes this disease very, very quickly. We're having to take really drastic action. I'm willing to share this with all of you because if this comes up in your districts, then you'll be able to have a quick response and work in partnership with all of the agencies to deal with this disease. Thank you, Mr. President."

The Chair having so ordered, the documents are identified as "ATTACHMENT A" to the Journal of this day.

Senator Thielen rose to speak on a point of personal privilege as follows:

“Thank you, Mr. President. Because, in the discussion that we had earlier on recommitting Senate Bill 1183, the potential of a special session was raised, I feel compelled to rise to make some comments on the rail project. Five years ago, when I was running for office, there was a candidate for mayor running at the same time who promised over and over again at many of the campaign events we both attended to build rail on time and on budget. At that time, the estimated cost for rail was \$5 billion. Two years ago, that same person came to the Legislature to ask for an extension of the rail tax, received a five-year extension from this body, and said that they wouldn’t be back. Now, we have the same person in front of the Legislature asking for yet another extension, and we’re being told that even a 10-year extension will not pay for rail. The estimated cost now is \$10 billion, and that’s before we’ve put out the contracts for the most expensive portion of the rail construction through the urban core. We’re being told by the mayor that we need to build rail; we need to finish it. I want to point out, originally, the project was to UH. We’re being told now that ‘finishing’ is to Ala Moana.

“But while the mayor is the poster boy for finishing rail at all costs, I really want to direct my remarks today to all the civic leaders who are saying the same thing, that we must finish rail at any cost. I want to point out that we’re not talking about a \$10 billion project now; we’re talking about a project that is going to forego the opportunity to address the infrastructure needs that we have in Honolulu and across our state. If we could contain the rail costs, we could also build the affordable housing and workforce housing that’s needed along the rail line that we were promised as part and parcel with the rail project. But as everybody in this room knows, the water and infrastructure lines surrounding those properties are insufficient to be able to build additional housing along the rail. How are we going to build a \$10 billion-plus rail project **and** fix those water and sewer lines to build the workforce housing? If we were going to spend a hundred million dollars on revising the rail project and we were able to save a billion dollars, we would come out \$900 million ahead. What could we do with \$900 million in this state? We could fix those water and sewer infrastructure lines. We could fix the Banyan Drive infrastructure so that we could revitalize the hotels there, and we could direct tourists to an economy on the Big Island that needs it and give some relief to the communities on O’ahu that are suffering from too much. We could put photovoltaics on the rooftops of all of our schools, air-condition every single classroom, and not have to pay the utility bills, which would free up a lot of our operating budgets at the state level. We could build shelters with mental health and social services for the chronic homeless to get them into a safer living situation and out of our beach parks, and also revitalize those parks and the infrastructure there for our residents and our visitor communities. If we continue to build rail **at any cost**, what we’re being asked to do is to build rail at the opportunity of doing all those other things.

“The federal government, FTA, in one of their e-mails a while ago, made the comment that the city never has time to do it right, but they always have time to do it over. Many people are frustrated that the Legislature didn’t extend the tax and continue the rail project this session. What I want to say is that we’ve given everybody a gift: We’ve given the city a gift of time to do it right. This is not anti-trade. There are so many jobs and so many projects that we could be doing in addition to rail, but the mismanagement of this project, the lack of fiscal responsibility – we’re at the point now where not only has it jeopardized the city where the city can no longer be independently operated without having to rely on state tax revenues, we are now getting to the point where it’s

jeopardizing the state as well. And the civic leaders who have been standing behind the city and saying, ‘Build this at any cost’ bear a share of responsibility because if they spent one-tenth of the amount of energy asking the city to be fiscally responsible, we would not be in this position. So I’m asking everybody, in this hiatus that we have right now, to go back and revisit the project. Don’t be penny wise and pound foolish. Spending a hundred million dollars to save \$900 million, \$2 billion, is what we need now. Who looks at a project that is double to triple the size of the original budget and says, ‘We cannot change a thing’? If you take that attitude, you are foregoing the ability to build workforce housing so Hawai’i residents can stay in urban Honolulu and not have to go to the mainland. We’re foregoing the opportunity to address the homeless problem, to address classrooms that are crumbling and don’t have the electrical and wiring infrastructure to deal with modern curriculum needs. We need to re-look at this project, so please take advantage of this break and do not just come back to the Legislature to ask us to extend the tax without having some type of responsibility over the project. Thank you.”

Senator Inouye rose on a point of personal privilege to introduce members of the masons union, operating engineers, and other labor groups, who were present in the gallery and were wearing pink and orange shirts, and thanked them for all they do for Hawai’i nei and for their rare and unusual appearance in the gallery.

Senator Kidani rose to speak on a point of personal privilege as follows:

“You know, I just felt a need to say something about Senate Bill 1183 and the rail project. I’d like to remind this body that when H-3 was built, it took over 30 years, and those on the west side and Central O’ahu, where I represent, didn’t complain that our state dollars had to help those on the windward side. And there are three holes in the mountain: Pali, Likelike, H-3. But yet, in the last 50 years, development of homes, et cetera, have been all on the West and Central O’ahu side. The infrastructure has not kept up, and it takes us so long to get into town. And I would just remind this body that what’s fair is fair, and all of us deserve to pay for infrastructure that everyone will use and, even if they don’t use it, we have paid infrastructure for something they have used. So thank you very much.”

Senator Kim rose to speak on a point of personal privilege as follows:

“Mr. President, I have to say some comments about 1183 but, more to the point of what was said in the newspapers, what is being said by the editorial, to be blaming the state for the fact that the city may have to use property taxes, that because we didn’t come to some kind of agreement we are the ones to be blamed: Let me remind everyone that this is a city project; we were not part of the discussion when it was brought up. It was told that it was going to be on time and on budget. The public were fooled! If the public knew at that time that they would need their property taxes in order to pay for rail or they’d need to have their GET raised in order to pay for rail, I don’t know that the public would have voted the way they did to support rail. And don’t mistake it: I have supported rail from when I was on the city council, and I said then that if we didn’t build it then, with 90-10 monies from the feds, we would not be able to afford this project in the future, which is where we’re at. So let’s just get it on the record – you know, we are not the ones that are causing the city to raise the property taxes. They should have known these things were going to happen. They shouldn’t have fooled the public into thinking that any city project would have come in on budget and on time. Thank you.”

At this time, the Chair made the following announcement:

“Members, at this time we will be taking a short recess to inform the House that the Senate is ready to adjourn sine die.”

At 12:32 p.m., the Senate stood in recess subject to the call of the Chair.

The Senate reconvened at 12:41 p.m.

Senator Tokuda rose to speak on a point of personal privilege as follows:

“I know that there are a number of changes that are probably afoot in the weeks to come, and I am sure there are a number of things that people expect me to say, reflecting how I’ve been feeling these last few days, even weeks and months. Some may even cringe a little as I get up to speak; there might be an awkward silence that comes across the Senate Chamber as well. So I once again sought the wisdom from my good old friend, Dr. Seuss, as I contemplated my thoughts for today, and he said, ‘If things start happening, don’t worry. Don’t stew. Just go right along, and you’ll start happening, too.’ And so I’d like to take this moment to say thank you to all of you for giving me the opportunity to serve as your Ways and Means chair for the past three years. While it has by no means been easy, I stew not on that, but instead the good things that we were able to make happen across our entire state, in all of our communities. Thank you for giving me the chance to work with you, sitting side by side, talking with community groups in your districts, visiting schools and places that were important to you and your constituents. I do believe we have made a significant difference in people’s lives and impacted greatly the way programs and services are delivered statewide, despite limited resources, and I am very grateful for the opportunity to have played even a small role in all of it.

“I especially want to thank my two Ways and Means vice chairs – you, Senate President, were once in that seat as well. It is not easy making these decisions, and having someone by your side that you can trust is especially important. Thank you to both of you for being there for me and the team to help get us through the CIP portions of the budget and for sitting by me during some very tough votes. Having someone by your side means a lot when you’re faced with difficult decisions and limited to no answers. I appreciate you both for being there for me. It has been most humbling and such a pleasure working with our executive departments and engaging members of the public these past few years as we’ve tackled some of Hawai‘i’s gnarliest issues. Thank you for being there to provide input, for disagreeing with me, for challenging me, for making me a better chair, for helping all of us make better decisions. Mahalo.

“Dan Boylan once called us ‘Da Sistahs,’ and Chair Luke has truly become like one to me through all of this. Some have frowned on how well we work together; I have always viewed working well with my House counterpart as an asset, not a liability. That’s how we should all do the work of the people – focused on the common good. My most heartfelt thanks to her and her team – to Vice Chair Cullen and her committee. It has been such an honor and a pleasure working with them.

“To my office team: Darlene, Nic, Kate, and Vaughn – there are just no words that I can express. You are a member of my family; I could not have gotten through any of this, all the highs and the lows, without you. I have so much I could tell you, but I’d probably start to cry, so I’m just not going to say any of them, but you know exactly what you mean to me, and I appreciate every minute that you’re part of my life.

“To my Ways and Means team: In all honesty, the hardest part of this whole reorg was that I’d have to part ways with all of you. The late nights; the stress; the begging for money; people complaining, asking for all of this – I can totally get rid

of all of that, trust me, and I pass it on to whoever comes next. But my WAMily – the Ways and Means team, the session staff you grow to love each year and can’t figure out how to part with – that’s the hardest part. So I’m just going to stop because I’m totally pulling a Susie right now; sorry, I didn’t mean that.

“But, you know, as a Star Wars mama, I think only of what Shmi Skywalker told a very scared little Anakin about to face a brave new world full of opportunities: ‘You can’t stop change any more than you can stop the suns from setting.’ While my time as WAM chair has clearly ended and this sun has set, I am really excited about the opportunities on my horizon and where my sun will rise next. This isn’t the end; it’s clearly just the beginning. Thank you for allowing me this opportunity, and I stand ready to serve you, my colleagues and the Senate, in any way I may be helpful going forward. And ‘May the Fourth’ be with you. Thank you.”

Senate President Kouchi then presented his closing remarks as follows:

“In closing, I, too, want to convey to all of our permanent staff, the session employees – who I had a chance to address yesterday – all of our full-time employees, our gratitude for the hard work that you’ve put in, from the wonderful ladies who are cleaning the restrooms and cleaning our offices with such a cheery disposition, making my day when they come in in the afternoon when I’m tired and down and they’re so upbeat. And as a team, every single piece has to work together in unison or we will not succeed. And in this building, there are no secrets, and so that staff has been performing under very trying and tense conditions, and you define greatness by how you respond in times of adversity, and I can tell you you are a truly great staff, support staff, for the professional way that you’ve served each and every one of the 25 members during this legislative session.

“I closed on such a happy note last year, telling the Clerk what a thrill it was to hear her say, ‘Twenty-five present’ at the end of her roll call, as we had lost our beloved colleague Gil Kahele right at the very start, health problems with Senators Harimoto and Slom, deaths in the family for so many of us with our direct members’ parents and siblings. But I come here and say this has been a difficult session. I appreciate all of you working as professionally as you can to get us to the finish.”

ADJOURNMENT

Senator Espero moved that the Senate of the Twenty-Ninth Legislature of the State of Hawai‘i, Regular Session of 2017, adjourn Sine Die, seconded by Senator English and carried.

At 12:50 p.m., the President rapped his gavel and declared the Senate of the Twenty-Ninth Legislature of the State of Hawai‘i, Regular Session of 2017, adjourned Sine Die.

ATTACHMENT A

CAUTION AND PREVENTION OF RAT LUNGWORM DISEASE



Wash vegetables and fruits thoroughly. The small slugs can remain undetected in the tight folds of leaf growth at base of plant stalks.



Cooking and steaming is the safest practice. Please teach your children these healthy practices and share this information with your friends and neighbors.

SYMPTOMS

Rat lungworm can cause a disease affecting the brain and spinal cord. Symptoms may include severe headache, stiffness of the neck and back, skin tingling, pain and sensitivity to light, hallucinations, nausea, vomiting, and sometimes coma and death. The symptoms vary from person and person.

TREATMENT

There is no specific treatment for the disease. However, the parasites cannot age or reproduce in humans and will eventually die. Treatment and pain medication can be given to relieve the symptoms.

DETECTION

The State laboratories division can detect rat lungworm disease through a DNA or blood test. More commonly, diagnosis is based on a patient's exposure history such as travel to infected areas or ingesting raw or undercooked snails or slugs.

TAKE ACTION NOW

Prevention and control of the disease is important to avoid the disease from spreading.

- Control the rodent population by using appropriate traps.
- Avoid eating raw or undercooked snails or slugs, which may be in vegetables or on fruits.
- Use gloves to thoroughly wash and inspect fresh produce and vegetables, especially if eaten raw.
- Eliminate snails and slugs near houses and in the garden. Do not handle slugs/snails! Use tongs or chopsticks to dispose.
- Dispose of snails and slugs by burying deep in the ground to avoid rodent, animal or human contact.

J. KALANI ENGLISH
Senate Majority Leader
COMMITTEES

Vice Chair, Senate Committee on International Affairs and the Arts

Member, Senate Committee on Hawaiian Affairs

Member, Senate Committee on Transportation and Energy

Member, Senate Committee on Ways & Means



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Vol.17 Issue 6 pg.2 - April 5, 2017

SENATOR J. KALANI ENGLISH
HAWAII STATE SENATE 7TH DISTRICT

HANA, EAST AND UPCOUNTRY MAUI,
MOLOKA'I, LANAI AND KAHOLAWE



RAT LUNGWORM DISEASE
COMMUNITY ACTION ALERT

Rat lungworm disease has been found in our district. Therefore, we must take immediate action to control and eliminate the spread of the disease.

In March, the State Health Department confirmed a case of rat lungworm disease on Maui and is investigating four more cases. Rat lungworm is caused by a round worm parasite. The adult parasite is only found in rats. The infected rats can pass the larvae in their droppings. Snails and slugs become infected by eating the larvae. People can get the disease by eating raw produce with tiny snails or slugs that have eaten the lungworms. We might also get the disease from eating undercooked freshwater prawns/frogs that have become infected from water contacting infected slugs and snails.

The State Department of Health, State laboratories division can diagnose rat lungworm disease through a test of cerebral spinal fluid (lumbar puncture), though initially blood abnormalities increase our suspicion. Most importantly suspicion is based on a patient's exposure history, such as travel to infected areas, eating raw or undercooked snails or slugs, and their consumption and preparation of raw fruits/vegetables. There is no specific treatment for the disease. However, the parasites cannot age or reproduce in humans and will eventually die. Supportive and pain medication can be given to relieve the symptoms.

Until March, most of the cases occurred on Hawaii Island. Tricia Mynar was diagnosed with the disease after feeling her first symptoms on Feb. 24. She is a preschool teacher for Kamehameha Schools on Maui and had been temporarily assigned to work on Hawaii Island, where the disease is prevalent. At first, Mynar had flu like symptoms, soon she was experiencing severe back pain. Her doctor gave her a blood test and the results showed that she had rat lungworm disease. The results in other patients exposed on Maui (Hana) confirm rat lungworm disease is here.

Therefore, our communities need to take immediate action through prevention and control of the disease. First, the community must control the rodent population by using appropriate traps. Secondly, DO NOT eat raw or undercooked snails or slugs, which may be in vegetables or on fruits. Thoroughly wash and inspect fresh produce and vegetables, especially if eaten raw. Finally, eliminate snails and slugs near houses and in the garden. If you have suspicious symptoms see your physician.

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SPECIAL EDITION

RESOURCES

- ▶ CDC's website: https://www.cdc.gov/parasites/angiostrongylus/gen_info/faqs.html
- ▶ Hawai'i State Dept. Of Health website: http://health.hawaii.gov/cdc/disease_listing/rat-lungworm-angiostrongylus/

MESSAGE FROM KALANI

This is a very important alert and call to action in our community. Please read carefully and follow tips on page 2.

Also, please share this information with your friends, family, neighbors and teach your fresh veggie loving kids to adopt these healthy habits. This is a preventable disease, caution and knowledge is powerful protection.

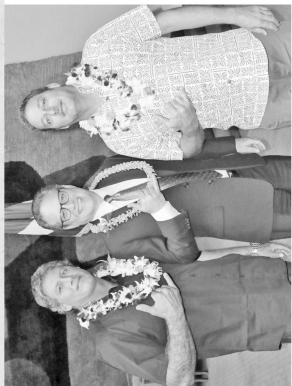
Mahalo!

J. Kalani English

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ATTACHMENT A

VOLCOM HAWAII COMMEMORATED BY HAWAII SENATE



Sen. English with Kaimana Henry (left) and Tai Van Dyke (right), recognized on the Senate floor for philanthropy through Volcom Hawaii's "Hawaii Gives Back Program" and their Sustainability Programs, April 4, 2017.

Sen. English recognized Volcom Hawaii on the floor of the Hawaii State Senate on April 4th, for their philanthropy and deep commitment to our statewide communities. Volcom is an internationally recognized surf, skate, and snowboard brand that was established in 1991. Volcom Hawaii represents the local contingent that promotes a "live like this" motto, with the emphasis on giving back, protecting the aina and oceans and promoting a viable and healthy community. For the past eight years, Volcom Hawaii has invested in the people with their "Hawaii Gives Back Program" and their Sustainability Programs. A portion of sales and proceeds from products and the Volcom Pipe Pro go towards this fund.

At the end of this year's Volcom Pipe Pro, they presented a \$60,000 to the Boys and Girls Club of Hawaii and a \$16,000 check to the Live Like This Memorial Fund. To date, Volcom Hawaii has donated a total of \$450,000 to the Boys and Girls Club of Hawaii, Sunset Beach Elementary, and the Live Like This Memorial Fund. Volcom's Sustainability Program, in collaboration with Sustainable Coastlines Hawaii, is deemed a Deep Blue Certified Event. Sustainability is an official part of their mission statement and both their surf team homes on the North Shore are powered with solar energy. Hawaii is the center of surfing, and Volcom recognizes the deep roots of community and love for the ocean and aina that is an integral part of Hawaii. More importantly, Volcom's contributions to the youth of Hawaii and local communities is inspirational and representative of being good stewards of our aina.

"Hawaii is the center of surfing, and Volcom recognizes the deep roots of community and love for the ocean and aina that is an integral part of Hawaii," said Sen. English. "More importantly, Volcom's contributions to the youth of Hawaii and local communities is inspirational and representative of being good stewards to our aina." Kaimana Henry and Tai Van Dyke are two surfers from Maui who were recognized by the Senate. Kaimana Henry is from Hana, Maui,

where he learned to surf at 7 years old. Today Kaimana is a professional surfer who is sponsored by Volcom, he also takes care of the Volcom houses on the North Shore of Oahu. Most recently, Kaimana won the 2016 Da Hui Backdoor Shootout, held at Pipeline, and he also won the Qualifying Series (QS) international surf event at Rangiroa, French Polynesia in 2016.

Tai Van Dyke was born and raised on Maui and has been one of Volcom's top team riders since the 1990s. Tai helps to manage Volcom Hawaii's Team of surfers—a diverse group of professional surfers that represents Hawaii in international surf competitions. Tai manages the Volcom Houses on the North Shore and is a mainstay in the local surfing community. He is also a talented surf photographer.

SEN. ENGLISH TRAINS THE CHUUK STATE LEGISLATURE IN MICRONESIA



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The United Nations Development Programme (UNDP) invited Sen. English to be a part of a resource team that would assist in providing training to the Chuuk State Legislature and its newly-elected members. During the training, he provided the Chuuk legislators with a comparative analysis on a variety of topics that included: the structure of the Hawaii State Legislature, the role of the Senate and the House of Representatives, the role of legislative committees, the budget cycle and other responsibilities and operations related to legislative duties. The resource team also provided training in promoting inclusiveness and gender equality in law making, oversight, and representation process while encouraging robust debates on current and emerging development priorities.

"In the past, I have participated as a resource person for other UNDP training programs in the Pacific region," said Sen. English. "Our roles as legislators in Hawaii serves as a model for other developing countries in the Pacific."

**SENATOR J. KALANI ENGLISH
HAWAII STATE SENATE 7TH DISTRICT**

HANA, EAST AND UPCOUNTRY MAUI,
MOLOKA'I, LANA'I AND KAHOLAWE



**PALAPALA HO'OMAU CHURCH
HO'OLAULE'A IN KIPAHULU**

Sen. English attended a Ho'olaule'a at Palapala Ho'omau Church and presented a Senate Proclamation to family, friends and supporters of the Church on the celebration of its sequicentennial on April 2. For 150 years, the church has stood along the Southeast coast of Maui. After the church was built in 1867 by Congregational missionaries, members of the community gathered to worship. As residents moved away to work in the plantations or in the tourism industry, the church was abandoned.

In 1964, the church was restored and on the following Thanksgiving Day, worshippers gathered for the first service since the 1940s. In 2012, the Palapala Ho'omau Preservation Society was established to care for the church. The Society's goal is to return Palapala Ho'omau to an active role in the community.

The Senate Proclamation Sen. English presented states in part: The Hawaii State Senate is pleased to recognize institutions in our communities that have withstood the test of time and catalyzed changes in our society. Palapala Ho'omau Church "Church of Enduring Scriptures" is such, and has stood serenely along the Southeast coast of Maui for 150 years. Congregational missionaries from Lahaina built the church in 1867. The little church became a beacon in Kipahulu, Maui where members of the community gathered to worship and share fellowship.

The Senate of the Twenty-Ninth Legislature of the State of Hawaii recognizes Palapala Ho'omau Church for its revival as a place of worship and community gathering and extends its sincerest aloha for its continuity.



Sen. English presents Erin Lindbergh with Senate Proclamation upon the Sequicentennial Celebration, April 2, 2017.

Sen. English presented states in part: The Hawaii State Senate is pleased to recognize institutions in our communities that have withstood the test of time and catalyzed changes in our society. Palapala Ho'omau Church "Church of Enduring Scriptures" is such, and has stood serenely along the Southeast coast of Maui for 150 years. Congregational missionaries from Lahaina built the church in 1867. The little church became a beacon in Kipahulu, Maui where members of the community gathered to worship and share fellowship.

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MESSAGE FROM KALANI

In the midst of the health crisis emerging in our district from the threat of Rat lungworm, I am so very proud of our small yet resilient community. We have rallied - becoming informed, being supportive of each other and proactive. I am seeking additional resources to assist all affected, from our growers, to our educators and healthcare professional. I encourage everyone to share mana'o with your neighbors and continue to thrive in our beautiful island home.

J. Kalani English

ATTACHMENT A

RAT LUNGWORM HEALTH ALERT UPDATE CONTINUED

vegetables, (165) or freeze for 24 - 48 hours.

Adopting these practices, daily will become second nature in a short time and will reduce the risk of interaction and exposure to the parasite.

Be alert to symptoms

Hypersensitivity to skin, headache, pruritus (a burning or prickling sensation that is usually felt in the hands, arms, legs, or feet, but can also occur in other parts of the body), pain that moves from one area of the body to another - neck and shoulder, leg next day back to head. The vague initial symptoms mimic other diseases, like leptospirosis and typhus. These must be diagnosed and treated with antibiotics quickly. If fits or flu like symptoms appear, see your Doctor immediately.

Treatment

Currently a spinal tap is the only method of diagnosis. Large doses of steroids counter effect of inflammation from meningitis. Pain medication are administered to help relieve symptoms.

RESOURCES

College of Tropical Agriculture and Human Resources and UHMC Ag Department
<https://www.ctahr.hawaii.edu/site/>
<http://maoia.hawaii.edu/ctahr/farmfoodsafety/rat-lungworm/>

Maui County Farm Bureau
<http://www.mauicountyfarmbureau.org>
 Hawaii Farmers Union United
<https://hiuhui.org>
 Hana Chapter
<http://www.mauifarmershalakala.com>

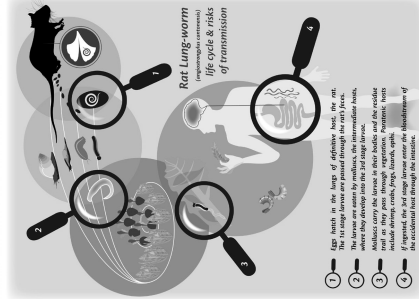
Maui Invasive Species Committee
<http://mauiinvasive.org/2016/06/21/rat-lungworm-disease/>

<https://mauiready.org/ratlungworm>

http://health.hawaii.gov/doc/disease_listing/rat-lungworm-angiostrongyliasis/

<http://pharmacy.uhh.hawaii.edu/rw/education.php>

<http://pharmacy.uhh.hawaii.edu/rw/faq.php>



We have learned that particular ecosystems, just like East Maui, are ideal for the transmission of the parasite. Since it has emerged here, it is imperative that our way of living has to change - being observant, proactive, informed is more critical than ever. The team outlined the fundamental hygienic practices necessary as a preventative. The parasite is not visible so to get an upper hand on controlling the spread of the parasite calls for a war on rat feces - minimizing and eradicating rats, slugs and snails.

Rat's lungs: host the first stage of incubation, the larvae is passed through the rat feces, the slugs that travel over the rat feces ingest and carry the parasite third stage larvae as they raid the veggie garden, banana bunches, papayas, pineapples, damp garages, pet food dishes by night leaving the third stage slime trail behind them. By morning smaller slugs hide in the dark folds of (or some animals) the larvae enter the bloodstream through the intestine and the body's natural defense attacks the larvae. The larvae will eventually die, humans do not pass the larvae on through their feces, however the ensuing battle takes a deleterious toll on the body, often with long term affects, especially devastating in children's developing and vulnerable systems. Crabs, frogs, snails, prawns and possibly ophi may be carriers and if not cooked properly when eaten may introduce the third stage larvae through the intestinal track.

Smart Precautions

All water consumed and used for washing fruits and veggies should be potable standard. Adopt a hyper cleaning habit with fruits, veggie, cooking surfaces, cutting boards, knives, refrigerators, etc. Food brushes and food thermometers are important handy tools.

If on a catchment system, clean tank roof and gutters often. Change water filters regularly, a 15 micron filter is preferred.

Generally slugs are active by night and hide in cool, damp, dark places by day. They can be found along the under plastic and terracotta planters, along the lip of pots, under leaves and rocks, in damp dark garages, shops and laundry rooms, under petfood bowls and in pet food storage containers.

Use gloves or utility tools clearly marked for this purpose. Store tools in a antiseptic solution. - **never handle** slugs, snails, dead rats or feces with bare hands. Dispose of slugs and snails in a jar with tight fitting lid filled with a 15% salt water solution. This kills the slug and prevents pets or rats from eating. Do not leave dead slugs out in the open. They may be dead but the parasite is transmittable for hours.

Commercial slug bait is effective, read labels carefully, some are toxic to pets. There are simple methods to attract and trap/kill slugs. One method demonstrated uses a dark tarp or black plastic garbage bag. Lay flat on the ground - folded 3 times with water sprinkled between layers. Place a rock on top to secure in place overnight. Using gloves and utility tools, unfold the layers and remove the slugs gathered between folds. Place in salt water jar.

Use appropriate traps to kill rats. Do NOT handle carcass without gloves, place in sealed plastic bag, dispose in trash containers with lid firmly closed.

If transporting potted plants, truckloads of dirt or rock, inspect contents thoroughly before distributing on your property. The parasite nematode can survive deep in the soil.

Properly cook prawns, crabs, ophi, frogs,

RAT LUNGWORM HEALTH ALERT UPDATE HAWAII DEPT. OF HEALTH HOSTS INFORMATION TOWN HALL IN HANA



An estimated 250 - 300 people attended the DOH sponsored community meeting in Hana at Helene Hall April 6.

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Robyn and Lela arranged additional meetings scheduled by Maui School Garden Coordinators for Hana School and a RLW Workshop at UHMC on April 7, 2017. A video will soon be made available of Prof. Kay Howe's presentation and distributed to CTAHR, UHMC Ag Department, Maui County Farm Bureau, Hawaii Farmers Union United, Maui Invasive Species Committee, Department of Health, Maui District Health Office.

"I am pleased that our community is quickly responding and taking action to a real threat that could affect all of our lives," adds Sen. English. "This is not the first time that we come together to combat a regional health problem while in its initial stages and prevent it from becoming an actual hazard in the State and affecting residents and visitors as well."



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Q - How long can the parasite survive outside the host?
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Q - Which slugs are the preferred carriers?
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Q - "Good turnout and questions," said Dr. Pang, "it reflects the community's attitude to resolving this complex issue and they continue to work on this long after the meeting has ended".

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Q - When someone survives the Meningitis provoked by ingesting the parasite, do they develop any immunities against a second infection if ingested again?
 A - No, though further studies are needed.

Q - Are dogs and cat at risk, livestock?
 A - Yes, in puppies it is deadly. (see Precautions for prevention)

Q - Does UV light or Chlorine kill the parasite in catchment water tanks?
 A - No. Boiling water in question is the safest practice.

Q - Is the parasite communicable between humans?
 A - Only through blood transfusion.

Q - Are mongoose, like rats, a preferable host for the parasite.
 A - Unknown, take same precautions around mongoose feces.

Q - Does vinegar, food grade hydrogen peroxide, soap or UV light kill the parasite during the washing?
 A - No. Parasite thrives in acidic environment so vinegar is not advisable. Hydrogen peroxide and UV light has not proven effective.

Q - Are there alternative parasitic drugs or purge methods tested that can halt the parasite if ingestion is suspected.
 A - Only if treatment kills the parasite before it reaches the brain. Treatment should be done immediately or within 3 weeks.

Q - How soon after ingesting slug do symptoms appear?
 A - 1-3 weeks.

continued on pg. 4

ATTACHMENT A

HAWAII AND TAIWAN SIGNS RECIPROCAL DRIVERS LICENSE AGREEMENT

State of Hawaii Department of Transportation Director Ford Fuchigami and Taipei Economic and Cultural Office Director-General Chow Min-Gan signed a reciprocal driver's license agreement on April 5 in the Governor's office. Under the agreement, Republic of China (Taiwan) nationals residing in Hawaii with a valid Republic of China driver's license are exempt from taking a road test, as well as a written exam. They can now obtain a class 3 or standard license upon completing of a regular physical exam.

Similarly, Hawaii State residents with a valid Hawaii driver's license residing in Taiwan for a minimum of one year can acquire a license within 12 months of entering the country without taking a road or written exam. Taiwan has signed similar reciprocal driver's license agreements with states across the U.S. that include Alabama, Arizona, Colorado, Nevada, Pennsylvania, Tennessee, Texas and Washington.

"This agreement with Taiwan marks an important milestone in the development of bilateral relations with foreign governments," said Sen. English. "It will also bring greater convenience to residents of both Hawaii and Taiwan."



\$144,910 RELEASED FOR CIP AT KUALAPU'U ELEMENTARY PUBLIC CHARTER SCHOOL

The Department of Education (DOE) recently announced the release of Capital Improvements Projects (CIP) funds to Kualapu'u Elementary Public Charter School. A total appropriation of \$144,910 will go towards walkway and ramp projects as part of much needed improvements throughout the campus. The project was awarded to Island Construction & Demolition, LLC. "I worked with my colleagues to secure the funds appropriated in the budget for Kualapu'u Public Charter School," said Sen. English. "These improvement projects are important in providing a safe environment for our students."

10TH ANNUAL MAUI COUNTY AGRICULTURE FESTIVAL



The 10th Annual Maui County Agriculture Festival was held on April 1 on the grounds of the Maui Tropical Plantation in Waikapu. Hosted by the Maui County Farm Bureau (MCFB) in partnership with the Office of Economic Development, the event provided an opportunity to raise awareness about Maui agriculture while invigorating the island industry. The event featured a variety of local produce, live entertainment, food trucks, an animal petting area, coffee, crafts and an educational tent.

"The Maui County Agriculture Festival is a wonderful event that provides the general public with the opportunity to engage with local farmers," said Sen. English. "It is a great educational opportunity to learn more about Maui's agriculture and its impact on our day-to-day lives."

Innovation is a key component to agriculture in the future and the STEM program grows minds to innovate. 4-H and Future Farmers of America have been key to providing agricultural experience to our youth. Various agricultural programs received awards and scholarships from the Maui County Farm Bureau Growing Future Farmers program. Funding was also provided to Kula Elementary School to purchase supplies to expand their farm program. Other beneficiaries were: Lahainaluna Future Farmers of America; Maui 4-H Live Stock Club; Moloka'i 4-H Livestock Club; Lanai 4-H Livestock Club; Moloka'i Middle School VEX IQ Team 434 - STEM Robotics; Moloka'i High School STEM Robotics; Kualapu'u Elementary School STEM Robotics; Pukalani Elementary School Stem Imaginheers and Maui High School Band.

The Festival is one of many activities carried out by the Farm Bureau to grow Maui's agriculture. "Growing Future Farmers" program provides mini-grants to farmers and ranchers enabling them to innovate and implement new practices in their operations. The Farm Bureau also works with agencies to develop agriculture friendly programs for the State Enterprise Zone (EZ) Program. This program was established by the Hawaii State Legislature to help stimulate certain types of business activity and increase employment in targeted areas of the State.

"Policies that support our local farmers, encouraging good agricultural practices and increasing our local food production is one of the Senate's legislative priorities," said Sen. English. "I am pleased to see the Maui Farm Bureau engaged in so many productive activities."

J. KALANI ENGLISH Senate Majority Leader

COMMITTEES
Vice Chair, Senate Committee on International Affairs and the Arts

Member, Senate Committee on Hawaiian Affairs

Member, Senate Committee on Transportation and Energy

Member, Senate Committee on Ways & Means



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ART NIGHT AT THE CAPITOL



On April 7, the State Capitol opened its doors to the public for the 9th Annual Art At the Capitol event. This annual event began in 2008 as an initiative to welcome the public to view the variety of art that is displayed throughout the State Capitol. Through a partnership with the State Foundation on Culture and the Arts, more than 900 pieces of artwork are on display at the Capitol in legislative offices and open areas.

The theme of this year's Art Night at the Capitol was "Oniipa'a: The Spirit of Lili'uokalani." The event focused on Marianna Pineda's Queen Lili'uokalani Statue which is located on Capitol Mall. In 1975, House Bill 1117 was introduced to create the statue of the Queen. The purpose of the statue is to "emphasize and symbolize the character and spirit of Hawaii, its past, its present and its future."

This year the event featured two competitions, the People's Choice Award and the Capitol Legislators Award. Legislators participated in the event where they were tasked with creating a piece of art to be displayed at the event. The public was then tasked with voting for their favorite piece of art created by the legislators in the two categories. The winners were: Capitol Legislators Award: Sen. Laura Thielen and People's Choice Award: Sen. Gilbert S.C. Keith-Agarun.

"Art Night is a fun way for us as legislators to open our offices to the public," said Sen. English. "There are many exceptional pieces of art placed throughout the Capitol and these pieces should be for all to see."



The Public viewing art and enjoying Art Night at the State Capitol. April 7, 2017.



Sen. English awards recipients on Visitation Day & Awards Ceremony of The 60th Hawaii State Science & Engineering Fair (HSEEF) held at the Hawaii Convention Center, April 10, 12, 2017.

ATTACHMENT A

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Prof. Howe stressed that while much is being learned through the tragic first-hand cases locally and the subsequent research at UH Hilo, federal funding and support is essential for broader studies of this health crisis and eradication efforts. Help from USDA is needed for pest control. Recent data revealed that of 557 rats collected and tested, all were infected. MISC will require additional support for surveying, specimen and data collection.

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Dr. Pang fielded questions from the audience. Here are some of the questions raised and answered by the team and with information contributed by health professionals, farmers and two survivors:

Q - When someone survives the meningitis provoked by ingesting the parasite, do they develop any immunities against a second infection if ingested again?

A - No, though further studies are needed.

Q - Are dogs and cat at risk, livestock?

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SENATOR J. KALANI ENGLISH HAWAII STATE SENATE 7TH DISTRICT HANA, EAST AND UPCOUNTRY MAUI, MOLOKA'I, LANA'I AND KAHŌ'OLAWÉ

Maui Senators (Keni Aguiar, English and Baker) and 500 rat traps, April 21, 2017.

VOL.17 Issue 8
April 29, 2017

RAT LUNGWORM DISEASE COMMUNITY ACTION ALERT UPDATE

Rat lungworm disease has been found in our district. Therefore, we must take immediate action to control and eliminate the spread of the disease.

In March, the State Health Department confirmed a case of rat lungworm disease on Maui and is investigating four more cases. Rat lungworm is caused by a round worm parasite. The adult parasite is only found in rats. The infected rats can pass the larvae in their droppings. Snails and slugs become infected by eating the larvae. People can get the disease by eating raw produce with tiny snails or slugs that have eaten the lungworms. We might also get the disease from eating under cooked freshwater prawns/frogs that have become infected from water contacting infected slugs and snails.

On April 26, in collaboration with Jonathan Starr Foundation, Senator English's staff, Senate and House Colleagues and other community leaders, gathered over 500 rat traps that will be distributed at the East Maui Taro Festival on Saturday, April 29th. "A big mahalo to Jonathan Starr and his foundation for collaborating with us on combating rat lungworm disease on Maui," said Sen. English. "Our Hana community is putting together a task force to help neighbors with tools and education as well."

Our communities need to take immediate action through prevention and control of the disease. First, the community must control the rodent population by using appropriate traps. Secondly, **DO NOT eat raw or under cooked snails or slugs which may be in vegetables or on fruits.** Thoroughly wash and inspect fresh produce and vegetables, especially if eaten raw. Finally, eliminate snails and slugs near houses and in the garden. Follow tips and read information provided herein. If you have suspicious symptoms, see your physician.

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- ▶ Rat Lungworm Health Alert and Action pg. 1
- ▶ DOH Brings Team to Hana Town Hall pg. 2
- ▶ UH Mānoa Extension CTHAR Faculty Visit pg. 2
- ▶ What We Have Learned pg. 3
- ▶ Battle the Sources of Parasite Transmission pg. 4
- ▶ Resource Links for Further Reading pg. 4
- ▶ Safety Tips and Tools pg. 4

MESSAGE FROM KALANI

I am pleased with the actions our community has taken since our special issue on rat lungworm disease. Preventative measures will continue to combat the disease, while education will be the goal of our office. I ask the community to stay vigilant and alert to the dangers that threaten our health. We will coordinate private donations of rat traps and other items for a rapid response, as the State ramps up its campaign through the Department of Health and other agencies.

J. Kalani English

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ATTACHMENT A

CAUTION AND PREVENTION OF RAT LUNGWORM DISEASE



TAKE ACTION NOW

Prevention and control of the disease is important to avoid the disease from spreading.

- Control the rodent population by using appropriate traps.
- Avoid eating raw or undercooked snails or slugs, which may be in vegetables or on fruits.
- Thoroughly wash and inspect fresh produce and vegetables, especially if eaten raw.
- Eliminate snails and slugs near houses and in the garden. Do not handle slugs/snails! With designated utility chopsticks or tongs.
- Dispose of snails and slugs in a solution of 15% salt water in a container with tight fitting lid.



RESOURCES

- RLW in East Maui by Chad Meyer MD <https://adobe.ly/2puvFsp>
- College of Tropical Agriculture and Human Resources and UHMC Ag Department <https://www.ctahr.hawaii.edu/site/farmfoodsafety/rat-lungworm/>
- Maui County Farm Bureau <http://www.mauicountyfarmbureau.org>
- Hawaii Farmers Union United <http://hfuhi.org>
- Hana Chapter <http://hfuhi.org/chapters/maui-hana-chapter/>
- Haleakala Chapter <http://www.mauifarmersbureau.com>
- Maui Invasive Species Committee <http://mauiinvasive.org/2016/06/21/rat-lungworm-disease/>
- <http://mauiready.org/ratlungworm>
- http://health.hawaii.gov/docd/disease_listing/rat-lungworm-anglostrogyliasis/
- <http://pharmacy.uhhi.hawaii.edu/rhw/education.php>

J. KALANI ENGLISH
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Vol.17 Issue 8 pg.4 April 29, 2017

RAT LUNGWORM HEALTH ALERT UPDATE CONTINUED

We have learned that particular ecosystems, just like East Maui, are ideal for the transmission of the parasite. Since it has emerged here, it is imperative that our way of living has to change - being observant, proactive, informed is more critical than ever. The team outlined the fundamental hygienic practices necessary as a preventative. The parasite is not visible so to get an upper hand on controlling the spread of the parasite calls for a war on rat feces - minimizing and eradicating rats, slugs and snails.

Rats' lungs host the first stage of incubation, the larvae is passed through the rat feces, the slugs that travel over the parasite third stage larvae as they raid the veggie garden, banana bunches, papayas, pineapples, damp garages, pet food dishes by night leaving the third stage slime trail behind them. By morning they all flee to dark places, some folds of vegetation by day. If ingested by human (or some animals) the larvae enter the bloodstream through the intestines and the body's natural defense attacks the larvae. The larvae will eventually die, humans do not pass the larvae on through their feces, however the ensuing battle takes a deleterious toll on the body, often with long term effects, especially devastating in children's developing and vulnerable systems. Crabs, frogs, snails, and possibly ophi may be carriers and if not cooked properly when eaten may introduce the third stage larvae through the intestinal track.

Smart Precautions

All water consumed and used for washing fruits and veggies should be potable standard. Adopt a hyper cleaning habit with fruits, veggies, cooking surfaces, cutting boards, knives, refrigerator, etc. Food brushes and food thermometers are important handy tools. If on a catchment system, clean tank roof and gutters often. Change water filters regularly.

are simple methods to attract and trap/kill slugs. One method demonstrated uses a dark tarp or black plastic garbage bag. Lay flat on the ground - folded 3 times with water sprinkled between layers. Place a rock on top to secure in place overnight. Using gloves and utility tongs, unfold the layers and remove the slugs gathered between folds. Place in salt water jar.

Use appropriate traps to kill rats. Do NOT handle carcasses without gloves. Place in sealed plastic bag, dispose in trash containers with lid firmly closed.

If transporting potted plants, truckloads of dirt or rock, inspect contents thoroughly before distributing on your property. The parasitic nematode can survive deep in the soil.

Properly cook prawns, crabs, ophi, frogs, vegetables, (105° or freeze for 24 - 48 hours).

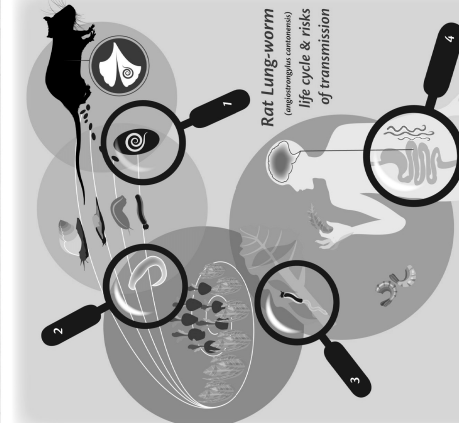
Adopting these practices daily will become second nature in a short time and will reduce the risk of interaction and exposure to the parasite.

Be alert to symptoms

Hypersensitivity to skin, headache, paresthesia (a burning or prickling sensation that is usually felt in the hands, arms, legs, or feet, but can also occur in other parts of the body), pain that moves from one area of the body to another - neck and shoulder, leg next day, back to head. The vague initial symptoms mimic other diseases, like leptospirosis and typhus, these must be diagnosed and treated with antibiotics quickly. If these or flu-like symptoms appear, see your doctor immediately.

Treatment

Currently, a spinal tap is the only method of diagnosis. Large doses of steroids counter affect inflammation from meningitis. Pain medication are administered to help relieve symptoms. The parasites cannot age or reproduce in humans and will eventually die.



- 1 Eggs hatch in the lungs of definitive host, the rat. The 1st stage larvae are passed through the rat's feces.
- 2 The larvae are eaten by molluscs, the intermediate hosts, where they develop into the 3rd stage larvae.
- 3 Molluscs carry the larvae in their bodies and the residue they leave behind. Parasitic hosts include slugs, snails, frogs, lizards, and ophi.
- 4 If ingested, the 3rd stage larvae enter the bloodstream of the accidental host through the intestine.

a 15 micron filter is preferred.

Generally slugs are active by night and hide in cool, damp, dark places by day. They can be found along the under plastic and terracotta planters, along the lip of pots, under leaves and rocks, in damp dark garages, shops and laundry rooms, under petfood bowls and in pet food storage containers.

Use gloves or utility tools clearly marked for this purpose. Stone tools in a antiseptic solution - never handle slugs, snails, dead rats or feces with bare hands. Dispose of slugs and snails in a jar with tight fitting lid filled with 15% salt water solution. This kills the slug and prevents pets or rats from eating. Do not leave dead slugs out in the open. They may be dead but the parasite is transmittable for hours.

Commercial slug bait is effective, read labels carefully, some are toxic to pets. There

ATTACHMENT A

