

FIFTY-SECOND DAY

Wednesday, April 21, 1993

The Senate of the Seventeenth Legislature of the State of Hawaii, Regular Session of 1993, convened at 11:38 o'clock a.m. with the President in the Chair.

The Divine Blessing was invoked by the Reverend Robert Fraser, First Unitarian Church, after which the Roll was called showing all Senators present.

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

The following introductions were made to the members of the Senate:

Senator Graulty introduced the Senate Ways and Means Committee staff, as follows:

"Mr. President, as you know, we started the budget conference at 4:00 o'clock yesterday afternoon. Everyone knows what a critical time that is during our session. But there's a group of individuals who, despite the criticalness of the time, took the time to think of others, i.e., the people who go hungry in our state, and it's my real pleasure to introduce to all the Senators this morning, about 15 members of the Senate Ways and Means staff, who yesterday afternoon trooped to my office with 25 bags of rice and other assorted canned goods in support of our Senate campaign for the 1993 Food Bank Drive. I'm really proud of them and I'm thankful to them for their efforts and their generosity and I'd like the Senators to acknowledge their contribution to the Food Bank Drive.

"Mr. President, 1300 pounds of food so far have been contributed on the Senate side. This now puts us over the 1500-pound mark. So, thank you very much to the Senate Ways and Means staff and thank you Senator Kobayashi."

The staff of the Ways and Means Committee, in the audience, raised their hands to be recognized.

Senator B. Kobayashi, on behalf of Senator McCartney, recognized members of the Hawaii State PTSA: Ms. Linda Hodge, president, and Ms. Cindy Yocom, seated in the audience. Senator Kobayashi said, "This afternoon, the Capitol grounds will be the scene of a rally supporting education. The members of the Hawaii State PTSA urge the members of the Senate to attend. Thank you."

Senator Hagino then introduced Vern Call and Rose Albert and members of the Work Hawaii Hoala program, as follows:

"Mr. President, with us this morning are members of the Work Hawaii Hoala program. The Hoala program is a federally-funded program for low-income single parent families. It offers employment training for youth and adults. The leaders are Vern Call and Rose Albert." (The leaders and members, seated in the audience, stood to be recognized.)

Senator McCartney, in recognition of "Hawaii Week of the Young Child" and "Worth Wage Day" presented Ms. Leanne Errett of Rainbow School, Ms. Stephanie Osurman of Hokulea Schools, Ms. Jayne Miyasato of Seagull Schools, and Mr. Chuck Larson, as follows:

"Mr. President, it's my privilege to introduce today some people who are here to represent Hawaii's child care providers. Last week was 'Hawaii Week for the Young Child' and today is 'Worthy Wage Day.' We all know

how important our children are in our future and how they are the foundation of our future and early childhood education is very, very important in the success of children. In fact, research indicates that for every dollar invested in comprehensive early childhood education, we will save approximately \$7.00 later on in remediation, social services and institutionalization.

"With that in mind, Mr. President, we all know how expensive child care is and the actual cost of providing child care in this state far exceeds the wages paid to child care workers. And what that means is actually the people subsidizing the system of our child care providers are more specifically the baby-sitters, like the one I have in Nuuanu, or the teachers in the system. Today, they would like to present us with a check and I'd like to tell the Ways and Means chairman that we finally found some money. They would like to present us with a check for \$146,347,120.00 which is the difference between the cost of child care and the amount paid out to workers, and that's the subsidy that they're giving us. Mr. President, that's the check we can use to balance the budget in budget conference. Mr. President, Mr. Chuck Larson would like to present you with that check. (President Aki accepted the check with thanks.)

"The check will help some of the programs Senator Kobayashi is trying to push through for women and children. We'll put that first on the agenda.

"Mr. President, it is my honor and privilege to introduce Ms. Leanne Errett of Rainbow School, Ms. Stephanie Osurman of Hokulea Schools, Ms. Jayne Miyasato of Seagull Schools, and Mr. Chuck Larson. Thank you for being here today."

The group rose to be recognized. Senator Kanno presented the Senate certificate of recognition and Senators Iwase, Ikeda, McCartney and Kanno presented the leis.

At 11:48 o'clock a.m., the Senate stood in recess subject to the call of the Chair.

The Senate reconvened at 11:59 o'clock a.m.

MESSAGES FROM THE GOVERNOR

The following messages from the Governor (Gov. Msg. Nos. 324 to 355) were read by the Clerk and were disposed of as follows:

Gov. Msg. No. 324, dated March 11, 1993, transmitting the 1992 Annual Report of the Hawaii Housing Authority, was placed on file.

Gov. Msg. No. 325, dated April 8, 1993, transmitting the 1992 Annual Report of the Department of Public Safety, was placed on file.

Gov. Msg. No. 326, submitting for consideration and confirmation to the Board of Public Accountancy, the nominations of ARTHUR C. TOKIN, STANLEY K. OKINAKA and NANCY HONG, terms to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 327, submitting for consideration and confirmation to the Board of Directors, Aloha Tower Development Corporation, the nomination of NICK W. TEVES, JR., term to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 328, submitting for consideration and confirmation to the Civil Defense Advisory Council, the nomination of JUDITH A. YOUNG, term to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 329, submitting for consideration and confirmation to the Correctional Industries Advisory Committee, the nominations of BILL WILLIAMS, TOBY BAILIN, WILLIAM BUZZ HONG, BERTHA S.J. NAHOPII and MARC V. OLEY, terms to expire June 30, 1995, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 330, submitting for consideration and confirmation to the Criminal Injuries Compensation Commission, the nomination of ALLAN M. YOKOYAMA, term to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 331, submitting for consideration and confirmation to the State Foundation on Culture and the Arts, the nominations of GLADYS AINO A BRANDT, ANDY M. ICHIKI and ELDEAN C. SCOTT, terms to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 332, submitting for consideration and confirmation to the Board of Dental Examiners, the nominations of JANEEN-ANN A. OLDS, MARCY MIEKO KAWASAKI HAINES, D.D.S., JENNIFER RUSH PIRIE and STEVEN SHIGEO KANEMOTO, D.D.S., terms to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 333, submitting for consideration and confirmation to the Board of Professional Engineers, Architects, Surveyors, and Landscape Architects, the nominations of: KENDALL NAM HOY HEE, term to expire June 30, 1995; and GARY TAKASHI OURA, RICHARD Y. MITSUMORI and RUSSELL Y.J. CHUNG, terms to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 334, submitting for consideration and confirmation to the Hawaii Aquaculture Advisory Council, the nominations of: MARK BROOKS, term to expire June 30, 1996; and DENNIS K. GOTO, term to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 335, submitting for consideration and confirmation to the Hawaii Community Development Authority, the nominations of: ALVIN K.T. GOO, term to expire June 30, 1996; and MICHAEL KEN KAWAHARADA, term to expire, June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 336, submitting for consideration and confirmation to the Board of Directors, Hawaii Strategic Development Corporation, the nominations of: PETER H. SIMONS, term to expire June 30, 1994; and CONSTANCE H. LAU, RANDOLPH G. MOORE and AUDREY E.J. NG, terms to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 337, submitting for consideration and confirmation to the Hawaii Tourism Marketing Council, the nominations of JULIE HUGO, SAM SHENKUS, RANDELL T. YAMANE and LESTER W.B. MOORE, terms to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 338, submitting for consideration and confirmation to the Waianae Coast Subarea Health Planning Council, the nomination of TYLETTE L. HUN,

term to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 339, submitting for consideration and confirmation to the Windward Oahu Subarea Health Planning Council, the nomination of RONALD T. HAYASHI, term to expire June 30, 1995, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 340, submitting for consideration and confirmation to the Hawaii County Subarea Health Planning Council, the nominations of MARNI HERKES and NOELANI TEVES-WHITTINGTON, terms to expire June 30, 1995, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 341, submitting for consideration and confirmation to the Board of Hearing Aid Dealers and Fitters, the nominations of: JACQUELINE KOMO MURAI and MARY NORMA ALLISON, terms to expire June 30, 1995; and TRUDY N. HAZENFIELD, M.D., F.A.C.S., term to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 342, submitting for consideration and confirmation to the State Highway Safety Council, the nominations of DAVID KEKOA AKANA, RANDALL A. MEDEIROS, HARDY HUTCHINSON and ROBERT K. MOLE, terms to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 343, submitting for consideration and confirmation to the Land Use Commission, the nominations of LLOYD F. KAWAKAMI, EUSEBIO LAPENIA, JR. and TRUDY K. SENDA, terms to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 344, submitting for consideration and confirmation to the Hawaii Library Advisory Commission, the nomination of ELIZABETH P. BRYSON, term to expire June 30, 1995, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 345, submitting for consideration and confirmation to the Maui County Library Advisory Commission, the nomination of DEE DUDLEY, term to expire June 30, 1994, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 346, submitting for consideration and confirmation to the Martin Luther King, Jr. Commission the nominations of KIP ALLEN KRIEGER, JOHNNIE MAE SANDERS and ALICE K. UYEHARA, terms to expire June 30, 1995, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 347, submitting for consideration and confirmation to the State Council on Mental Health and Substance Abuse, the nominations of: RANDOLPH C. HACK and KATHLEEN G. RHODES, terms to expire June 30, 1995; GWENSON YUEN, term to expire June 30, 1996; and M. HO'OIPO DECAMBRA, ROBERT E. CAMPBELL, LAURA KEALAIKI, ROBERT K. WEAD and JUDY S. BEATES, terms to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 348, submitting for consideration and confirmation to the Molokai Irrigation System Water Users Advisory Board, the nomination of: LYN S. BONK and GREGORY G. HELM, SR., terms to expire June 30, 1995; BARON H. OKIMOTO SR. and LARRY GLENN JEFTS, terms to expire June 30, 1996; and WILMA NOELANI NAEOLE JOY and DUANE R.

CRANNEY, terms to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 349, submitting for consideration and confirmation to the Board of Private Detectives and Guards, the nomination of VICTOR V. VIERRA, term to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 350, submitting for consideration and confirmation to the Radiologic Technology Board, the nomination of NICHOLAS JOHN GLADDIS, term to expire June 30, 1994, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 351, submitting for consideration and confirmation to the Rental Housing Trust Fund Commission, the nominations of: CRAIG K. HIRAI, term to expire June 30, 1995; EMIKO IWASHITA KUDO and RAMONA K. MULLAHEY, terms to expire June 30, 1996; and MARVIN B. AWAYA and EARL S. WAKAMURA, terms to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 352, submitting for consideration and confirmation to the Board of Directors, Research Corporation, University of Hawaii, the nomination of ALLEN Y. KAJIOKA, term to expire June 30, 1997, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 353, submitting for consideration and confirmation to the Tourism Training Council, the nominations of CHUCK Y. GEE and PHILIP E. SAMMER, terms to expire June 30, 1997, was referred to the Committee on Executive Appointment.

Gov. Msg. No. 354, submitting for consideration and confirmation to the Commission on Water Resource Management, the nomination of J. DOUGLAS ING, term to expire June 30, 1995, was referred to the Committee on Executive Appointments.

Gov. Msg. No. 355, submitting for consideration and confirmation to the Commission on the Status of Women, the nominations of: CHARLOTTE A. CARTER-YAMAUCHI and ALLICYN CHIYEKO HIKIDA, terms to expire June 30, 1994; and ALICE E. DEAN-DANIEL, PAULA HARRIS-WHITE, SUSAN HAYES-SCHWARTZ, M.D., FAYE KENNEDY and PATRICIA LEE HIGASHI, terms to expire June 30, 1997, was referred to the Committee on Executive Appointments.

HOUSE COMMUNICATIONS

The following communications from the House (Hse. Com. Nos. 639 to 653) were read by the Clerk and were placed on file:

Hse. Com. No. 639, informing the Senate that the Speaker on April 20, 1993, appointed conferees on the part of the House for the consideration of amendments proposed by the House to the following Senate bills:

S.B. No. 2, S.D. 1 (H.D. 1):

Representatives Stegmaier, Kawakami, co-chairmen, Kanoho, Tam, Marumoto.

S.B. No. 3, S.D. 1 (H.D. 2):

Representatives Stegmaier, Taniguchi, co-chairmen, Ige, D., Ward.

S.B. No. 5, S.D. 1 (H.D. 2):

Representatives Stegmaier, Oshiro, co-chairmen, Morihara, Nakasone, Marumoto.

S.B. No. 14, S.D. 1 (H.D. 1):

Representatives Tom, chairman, Peters, Takamine, Thielen.

S.B. No. 122, S.D. 1 (H.D. 1):

Representatives Bunda, chairman, Hiraki, Ishii-Morikami, Thielen.

S.B. No. 124, S.D. 1 (H.D. 1):

Representatives Bunda, Tom, co-chairmen, Oshiro, Thielen.

S.B. No. 125, S.D. 1 (H.D. 1):

Representatives Bunda, chairman, Amaral, Ishii-Morikami, Peters, Thielen.

S.B. No. 126, S.D. 1 (H.D. 1):

Representatives Bunda, chairman, Hirono, Ishii-Morikami, Thielen.

S.B. No. 127, S.D. 1 (H.D. 1):

Representatives Bunda, chairman, Bainum, Ishii-Morikami, Thielen.

S.B. No. 130 (H.D. 1):

Representatives Bunda, chairman, Bainum, Ishii-Morikami, Thielen.

S.B. No. 154, S.D. 2 (H.D. 2):

Representatives Tom, Say, co-chairmen, Menor, Oshiro, Ward.

S.B. No. 189, S.D. 1 (H.D. 1):

Representatives Yonamine, Kanoho, co-chairmen, Suzuki, Ward.

S.B. No. 191, S.D. 1 (H.D. 1):

Representatives Bunda, chairman, Herkes, Ishii-Morikami, Thielen.

S.B. No. 192, S.D. 1 (H.D. 1):

Representatives Ishii-Morikami, Takamine, co-chairmen, Amaral, Thielen.

S.B. No. 195, S.D. 1 (H.D. 1):

Representatives Ishii-Morikami, Takamine, co-chairmen, Amaral, Thielen.

S.B. No. 208, S.D. 2 (H.D. 1):

Representatives Tom, Kanoho, co-chairmen, Menor, Pepper, Ward.

S.B. No. 235, S.D. 1 (H.D. 1):

Representatives Tom, Bunda, co-chairmen, Bainum, Peters, O'Kieffe.

S.B. No. 250 (H.D. 1):

Representatives Lee, Say, co-chairmen, Chang, Hagino, Ward.

S.B. No. 261 (H.D. 1):

Representatives Say, chairman, Alcon, Chang, Kanoho, Kawakami, Morihara, Nakasone, Nekoba, Pepper, Santiago, Suzuki, Tajiri, Tam, Marumoto, Ward.

S.B. No. 262, S.D. 1 (H.D. 1):

Representatives Say, chairman, Alcon, Chang, Kanoho, Morihara, Nakasone, Nekoba, Pepper, Kawakami, Santiago, Suzuki, Tajiri, Tam, Marumoto, Ward.

S.B. No. 264 (H.D. 1):

Representatives Say, chairman, Alcon, Chang, Kanoho, Kawakami, Morihara, Nakasone, Nekoba, Pepper, Santiago, Suzuki, Tajiri, Tam, Marumoto, Ward.

S.B. No. 266, S.D. 1 (H.D. 2):

Representatives Lee, Say, co-chairmen, Shon, O'Kieffe.

S.B. No. 301, S.D. 1 (H.D. 1):

Representatives Ige, M., Nekoba, Say, co-chairmen, Marumoto.

S.B. No. 324, S.D. 1 (H.D. 1):

Representatives Yonamine, Say, co-chairmen, Nakasone, Suzuki, Marumoto.

S.B. No. 336, S.D. 2 (H.D. 2):

Representatives Ige, D., Say, co-chairmen, Alcon, Takumi, O'Kieffe.

S.B. No. 363, S.D. 1 (H.D. 2):

Representatives Menor, Kawakami, co-chairmen, Marumoto.

S.B. No. 413 (H.D. 1):

Representatives Tom, chairman, Cachola, Peters, Thielen.

S.B. No. 417, S.D. 1 (H.D. 2):

Representatives Ige, D., Chang, co-chairmen, Isbell, Tajiri, O'Kieffe.

S.B. No. 448, S.D. 1 (H.D. 2):

Representatives Menor, Kawakami, co-chairmen, Marumoto.

S.B. No. 467, S.D. 2 (H.D. 2):

Representatives Ige, D., Say, co-chairmen, Chumbley, Kawakami, O'Kieffe.

S.B. No. 492 (H.D. 1):

Representatives Tom, chairman, Cachola, Peters, Thielen.

S.B. No. 495, S.D. 1 (H.D. 1):

Representatives Tom, chairman, Oshiro, Takamine, O'Kieffe.

S.B. No. 503 (H.D. 2):

Representatives Duldulao, Tajiri, co-chairmen, Pepper, Ward.

S.B. No. 525, S.D. 1 (H.D. 1):

Representatives Tom, chairman, Menor, Thielen.

S.B. No. 530, S.D. 2 (H.D. 2):

Representatives Oshiro, Kanoho, co-chairmen, Nakasone, Marumoto.

S.B. No. 535, S.D. 1 (H.D. 1):

Representatives Oshiro, Kanoho, co-chairmen, Shon, Marumoto.

S.B. No. 536 (H.D. 1):

Representatives Oshiro, Kanoho, co-chairmen, Nakasone, Marumoto.

S.B. No. 539, S.D. 2 (H.D. 2):

Representatives Chun, Kawakami, co-chairmen, Arakaki, Santiago, Marumoto.

S.B. No. 552, S.D. 1 (H.D. 1):

Representatives Chun, Tom, Chang, co-chairmen, Ward.

S.B. No. 555, S.D. 1 (H.D. 1):

Representatives Tom, chairman, Amaral, Menor, Thielen.

S.B. No. 603, S.D. 2 (H.D. 2):

Representatives Bainum, Say, co-chairmen, Nekoba, Ward.

S.B. No. 638, S.D. 2 (H.D. 1):

Representatives Ige, M., Bunda, co-chairmen, Ishii-Morikami, Tam, Thielen.

S.B. No. 652, S.D. 2 (H.D. 2):

Representatives Ige, M., Chang, co-chairmen, Chumbley, Marumoto.

S.B. No. 728, S.D. 1 (H.D. 2):

Representatives Bainum, Tom, co-chairmen, Oshiro, Takamine, O'Kieffe.

S.B. No. 732, S.D. 1 (H.D. 1):

Representatives Bainum, Tajiri, co-chairmen, Hiraki, Tam, Marumoto.

S.B. No. 741, S.D. 1 (H.D. 1):

Representatives Tom, chairman, Cachola, Takamine, Thielen.

S.B. No. 789, S.D. 1 (H.D. 2):

Representatives Isbell, Kawakami, co-chairmen, Santiago, O'Kieffe.

S.B. No. 799, S.D. 2 (H.D. 2):

Representatives Duldulao, Bunda, Bainum, co-chairmen, O'Kieffe.

S.B. No. 812, S.D. 1 (H.D. 1):

Representatives Tom, chairman, Hirono, Menor, Thielen.

S.B. No. 818, S.D. 1 (H.D. 1):

Representatives Bunda, Say, co-chairmen, Hirono, Ishii-Morikami, Thielen.

S.B. No. 819, S.D. 1 (H.D. 1):

Representatives Ishii-Morikami, chairman, Herkes, Oshiro, Thielen.

S.B. No. 866, S.D. 2 (H.D. 1):

Representatives Oshiro, Kawakami, co-chairmen, Nakasone, Suzuki, Ward.

S.B. No. 871, S.D. 1 (H.D. 2):

Representatives Cachola, Say, co-chairmen, Chang, Chumbley, Kawakami, Marumoto.

S.B. No. 886, S.D. 2 (H.D. 1):

Representatives Menor, Tom, co-chairmen, Chun, Herkes, Thielen.

S.B. No. 920, S.D. 2 (H.D. 1):

Representatives Yonamine, Taniguchi, Say, co-chairmen, Ward.

S.B. No. 930, S.D. 1 (H.D. 1):

Representatives Chun, Say, co-chairmen, Santiago, O'Kieffe.

S.B. No. 937, S.D. 1 (H.D. 1):

Representatives Tom, Bunda, co-chairmen, Amaral, Menor, Thielen.

S.B. No. 952, S.D. 2 (H.D. 2):

Representatives Ige, M., Say, co-chairmen, Chumbley, Morihara, Marumoto.

S.B. No. 993, S.D. 1 (H.D. 2):

Representatives Ige, M., Taniguchi, Bunda, co-chairmen, Ward.

S.B. No. 1027, S.D. 2 (H.D. 2):

Representatives Okamura, Say, co-chairmen, Apo, Kawakami, O'Kieffe.

S.B. No. 1028, S.D. 2 (H.D. 2):

Representatives Okamura, Say, co-chairmen, Beirne, Kawakami, O'Kieffe.

S.B. No. 1063, S.D. 2 (H.D. 1):

Representatives Say, chairman, Chang, Tajiri, Marumoto.

S.B. No. 1126, S.D. 2 (H.D. 1):

Representatives Say, chairman, Kawakami, Nakasone, Tajiri, Marumoto.

S.B. No. 1137, S.D. 1 (H.D. 2):

Representatives Lee, Okamura, Say, co-chairmen, Marumoto.

S.B. No. 1143, S.D. 2 (H.D. 1):

Representatives Say, chairman, Kawakami, Nakasone, Tajiri, Marumoto.

S.B. No. 1148, S.D. 1 (H.D. 2):

Representatives Duldulao, Bunda, co-chairmen, Amaral, Arakaki, Thielen.

S.B. No. 1164, S.D. 1 (H.D. 1):

Representatives Yonamine, Say, co-chairmen, Suzuki, Ward.

S.B. No. 1172, S.D. 1 (H.D. 1):

Representatives Tom, chairman, Herkes, Takamine, Thielen.

S.B. No. 1300, S.D. 2 (H.D. 1):

Representatives Bainum, Kanoho, co-chairmen, Hirono, Morihara, Thielen.

S.B. No. 1316, S.D. 1 (H.D. 2):

Representatives Ige, M., Tom, co-chairmen, Herkes, Morihara, Thielen.

S.B. No. 1354 (H.D. 1):

Representatives Duldulao, Say, co-chairmen, Ward.

S.B. No. 1361, S.D. 1 (H.D. 2):

Representatives Bainum, Say, co-chairmen, Nekoba, Ward.

S.B. No. 1363, S.D. 2 (H.D. 2):

Representatives Yonamine, Tom, co-chairmen, Takamine, Takumi, Ward.

S.B. No. 1393 (H.D. 1):

Representatives Menor, chairman, Herkes, Ishii-Morikami, Thielen.

S.B. No. 1397, S.D. 2 (H.D. 2):

Representatives Takamine, Nakasone, Say, co-chairmen, Thielen.

S.B. No. 1410, S.D. 2 (H.D. 2):

Representatives Bainum, Takamine, Say, co-chairmen, Thielen.

S.B. No. 1422, S.D. 2 (H.D. 2):

Representatives Yonamine, Tom, co-chairmen, Chun, Taniguchi, Thielen.

S.B. No. 1426, S.D. 1 (H.D. 1):

Representatives Yonamine, Alcon, co-chairmen, Takamine, Ward.

S.B. No. 1448, S.D. 1 (H.D. 1):

Representatives Tom, Say, co-chairmen, Suzuki, Ward.

S.B. No. 1473, S.D. 1 (H.D. 1):

- Representatives Ige, M., Nekoba, co-chairmen, Chang, Tajiri, Marumoto.
- S.B. No. 1486, S.D. 1 (H.D. 1):
- Representatives Ishii-Morikami, chairman, Herkes, Menor, Thielen.
- S.B. No. 1488, S.D. 1 (H.D. 1):
- Representatives Ishii-Morikami, chairman, Cachola, Oshiro, Thielen.
- S.B. No. 1489 (H.D. 1):
- Representatives Ishii-Morikami, chairman, Cachola, Herkes, Thielen.
- S.B. No. 1529, S.D. 1 (H.D. 2):
- Representatives Chun, Kawakami, co-chairmen, Arakaki, Santiago, Ward.
- S.B. No. 1531, S.D. 1 (H.D. 1):
- Representatives Say, chairman, Kawakami, Nakasone, Tajiri, Thielen.
- S.B. No. 1538, S.D. 1 (H.D. 2):
- Representatives Duldulao, Say, co-chairmen, Pepper, O'Kieffe.
- S.B. No. 1550, S.D. 1 (H.D. 2):
- Representatives Cachola, Kanoho, co-chairmen, Ishii-Morikami, Kawakami, Marumoto.
- S.B. No. 1564 (H.D. 1):
- Representatives Lee, Say, co-chairmen, Arakaki, Nekoba, Marumoto.
- S.B. No. 1582, S.D. 1 (H.D. 1):
- Representatives Ige, D., Say, co-chairmen, Apo, Suzuki, O'Kieffe.
- S.B. No. 1593, S.D. 1 (H.D. 2):
- Representatives Chun, Tom, Say, co-chairmen, Marumoto.
- S.B. No. 1604, S.D. 3 (H.D. 2):
- Representatives Ige, D., Say, co-chairmen, Chumbley, Kawakami, O'Kieffe.
- S.B. No. 1608, S.D. 1 (H.D. 2):
- Representatives Bainum, Takamine, Say, co-chairmen, Ward.
- S.B. No. 1619, S.D. 1 (H.D. 1):
- Representatives Bunda, chairman, Amaral, Bainum, Thielen.
- S.B. No. 1624, S.D. 1 (H.D. 1):
- Representatives Tom, chairman, Amaral, Menor, Thielen.
- S.B. No. 1629, S.D. 1 (H.D. 1):
- Representatives Bunda, chairman, Bainum, Oshiro, O'Kieffe.
- S.B. No. 1632, S.D. 1 (H.D. 1):
- Representatives Ishii-Morikami, chairman, Herkes, Menor, Thielen.
- S.B. No. 1643, S.D. 2 (H.D. 1):
- Representatives Chun, Say, co-chairmen, Arakaki, Kawakami, Ward.
- S.B. No. 1647, S.D. 1 (H.D. 2):
- Representatives Tom, Say, co-chairmen, Takamine, Ward.
- S.B. No. 1652, S.D. 2 (H.D. 2):
- Representatives Tom, Say, co-chairmen, Takamine, Ward.
- S.B. No. 1664 (H.D. 1):
- Representatives Bunda, chairman, Cachola, Thielen.
- S.B. No. 1666 (H.D. 1):
- Representatives Ishii-Morikami, chairman, Cachola, Hirono, Thielen.
- S.B. No. 1669, S.D. 1 (H.D. 1):
- Representatives Yonamine, Say, co-chairmen, Takumi, Ward.
- S.B. No. 1670, S.D. 2 (H.D. 2):
- Representatives Ige, D., Chun, Kawakami, co-chairmen, Takumi, O'Kieffe.
- S.B. No. 1672 (H.D. 1):
- Representatives Lee, Alcon, co-chairmen, Pepper, Takumi, Ward.
- S.B. No. 1680, S.D. 2, H.D. 3:
- Representatives Isbell, Taniguchi, Say, co-chairmen, O'Kieffe.
- S.B. No. 1706 (H.D. 1):
- Representatives Ishii-Morikami, Alcon, co-chairmen, Peters, Marumoto.
- S.B. No. 1708, S.D. 1 (H.D. 1):
- Representatives Bunda, chairman, Herkes, Thielen.
- S.B. No. 1709, S.D. 2 (H.D. 2):
- Representatives Bunda, Say, co-chairmen, Marumoto.
- S.B. No. 1715, S.D. 2 (H.D. 2):
- Representatives Chun, Duldulao, Say, co-chairmen, Kawakami.
- S.B. No. 1724, S.D. 2 (H.D. 1):
- Representatives Say, chairman, Kanoho, Ward.
- S.B. No. 1726, S.D. 1 (H.D. 1):
- Representatives Say, chairman, Morihara, Nakasone, Ward.

S.B. No. 1729, S.D. 1 (H.D. 1):

Representatives Say, chairman, Kawakami, Suzuki, Ward.

S.B. No. 1744, S.D. 1 (H.D. 2):

Representatives Okamura, Kanoho, co-chairmen, Apo, Morihara, O'Kieffe.

S.B. No. 1751, S.D. 2 (H.D. 2):

Representatives Menor, Kawakami, co-chairmen, Amaral, Santiago, Ward.

S.B. No. 1752, S.D. 2 (H.D. 2):

Representatives Menor, Tom, Tajiri, co-chairmen, Marumoto.

S.B. No. 1770 (H.D. 2):

Representatives Isbell, Say, co-chairmen, Nakasone, Marumoto.

S.B. No. 1810, S.D. 2 (H.D. 2):

Representatives Tom, Say, co-chairmen, Amaral, Pepper, Marumoto.

S.B. No. 1819, S.D. 1 (H.D. 1):

Representatives Tom, chairman, Oshiro, Peters, O'Kieffe.

S.B. No. 1824, S.D. 1 (H.D. 2):

Representatives Isbell, Taniguchi, Tom, co-chairmen, Herkes, Santiago, O'Kieffe.

S.B. No. 1851, S.D. 1 (H.D. 2):

Representatives Stegmaier, Say, co-chairmen, Morihara, Ward.

S.B. No. 1863, S.D. 2 (H.D. 2):

Representatives Say, Cachola, co-chairmen, Chang, Chumbley, Kawakami, Marumoto.

S.B. No. 1874, S.D. 2 (H.D. 2):

Representatives Hiraki, Say, co-chairmen, Apo, Nekoba, Ward.

S.B. No. 1905, S.D. 1 (H.D. 2):

Representatives Duldulao, Say, co-chairmen, Pepper, Marumoto.

S.B. No. 1906, S.D. 1 (H.D. 1):

Representatives Yonamine, Chun, Tajiri, co-chairmen, Marumoto.

Hse. Com. No. 640, informing the Senate that the Speaker on April 20, 1993, discharged Representative Tom as co-chairman and appointed Representative Herkes as co-chairman on the part of the House at the conference on H.B. No. 2051, (S.D. 1).

Hse. Com. No. 641, informing the Senate that the Speaker on April 20, 1993, discharged Representative Chun and appointed Representative Bainum as a manager on the part of the House at the conference on H.B. No. 1088, H.D. 1 (S.D. 1).

Hse. Com. No. 642, informing the Senate that the Speaker on April 20, 1993, discharged Representative Tom as co-chairman and appointed Representative Takamine as co-chairman on the part of the House at the conference on H.B. No. 1671, H.D. 2 (S.D. 2).

Hse. Com. No. 643, informing the Senate that the Speaker on April 20, 1993, discharged Representative Tom as co-chairman and appointed Representative Oshiro as co-chairman on the part of the House at the conference on H.B. No. 1667, H.D. 1 (S.D. 2).

Hse. Com. No. 644, informing the Senate that the amendments proposed by the Senate to the following House bills were agreed to by the House, and said bills, as amended, passed Final Reading in the House of Representatives on April 20, 1993:

H.B. No. 214, S.D. 2;
H.B. No. 361, S.D. 1;
H.B. No. 569, S.D. 1;
H.B. No. 790, H.D. 1, S.D. 1;
H.B. No. 892, H.D. 1, S.D. 1;
H.B. No. 1061, S.D. 1;
H.B. No. 1400, S.D. 1; and
H.B. No. 1411, H.D. 1, S.D. 1.

Hse. Com. No. 645, informing the Senate that the Speaker on April 20, 1993, discharged Representative Tom as co-chairman and appointed Representative Oshiro as co-chairman on the part of the House at the conference on H.B. No. 1655, H.D. 1 (S.D. 1).

Hse. Com. No. 646, informing the Senate that the Speaker on April 20, 1993, added Representative Takamine as co-chairman and appointed Representative Thielen as a manager on the part of the House at the conference on H.B. No. 1653, H.D. 2 (S.D. 2).

Hse. Com. No. 647, informing the Senate that the Speaker on April 20, 1993, discharged Representative Tom as co-chairman and appointed Representative Takamine as co-chairman on the part of the House at the conference on H.B. No. 1647, H.D. 2 (S.D. 1).

Hse. Com. No. 648, informing the Senate that the Speaker on April 20, 1993, discharged Representative Tom as co-chairman and appointed Representative Takamine as co-chairman on the part of the House at the conference on H.B. No. 1538, H.D. 2 (S.D. 2).

Hse. Com. No. 649, informing the Senate that the Speaker on April 20, 1993, added Representative Kawakami as a manager on the part of the House at the conference on H.B. No. 1370, H.D. 2 (S.D. 2).

Hse. Com. No. 650, informing the Senate that the Speaker on April 20, 1993, discharged Representative Tom as co-chairman and appointed Representative Oshiro as co-chairman on the part of the House at the conference on H.B. No. 1120, H.D. 2 (S.D. 2).

Hse. Com. No. 651, informing the Senate that the Speaker on April 20, 1993, discharged Representative Tom as co-chairman and appointed Representative Oshiro as co-chairman on the part of the House at the conference on H.B. No. 284, H.D. 2 (S.D. 1).

Hse. Com. No. 652, informing the Senate that the Speaker on April 20, 1993, discharged Representative Tom as co-chairman and appointed Representative Takamine as a manager on the part of the House at the conference on H.B. No. 433, H.D. 1 (S.D. 1).

Hse. Com. No. 653, informing the Senate that the Speaker on April 20, 1993, discharged Representative Tom as co-chairman and appointed Representative Herkes as co-chairman on the part of the House at the conference on H.B. No. 576, H.D. 1 (S.D. 1).

STANDING COMMITTEE REPORT AND LEADERSHIP COMMITTEE REPORT

Senator Holt, for the Committee on Executive Appointments, presented a report (Ldr. Com. Rep. No. 1639) recommending that the Senate advise and consent to the nomination of KEITH W. AHUE for Chairperson of the Board of Land and Natural Resources, in accordance with Gov. Msg. No. 239.

In accordance with Senate Rule 36(1), action on Ldr. Com. Rep. No. 1639 and Gov. Msg. No. 239 was deferred until Thursday, April 22, 1993.

Senator Nakasato, for the Committee on Tourism, Recreation and Transportation, presented a report (Stand. Com. Rep. No. 1640) recommending that S.R. No. 106, as amended in S.D. 1, be adopted.

On motion by Senator Nakasato, seconded by Senator George and carried, the report of the Committee was adopted and S.R. No. 106, S.D. 1, entitled: "SENATE RESOLUTION REQUESTING THE DEPARTMENT OF TRANSPORTATION TO STUDY THE TRAFFIC PROBLEMS BETWEEN HONALO AND CAPTAIN COOK ON THE ISLAND OF HAWAII," was adopted.

ORDER OF THE DAY

ADVISE AND CONSENT

Ldr. Com. Rep. No. 1637 (Gov. Msg. No. 234):

Senator Holt moved that Ldr. Com. Rep. No. 1637 be received and placed on file, seconded by Senator A. Kobayashi and carried.

Senator Holt then moved that the Senate advise and consent to the nomination of ROBERT A. MARKS for Attorney General, term to expire December 5, 1994, seconded by Senator A. Kobayashi.

Senator Holt rose to speak in support of the nominee and said:

"Mr. President, I rise to speak in support of Governor's Message 234.

"Mr. President, I am pleased today to speak on behalf of Robert A. Marks and to recommend the advise and consent of the Senate for his appointment to the position of Attorney General.

"Mr. Marks is a graduate of the University of Wisconsin where he earned a baccalaureate degree in history. He continued his studies at the University of Cincinnati, College of Law, and received his juris doctor degree in 1977. Several years later, he relocated to Hawaii and was in private practice for approximately six years.

"In 1984 he joined the Attorney General's office as a deputy attorney general in the litigation division. Due to his strong legal abilities he quickly advanced to supervising deputy attorney general of the commerce and economic development division, then to first deputy attorney general and, most recently, acting attorney general. Please note, Mr. President, that these achievements were accomplished over a period of only eight years.

"In addition, the large volume of testimony received by your Committee on Executive Appointments was remarkably consistent in its praise of Mr. Marks' strong legal skills and exceptional ability to assist various state agencies with a variety of legal matters. I believe Robert Marks is an exceptional candidate for state Attorney General.

"For those reasons, I strongly support the advise and consent of the Senate for his appointment, and urge my colleagues to join me in voting in support of Governor's Message 234. Thank you."

Senator Graulty added his support of Mr. Marks and said:

"Mr. President, just a few brief words in support of the nomination and nominee.

"Mr. President, when Bob Marks was in private practice I had not just one case but many cases with Bob, and it was always a pleasure dealing with Bob because I always knew that I was dealing with a real gentleman. I guess in the practice of law ... we have so many lawyers in the State of Hawaii, there are many different kinds of lawyers. There are two classes of lawyers in my mind: those who practice law in what we call 'Mainland style,' where you've got to worry about whether what you said and what you agreed to is actually what is going to happen. But by and large, the most numerous group is the one that practices law 'local style.' Local style, meaning your word is your bond, that you can count on somebody's word. And Bob Marks is one of the guys that I knew, when he said something he meant it, his word was good -- he practiced law 'local style.'

"And it's with great pleasure that I see today Bob being nominated and soon to be confirmed to be our highest legal officer in the State of Hawaii. Number one, he's very deserving, very talented; and number two, we need more people in public service for whom their word is their bond, who understand the intricacies of law, but also never forget that their word and their honor are of the highest importance. I think that's what we have in Bob Marks and I'm very pleased to support his nomination. Thank you, Mr. President."

The motion was put by the Chair and carried on the following showing of Ayes and Noes:

Ayes, 23. Noes, none. Excused, 2 (Kobayashi, B., Chang).

Senator Holt then introduced Mr. Marks, as follows:

"Mr. President, it's my privilege and honor to introduce our new Attorney General, Robert A. Marks. (Stood to be recognized.)

"Mr. Marks is accompanied here today by his wife, Judge Victoria Marks, first deputy AG Ruth Tsujimura, secretary Noreene Kanada, and administrative assistant Ted Baker." (All stood to be recognized.)

Ldr. Com. Rep. No. 1638 (Gov. Msg. Nos. 306, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 308 and 309):

Senator Holt moved that Ldr. Com. Rep. No. 1638 be received and placed on file, seconded by Senator A. Kobayashi and carried.

Senator Holt then moved that the Senate advise and consent to the nominations of the following:

DAN T. KOCHI to the Public Utilities Commission, term to expire June 30, 1998 (Gov. Msg. No. 306);

HENRY NALAIELUA to the Board of Health, term to expire June 30, 1996 (Gov. Msg. No. 284);

BETTYE JO HARRIS and ALFRED LAURETA to the Board of Health, terms to expire June 30, 1997 (Gov. Msg. No. 284);

CARL T. HAMADA to the Statewide Health Coordinating Council, term to expire June 30, 1995 (Gov. Msg. No. 285);

SARAJEAN A. TOKUNAGA to the Statewide Health Coordinating Council, term to expire June 30, 1996 (Gov. Msg. No. 285);

RANDOLPH P. PERREIRA, MERRIE KIM APIOALANI, DAVID EDWARD GIRE, NORMAN J.N. HOLT, SR., KEITH M. HORINOUCI, Dr.P.H., WINIFRED H. ISHIMOTO, LORETTA PETRIE, Ph.D., HIDEO MATSUSHITA and GARY K. KAJIWARA to the Statewide Health Coordinating Council, terms to expire June 30, 1997 (Gov. Msg. No. 285);

MARIANNE RICE SANCHEZ to the Honolulu Subarea Health Planning Council, term to expire June 30, 1994 (Gov. Msg. No. 286);

KATHRYN SMITH RIPPER to the Honolulu Subarea Health Planning Council, term to expire June 30, 1995 (Gov. Msg. No. 286);

ELIZABETH J. HOLMES to the Honolulu Subarea Health Planning Council, term to expire June 30, 1996 (Gov. Msg. No. 286);

LILY H. YAMASHIRO, R.N., M.P.H., to the Honolulu Subarea Health Planning Council, term to expire June 30, 1997 (Gov. Msg. No. 286);

C.O. "ANDY" ANDERSON to the Central Oahu Subarea Health Planning Council, term to expire June 30, 1995 (Gov. Msg. No. 287);

KATHLEEN TANIDA CROWL, PATRICIA ST. JOHN-PAYNE, FAY NAKAMOTO and JANET I. OHTA to the Central Oahu Subarea Health Planning Council, terms to expire June 30, 1997 (Gov. Msg. No. 287);

CECIL BINDEL, BETTY LARRABEE, JOAN LEE MARS and AIRLEEN LUCERO to the Waianae Coast Subarea Health Planning Council, terms to expire June 30, 1997 (Gov. Msg. No. 288);

JEROME O. MANNING, MARY E. SWAN, HANS TAALA and NONA WILSON, R.N., to the Windward Oahu Subarea Health Planning Council, terms to expire June 30, 1997 (Gov. Msg. No. 289);

LITO ASUNCION, RICHARD A. VON GNECHTEN, IVAN S. YAMAMOTO and SHIRLEY ANN YAMAOKA-GREIG to the Hawaii County Subarea Health Planning Council, terms to expire June 30, 1997 (Gov. Msg. No. 290);

NORMAN J.N. HOLT, SR., to the Kauai County Subarea Health Planning Council, term to expire June 30, 1996 (Gov. Msg. No. 291);

DEBORA L.J. AIPOALANI, JUDY PECKENPAUGH and ELEANOR RAGASA to the Kauai County Subarea

Health Planning Council, terms to expire June 30, 1997 (Gov. Msg. No. 291);

A. DUANE BLACK to the Maui County Subarea Health Planning Council, term to expire June 30, 1995 (Gov. Msg. No. 292);

HERBERT A.K. CAMPOS, LEILANI D. HAYS, DEBRA L. JOHNSON and SARAJEAN A. TOKUNAGA to the Maui County Subarea Health Planning Council, terms to expire June 30, 1997 (Gov. Msg. No. 292);

ANA M. ROSAL-SILVA, JAMES E. DEMELLO and KAHU DAVID J. TWIGG to the Board of Human Services, terms to expire June 30, 1997 (Gov. Msg. No. 293);

EVERETT "SONNY" KINNEY, M. MELIA LANE-HAMASAKI, MARLENAJON STAFFORD and HENRY A. "PAPA" AUWAE to the Island Burial Council, Island of Hawaii, terms to expire June 30, 1997 (Gov. Msg. No. 294);

WILMA HEALANI HOLI and ATTWOOD MAIKAI MAKANANI to the Island Burial Council, Islands of Kauai and Niihau, terms to expire June 30, 1997 (Gov. Msg. No. 295);

LIBERT K. LANDGRAF to the Island Burial Council, Islands of Maui and Lanai, term to expire June 30, 1995 (Gov. Msg. No. 296);

CHARLES KAULUWEHI MAXWELL, SR., SAMUEL KALALAU, III, CHRISTIAN E. BAL and ANTHONY AKANA to the Island Burial Council, Islands of Maui and Lanai, terms to expire June 30, 1997 (Gov. Msg. No. 296);

HENRY KEAWE AYAU, JR. and COLETTE Y. MACHADO to the Island Burial Council, Island of Molokai, terms to expire June 30, 1997 (Gov. Msg. No. 297);

JAMES L. AWAI, JR., GARY K. OMORI and THEOLA SILVA to the Island Burial Council, Island of Oahu, terms to expire June 30, 1997 (Gov. Msg. No. 298);

GEORGE W.H. KANIHO and JOELENE K. LONO to the King Kamehameha Celebration Commission, terms to expire June 30, 1995 (Gov. Msg. No. 299);

SHERRY KIHAPIILANI EVANS and ABIGAIL K. ROSA to the King Kamehameha Celebration Commission, terms to expire June 30, 1997 (Gov. Msg. No. 299);

DAVID FITZ-PATRICK, M.D., to the Medical Advisory Board, term to expire June 30, 1996 (Gov. Msg. No. 300);

JEFFREY AKAKA, M.D., and LAWRENCE H. GORDON, M.D., to the Medical Advisory Board, terms to expire June 30, 1997 (Gov. Msg. No. 300);

NANCY K.Y. YUEN and RONALD H. KIENITZ, D.O., to the Board of Osteopathic Examiners, terms to expire June 30, 1997 (Gov. Msg. No. 301);

DENNIS K. GODA and RONALD T. IWATA to the County Public Health Facility Management Advisory Committee, City and County of Honolulu, terms to expire June 30, 1997 (Gov. Msg. No. 302);

TSING Y. CANNON to the County Public Health Facility Management Advisory Committee, County of Hawaii, term to expire June 30, 1994 (Gov. Msg. No. 303);

RALPH C. BOYEA and WALTER DUDOIT to the County Public Health Facility Management Advisory Committee, County of Hawaii, terms to expire June 30, 1997 (Gov. Msg. 303);

JUAN M. FRANCISCO and YONEMICHI MIYASHIRO, M.D., to the County Public Health Facility Management Advisory Committee, County of Kauai, terms to expire June 30, 1997 (Gov. Msg. No. 304);

GEORGE POWELL, M.D., to the County Public Health Facility Management Advisory Committee, County of Maui, term to expire June 30, 1995 (Gov. Msg. No. 305);

JOHN E.K. AKANA and WAYNE M.T. LU to the County Public Health Facility Management Advisory Committee, County of Maui, terms to expire June 30, 1997 (Gov. Msg. No. 305);

DALE T. MATSUMOTO-OI, WILSON MURAKAMI, M.D., and JEAN M. NAKASATO to the Board of Speech Pathology and Audiology, terms to expire June 30, 1996 (Gov. Msg. No. 308); and

CRAIG M. NISHIMOTO, D.V.M., and JOY A. SHIMABUKU to the Board of Veterinary Examiners, terms to expire June 30, 1997 (Gov. Msg. No. 309),

seconded by Senator A. Kobayashi.

Senator Holt rose to speak in support of the nominees, as follows:

"Mr. President, I rise to speak in support of all the Governor's Messages included in Standing Committee Report 1638.

"Your Committee on Executive Appointments had a confirmation hearing on all the nominees. All the testimony was in unanimous support of the nominees and I urge my colleagues to vote in support of the Governor's Messages as designated in Standing Committee Report 1638. Thank you."

The motion was put by the Chair and carried on the following showing of Ayes and Noes:

Ayes, 24. Noes, none. Excused, 1 (Chang).

Senator Matsuura then rose to speak on a point of personal privilege, as follows:

"Mr. President, yesterday I mentioned about the major breakthrough in the field of energy (the open-cycle OTEC). Today I have another good news. The geothermal well has been vented with no adverse effect. The H₂S level has been in the realm of about 3 parts per billion. In about an hour they'll pass the steam through the power plant and, hopefully, by Friday we will have electricity on the line on the Big Island. I cite all these things because I want to give credit to the late Sparky Matsunaga because he was instrumental in getting this alternative energy started in Hawaii. Matt, again, thank you for your father's vision.

"Mr. President, there is a fact sheet from the Pacific International Center for High Technology Research, regarding the 210 kWe open-cycle ocean thermal energy

conversion experimental facility, which I would like to have inserted into the Journal. Thank you."

The Chair approved the inclusion of the fact sheet and it states:

"The 210 kWe(gross) Open-Cycle Ocean Thermal Energy Conversion (OTEC) Experimental Facility

There are, basically, two approaches to the extraction of thermal energy from the oceans, one referred to as 'closed-cycle' and the other 'open-cycle.' In the closed-cycle, warm surface seawater and cold deep seawater are used to vaporize and condense a working fluid, such as ammonia, which drives a turbine-generator in a closed loop producing electricity. In the open-cycle, surface seawater is flash-evaporated in a vacuum chamber at pressures of approximately 3% atmospheric. The resulting low-pressure steam is used to drive a turbine-generator. Cold seawater is used to condense the steam after it has passed through the turbine. The open-cycle can, therefore, be configured to produce fresh water as well as electricity.

Several small proof-of-concept facilities have been operated for up to six months, but unfortunately, minimal operational data has been obtained. These projects demonstrated that both cycles are technically feasible and limited only by the large diameters required for the cold water pipes to sizes of no more than about 100 MW gross. In the case of the open-cycle, due to the low-pressure steam the turbine is presently limited to sizes of no more than 3 MW gross.

As the next step towards answering some of the questions related to the operation of OTEC plants, realizable with the minimal funding available, a small OC-OTEC land-based experimental facility has been installed and will be operated until 1995 at the Natural Energy Laboratory of Hawaii (NELH), Kailua-Kona, Hawaii. The offshore and inland seawater piping system (1 m cold water pipe) already installed at NELH is utilized. The power block is built around a single, vertical-axis, mixed-flow turbine supported by a concrete vacuum vessel, 7.6 m in diameter and 9.5 m high. The electrical generator is located above the turbine assembly and outside the vacuum enclosure. Steam is produced in an annular flash evaporator at the periphery of the vacuum vessel. The steam flows up from the evaporator and enters the turbine radially inward. The steam exits the turbine axially in the center of the vessel. A conical exhaust diffuser is used for pressure recovery. The condenser is a direct-contact, structured-packing condenser composed of two coaxial stages. The non-condensable gases liberated from the seawater streams, at pressures of 1% to 3% atmospheric, and a small amount of uncondensed steam are compressed and exhausted using a multiple-stage vacuum compression system. All subsystems have been instrumented to measure the parameters required to assess performance.

This experimental facility will demonstrate the feasibility of the low pressure open-cycle turbine and the high efficiency vacuum compression subsystems. Additionally, the production of net power will be demonstrated; therefore, the system is also referred to as the Net Power Producing Experiment, or NPPE. The turbine-generator nominal gross output is 210 kWe for a surface temperature of 26°C and a deep water temperature of 6°C. Given the infrastructure already available at NELH, only 40 to 50 kWe net will be obtained. As of March 1993, the highest surface temperature available was 25°C (the range at the site is from 24°C to 28°C) and 190 kWe (gross) has been produced. This is a world record for OTEC."

Senator Holt also rose to speak on a point of personal privilege and said:

"Mr. President, I rise on a point of personal privilege.

"Mr. President, will the chairman of the Education, Labor and Employment Committee yield to a question?"

The President posed the question to the chairman and Senator McCartney having responded in the affirmative, Senator Holt inquired:

"Mr. President, as I recall, at last year's Democratic Convention, the Democratic Party adopted a provision calling for the dedication of 30 percent of the state's revenue for education. We all know that the chairman strongly supported this concept. Can he tell us if we have reached this level of funding in the Senate's version of the budget?"

Senator McCartney answered:

"Mr. President, it's questionable whether I supported the 30 percent or 35 percent but, no, the Senate budget doesn't reach that level but what we can be proud of in the Senate budget is that we are \$11.9 million above the governor's budget recommendation; we are significantly above the House recommendation. I believe the conferees of the Senate and the House are working very hard to improve the quality of education in the budget recommendations, including restructuring the way we fund schools."

Senator Holt continued:

"Mr. President, the reason for my question was to check on our progress toward one of the more important goals that we as a majority party adopted. I hope that in the few remaining days of the session, we will be able to do more for education than what we have now. I'm making these remarks because I think it should be one of our top priorities. If anything, the welfare of our educational system, both the DOE and UH, should be our most important priority. In my mind, and I must agree with the Advertiser's editorial, I believe it was yesterday, that it's even more important than selecting a site for the convention center. Thank you."

RECONSIDERATION OF ACTIONS TAKEN

S.B. No. 192, S.D. 1, H.D. 1:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by the House to S.B. No. 192, S.D. 1, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 192, S.D. 1, and S.B. No. 192, S.D. 1, H.D. 1, entitled: "A BILL FOR AN ACT RELATING TO MEDICAL CLAIM CONCILIATION," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

S.B. No. 195, S.D. 1, H.D. 1:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by the House to S.B. No. 195, S.D. 1, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 195, S.D. 1, and S.B. No. 195, S.D. 1, H.D. 1, entitled: "A BILL FOR AN

ACT RELATING TO MEDICAL TORTS," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

S.B. No. 205, H.D. 1:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by House to S.B. No. 205, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 205, and S.B. No. 205, H.D. 1, entitled: "A BILL FOR AN ACT RELATING TO COURTS," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

S.B. No. 281, S.D. 1, H.D. 1:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by the House to S.B. No. 281, S.D. 1, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 281, S.D. 1, and S.B. No. 281, S.D. 1, H.D. 1, entitled: "A BILL FOR AN ACT RELATING TO ELECTIONS," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

S.B. No. 689, S.D. 1, H.D. 1:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by House to S.B. No. 689, S.D. 1, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 689, S.D. 1, and S.B. No. 689, S.D. 1, H.D. 1, entitled: "A BILL FOR AN ACT RELATING TO PARENTAGE," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

S.B. No. 690, S.D. 1, H.D. 1:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by the House to S.B. No. 690, S.D. 1, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 690, S.D. 1, and S.B. No. 690, S.D. 1, H.D. 1, entitled: "A BILL FOR AN ACT RELATING TO PARENTAGE," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

S.B. No. 789, S.D. 1, H.D. 2:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by the House to S.B. No. 789, S.D. 1, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 789, S.D. 1, and S.B. No. 789, S.D. 1, H.D. 2, entitled: "A BILL FOR AN ACT RELATING TO GENERAL EXCISE TAX EXEMPTIONS FOR AFFORDABLE HOUSING," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

S.B. No. 1164, S.D. 1, H.D. 1:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by House to S.B. No. 1164, S.D. 1, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 1164, S.D. 1, and S.B. No. 1164, S.D. 1, H.D. 1, entitled: "A BILL FOR AN ACT RELATING TO THE PUBLIC EMPLOYEES HEALTH FUND," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

S.B. No. 1181, S.D. 1, H.D. 1:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by the House to S.B. No. 1181, S.D. 1, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 1181, S.D. 1, and S.B. No. 1181, S.D. 1, H.D. 1, entitled: "A BILL FOR AN ACT RELATING TO VOTER REGISTRATION," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

S.B. No. 1214, H.D. 1:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by House to S.B. No. 1214, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 1214, and S.B. No. 1214, H.D. 1, entitled: "A BILL FOR AN ACT RELATING TO THE UNIFORM SIMULTANEOUS DEATH ACT," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

S.B. No. 1393, H.D. 1:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by the House to S.B. No. 1393, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 1393, and S.B. No. 1393, H.D. 1, entitled: "A BILL FOR AN ACT RELATING TO PAROLE," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

S.B. No. 1538, S.D. 1, H.D. 2:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by the House to S.B. No. 1538, S.D. 1, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 1538, S.D. 1, and S.B. No. 1538, S.D. 1, H.D. 2, entitled: "A BILL FOR AN ACT RELATING TO EMERGENCY MEDICAL SERVICES," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

S.B. No. 1584, S.D. 1, H.D. 1:

Senator Ikeda moved that the Senate reconsider its action taken on April 16, 1993, in disagreeing to the amendments proposed by the House to S.B. No. 1584, S.D. 1, seconded by Senator Koki and carried.

On motion by Senator Ikeda, seconded by Senator Koki and carried, the Senate agreed to the amendments proposed by the House to S.B. No. 1584, S.D. 1, and S.B. No. 1584, S.D. 1, H.D. 1, entitled: "A BILL FOR AN ACT RELATING TO VEXATIOUS LITIGANTS," was placed on the calendar for Final Reading on Thursday, April 22, 1993.

At 12:13 o'clock p.m., the Senate stood in recess subject to the call of the Chair.

The Senate reconvened at 12:19 o'clock p.m.

ADJOURNMENT

At 12:20 o'clock p.m., on motion by Senator Ikeda, seconded by Senator George and carried, the Senate adjourned until 11:30 o'clock a.m., Thursday, April 22, 1993.