



UNIVERSITY OF HAWAII SYSTEM

Legislative Testimony

Written Testimony Presented Before the House Committee on Higher Education

March 24, 2009, 2:15 p.m.

by

Virginia S. Hinshaw, Chancellor

and

Kathy Cutshaw

Vice Chancellor for Administration, Finance and Operations
University of Hawai'i at Mānoa

SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Chair Chang, Vice Chair Nakashima, and members of the House Committee on Higher Education, thank you for this opportunity to provide testimony on SB 504 SD2 to make an appropriation to the University of Hawai'i at Mānoa for the establishment of a sustainability internship program.

Unfortunately, we cannot support the bill in its current form because of our many other pressing budget priorities, such as our tremendous need for repairs and maintenance, which are critical to our ability to perform our core mission for the State of Hawaii. We are grateful to the Legislature's attention to these needs. We recognize that you have many priorities and issues to weigh for the state, so the following substantive information on this program is provided to assist you in your decision-making process. We are open to continuing this discussion with you and any interested parties in support of this measure.

We appreciate and share the interest expressed in this legislation for supporting sustainability efforts, particularly focusing on education and energy conservation. UH Mānoa currently supports several initiatives in this area:

- We currently utilize one graduate student in the Facilities Management office to conduct research on sustainability, promote energy-savings projects, and to oversee student volunteers;
- We've established an energy management office within Facilities Management consisting of 2 FTE positions and two graduate assistants;
- We fund the UH Mānoa Sustainability Council with 1 FTE and an operating budget of approximately \$80,000;
- Sea Grant has 1.5 FTE and financial support of \$50,000 to plan and conduct a campus-wide delamping program;

- We have a .5 FTE position at the School of Ocean & Earth Science & Technology devoted to energy conservation efforts; and
- We are in the process of staffing an Office of Physical and Environmental Planning to focus on integrating sustainability into long-range planning and daily resource management.

Thank you for this opportunity to testify.

Testimony of ERIK KVAM
Chief Executive Officer of Zero Emissions Leasing LLC
2800 Woodlawn Drive, Suite 131, Honolulu, Hawaii 96822
tel: 808-371-1475 e-mail: ekvam@zeroemissions.us

In support of SB 504 SD 2 RELATING TO THE UNIVERSITY OF HAWAII

Before the
HOUSE COMMITTEE ON HIGHER EDUCATION

March 24, 2009, 2:15 p.m.

Good afternoon, Chair Chang, Vice-Chair Nakashima and members of the Committee.

My name is Erik Kvam. I am the CEO of a Hawaii solar power developer called Zero Emissions Leasing LLC ("Zero Emissions").

SB 504 provided for an appropriation of \$207,000 for fiscal year 2009-2010, and the same amount for fiscal year 2010-2011, to establish a sustainability internship program at the University of Manoa (UHM). Zero Emissions SUPPORTS enactment of SB 504.

The State's investment of \$207,000 for the program for the first year 2009-2010 and the same for fiscal year 2010-2011 would be returned a minimum of four-fold with \$2 million in energy savings at UHM as well as savings at DOE schools and the creation of a green work force.

The goals of the sustainability internship program are to:

- create green jobs in Hawaii's fastest growing sectors of the economy
- save the University of Hawaii and the State millions of dollars in operating costs each year
- train DOE schools to substantially cut operating costs through energy efficiency
- create opportunities for students to gain empowering experience, supportive connections and access to green careers in Hawaii

The Sustainable Saunders program has:

- found \$146,000 in annual no-cost energy savings in Saunders Hall
- found \$700,000 in annual no-cost energy savings in the Hamilton Library
- shown the potential for similar campus wide savings in that UHM uses 3.2x the amount of energy/sqft as UC-Santa Barbara

The proposed sustainability internship program would:

- energy audit UHM’s campus with the goal of finding a minimum of \$2million in energy savings campus wide
- help DOE schools to find energy savings in response to requests such as these:
 - “I am wondering if your group that did an environmental impact study of a building at UH has a business doing this type of thing? My son's school is facing financial problems and they may have to let go of some teachers. If you have a business doing this I would like to refer his principal to you for a consultation.”
- Create a much needed ‘green’ work force for Hawaii – the fastest growing sectors of Hawaii’s economy is renewable energy: (8.4%, 4 times greater growth than Hawaii’s average) as well as environmental consulting at 4.1% growth
- UH could be the focus of the nation for sustainability that would gain them credibility, financial support as well as a higher student retention rate.

The proposed sustainability internship program would benefit:

Students

- Gain experience and be able to work in a field that they are interested instead of part-time jobs unrelated to professional pursuits or academic life.
- Training in sustainable practices/principles that can be used on resume as well as makes connections and networks within the same field.

The UHM Campus

- Gives national recognition for sustainability
- Attracts more students that are interested in sustainability
- The program is based on a proven business model that has been financially self-sustaining within two years at Harvard and UC Berkeley.

The State of Hawai’i

- Creates an experienced, educated workforce for growing economic sectors as well as affordable entry-level positions in sustainability.
- Gives employers opportunities to pilot positions and candidates
- Helps retain HI’s best and most dedicated students

Thank you for providing this opportunity to testify.

From: Wade.Mukai@interfaceflor.com
Sent: Saturday, March 21, 2009 5:15 PM
To: HEDtestimony
Subject: In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII
Importance: High

Testimony of Wade Mukai

Account Executive- Hawaii / Interface Inc. dba InterfaceFLOR LLC

96-210 Waiawa Road, Unit #112, Pearl City, HI 96782

Tel: 808.782.2214 E-mail: wade.mukai@interfaceflor.com

In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Before the

HIGHER EDUCATION COMMITTEE

Tuesday, March 24, 2009

Good afternoon Chair Representative Jerry Chang, Vice-chair Representative Mark Nakashima and Committee Members,

My name is Wade Mukai . I am of Interface Inc. dba InterfaceFLOR LLC, Account Executive- Hawaii .

SB504 SD2 provides for an appropriate of \$207,000 for fiscal year 2009-2010 and the same amount for fiscal year 2010-2011, to establish a sustainability internship program at the University of Hawai'i of Manoa (UHM). **InterfaceFLOR LLC supports** enactment of SB504 SD2.

The State's investment of \$207,000 for the program for the first year 2009-2010 and the same for fiscal year 2010-2011 would be returned a minimum of four-fold with \$2million in energy savings at UHM as well as savings at DOE schools and the creation of a green workforce.

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a building at UH has a business doing this type of thing? My son's school is facing financial problems and they may have to let go of some teachers. If you have a business doing this I would like to refer his principal to you for a consultation."

- Create a much needed 'green' work force for Hawaii – the fastest growing sectors of Hawaii's economy is renewable energy: (8.4%, 4 times greater growth than Hawaii's average) as well as environmental consulting at 4.1% growth.
- UH could be the focus of the nation for sustainability that would gain them credibility, financial support as well as a higher student retention rate.

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Students and Youth

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- o Gives employers opportunities to pilot positions and candidates
- o Helps retain Hawaii's best and most dedicated students

Thank you for providing this opportunity to testify.

Wade T. Mukai
Account Executive

InterfaceFLOR
Pacific South - Hawaii / Guam

96-210 Waiawa Road, Apt. #112
Pearl City, HI 96782
808.782.2214 cell / direct line
808.735.2090 fax
wade.mukai@interfaceflor.com

Need Samples? Log onto InterfaceFLOR website- <http://www.interfaceflor.com>

Need TAC TILES installation information / product specs - <http://www.interfaceflor.com/tactiles>

Need Sustainability Information? - <http://www.interfacesustainability.com>

i2 Collection Website - <http://www.interfaceflooring.com/entropy2>

From: John Sweeney [john@styrophobia.com]
Sent: Monday, March 23, 2009 8:18 AM
To: HEDtestimony
Subject: Testimony for SB504 SD2

Testimony of John Sweeney

Sales Director, Styrophobia, LLC
3133 Waiialae Avenue #3903
Honolulu, HI 96816

234-7336
john@styrophobia.com

In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Before the

HIGHER EDUCATION COMMITTEE

Tuesday, March 24, 2009

Good afternoon Chair Representative Jerry Chang, Vice-chair Representative Mark Nakashima and Committee Members,

My name is John Sweeney. I am of Styrophobia and Sales Director.

SB504 SD2 provides for an appropriate of \$207,000 for fiscal year 2009-2010 and the same amount for fiscal year 2010-2011, to establish a sustainability internship program at the University of Hawai'i of Manoa (UHM). Styrophobia supports enactment of SB504 SD2.

Styrophobia is a Honolulu based organization working to reduce environmental degradation and economic injustice by sponsoring educational outreach campaigns, promoting grassroots community networking, and distributing sustainable alternatives for single-use food service disposables. In 2008, we received the award for Business with a Green Purpose from Who's Keeping Hawaii Green and the Environmentally Friendly Local Company award at the John R. Kelly Environmental Awards ceremony.

As one of many local companies seeking the most sustainable future for our precious islands, we fully support Bill SB504 SD1 and the efforts of Sustainable Saunders to make the University of Hawai'i and the state as a whole more secure and profitable through sustainable practices.

Additionally, we agree that this program offers local students the opportunity to remain in Hawaii while receiving valuable real-world experience, and we are extremely interested in having an intern work with us on some of our many projects in the near future.

We ask the committee to pass this bill as an investment in the present and future of Hawai'i.

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a building at UH has a business doing this type of thing? My son's school is facing financial problems and they may have to let go of some teachers. If you have a business doing this I would like to refer his principal to you for a consultation.²

- Create a much needed green¹ work force for Hawaii - the fastest growing sectors of Hawaii's economy is renewable energy: (8.4%, 4 times greater growth than Hawaii's average) as well as environmental consulting at 4.1% growth.
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- o Gives employers opportunities to pilot positions and candidates
- o Helps retain Hawaii's best and most dedicated students

Thank you for providing this opportunity to testify.

--

Mahalo Nui,

John Sweeney
Distributor Sales
808-230-0799
john@styrophobia.com

"The task ahead of us is never as great as the power behind us." -Ralph Waldo Emerson

Testimony of Vance Arakaki
Sustainability Overseer, UHM Sustainable Saunders
1945 Kuapapa Place
Honolulu, Hawai'i 96819
tel: 808.372.8118 e-mail: varakaki@hawaii.edu

In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Before the
HIGHER EDUCATION COMMITTEE

Tuesday, March 24, 2009

Aloha Chair Representative Jerry Chang, Vice-chair Representative Mark Nakashima and Committee Members,

My name is Vance Arakaki, a UH Mānoa Shilder College of Business undergraduate and contributor to the UH Mānoa Sustainable Saunders organization.

SB504 SD2 provides for an appropriate of \$207,000 for fiscal year 2009-2010 and the same amount for fiscal year 2010-2011, to establish a sustainability internship program at the University of Hawai'i of Manoa (UHM). I, Vance Arakaki, support the enactment of SB504 SD2.

I have been a Sustainable Saunders volunteer for two years now as the Sustainability Overseer since it's inception in January 2007 and it has been life changing for me. The diverse, passionate, energetic, and dynamic team has taught me so much about sustainability. In sync with my business education, the Sustainable Saunders program allowed me to put my education to practice on a daily basis. The program is empowering and helped me build transferrable and core skills.

Coming from a background in carpentry, cabinet making, air-conditioning, and refrigeration, I found Sustainable Saunders to be a channel to use my skills for a much greater purpose. I feel so happy and fortunate to be able to help mentor other students joining our group, share everything I know about sustainability, and help them find their niche like I have, connecting my passion for design and construction with sustainability. Our group truly takes it to heart when we call our selves the HUB, standing for Help Us Bridge rather than watch us protest. We continue to develop an amazing network of students, faculty, business people, and organizations which is one our of top strengths in resource management. With this network, we want to connect the community and create sustainability.

The only way I can share my experiences and help others find their place in this new green collar economy is to have a Sustainability Internship Program. I would feel so blessed to have such an opportunity, to stay in Hawai'i and do what I love to do for YOU

The State's investment of \$207,000 for the program for the first year 2009-2010 and the same for fiscal year 2010-2011 would be returned a minimum of four-fold with \$2 million in energy savings at UHM as well as savings at DOE schools and the creation of a green workforce.

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Thank you for providing this opportunity to testify.

From: Kate Raastad [raastad@hawaii.edu]
Sent: Friday, March 20, 2009 4:52 PM
To: HEDtestimony
Subject: Re: [HUB] EMAIL in TESTIMONY FOR SSIP BILL!

>
>Bill SB504 SD2
>University of Hawaii, Sustainable Saunders
>Address: 3349A Paalea St Honolulu, HI 96816
>Tel: 927-7742 E-mail:raastad@hawaii.edu
>
>In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII
>
>Before the
>HIGHER EDUCATION COMMITTEE
>
>Tuesday, March 24, 2009
>
>Good afternoon Chair Representative Jerry Chang, Vice-chair
>Representative Mark Nakashima and Committee Members,
>
>My name is Kate Raastad. I am a member of Sustainable Saunders at the
University of Hawaii.
>
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From: Jennifer Milholen [milholen.jennifer@gmail.com]
Sent: Saturday, March 21, 2009 11:27 AM
To: HEDtestimony
Subject: Testimony in Support of SB504 SD2 relating to the University of Hawaii

Testimony of Jennifer Milholen

UHM - Sustainable Saunders

3271 Kehau Pl. Honolulu, HI 96816

Tel: (404) 414-5327 E-mail: milholen.jennifer@gmail.com

In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Before the

HIGHER EDUCATION COMMITTEE

Tuesday, March 24, 2009

Good afternoon Chair Representative Jerry Chang, Vice-chair Representative Mark Nakashima and Committee Members,

My name is Jennifer Milholen. I am of UHM Sustainable Saunders group.

SB504 SD2 provides for an appropriate of \$207,000 for fiscal year 2009-2010 and the same amount for fiscal year 2010-2011, to establish a sustainability internship program at the University of Hawai'i of Manoa (UHM). I **support** enactment of SB504 SD2.

-- I originally moved to Hawaii from Georgia to work as an organic farmer and found this amazing group, Sustainable Saunders. I have been so impressed at the initiative and ability of this group to understand the issues that need to be addressed on campus and throughout Hawaii; then actually do something about it. They do more than discuss what needs to change, they go out and they make the changes. and the results have been inspiring. They have managed to save the University hundreds of thousands of dollars in energy savings at no cost.

I believe that with the initial funds, an educated group of students could accomplish amazing things for the campus and then Hawaii. Hawaii and its people not only have great opportunity in supporting this bill, but great imperative. In the times like these when it seems the most difficult to give funds it is often the most necessary. Creating a green work force and saving that energy is crucial right now. --

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Thank you for providing this opportunity to testify.

From: Lisa Galloway [lisa.m.galloway@gmail.com]
Sent: Monday, March 23, 2009 7:01 AM
To: HEDtestimony
Cc: Shanah; Nat Pak; uhm-sustainable-coe@hawaii.edu
Subject: Testimony in support of SB 504 SD2

Testimony of :
Lisa Galloway, Coordinator
Culturally Responsive Curricula Projects
Center on Disability Studies
College of Education
University of Hawai'i at Manoa
1776 University Avenue, UA 1-5
Honolulu, HI 96822

In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Before the: HIGHER EDUCATION COMMITTEE

Tuesday, March 24, 2009

Good afternoon Chair Representative Jerry Chang, Vice-chair
Representative Mark Nakashima and Committee Members,

My name is Lisa Galloway, Science Project Coordinator at the College of Education at UH-Manoa.

SB504 SD2 provides for an appropriate of \$207,000 for fiscal year
2009-2010 and the same amount for fiscal year 2010-2011, to establish
a sustainability internship program at the University of Hawai'i of
Manoa (UHM). Company/Name supports enactment of SB504 SD2.

As a member of the College of Education's Sustainability I have seen first hand
the kinds of students this bill will support and the sustainability activities they are dedicated to.
Sustainable Saunders members Shanah Trevennah and Nat Park have been highly
instrumental in getting Sustainable COE off the ground, and inspiring our faculty and
students to educate ourselves and others to promote a just and sustainable future for
the people of Hawaii. I believe the hard work these students have already performed will continue
and grow with your favorable actions today, and ultimately do much to make Hawaii a model
of sustainable practices for others on the mainland and elsewhere to follow.

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- o Helps retain Hawaii's best and most dedicated students

Thank you for providing this opportunity to testify.

L. Galloway

From: Dane Sjoblom [sjoblom@hawaii.edu]
Sent: Sunday, March 22, 2009 12:30 PM
To: HEDtestimony
Subject: Sustainable Saunders Bill

Testimony of Dane Sjoblom

Department of Urban and Regional Planning, UH Manoa

1821 Keeaumoku Street #302

Tel: (808) 283-5260

E-mail: sjoblom@hawaii.edu

In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Before the

HIGHER EDUCATION COMMITTEE

Tuesday, March 24, 2009

Good afternoon Chair Representative Jerry Chang, Vice-chair Representative Mark Nakashima and Committee Members,

My name is Dane Sjoblom and I am currently a masters student in the Department of Urban and Regional Planning at UH Manoa.

SB504 SD2 provides for an appropriate of \$207,000 for fiscal year 2009-2010 and the same amount for fiscal year 2010-2011, to establish a sustainability internship program at the University of Hawai'i of Manoa (UHM). **Company/Name supports** enactment of SB504 SD2.

The State's investment of \$207,000 for the program for the first year 2009-2010 and the same for fiscal year 2010-2011 would be returned a minimum of four-fold with \$2million in energy savings at UHM as well as savings at DOE schools and the creation of a green workforce.

The goals of the sustainability internship program are to:

- create green jobs in Hawaii's fastest growing sectors of the economy
- save the University of Hawaii and the State millions of dollars in operating costs each year
- train DOE schools to substantially cut operating costs through energy efficiency
- create opportunities for students to gain empowering experience, supportive connections and access to green careers in Hawaii

The Sustainable Saunders program has:

- found \$146,000 in annual no-cost energy savings in Saunders Hall
- found \$700,000 in annual no-cost energy savings in the Hamilton Library
- shown the potential for similar campus wide savings in that UHM uses 3.2x the amount of energy/sqft as UCSanta Barbara

The proposed sustainability internship program would:

- energy audit UHM's campus with the goal of finding a minimum of \$2million in energy savings campus wide
- help DOE schools to find energy savings in response to requests such as these:

"I am wondering if your group that did an environmental impact study of

a building at UH has a business doing this type of thing? My son's school is facing financial problems and they may have to let go of some teachers. If you have a business doing this I would like to refer his principal to you for a consultation."

- Create a much needed 'green' work force for Hawaii – the fastest growing sectors of Hawaii's economy is renewable energy: (8.4%, 4 times greater growth than Hawaii's average) as well as environmental consulting at 4.1% growth.
- UH could be the focus of the nation for sustainability that would gain them credibility, financial support as well as a higher student retention rate.

The proposed sustainability internship program would benefit:

Students and Youth

- o Gain experience and be able to work in a field that they are interested instead of part-time jobs unrelated to professional pursuits or academic life.
- o Training in sustainable practices/principles that can be used on resume as well as makes connections and networks within the same field.

The UHM Campus

- o Gives national recognition for sustainability
- o Attracts more students that are interested in sustainability
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The state of Hawai'i

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- o Gives employers opportunities to pilot positions and candidates
- o Helps retain Hawaii's best and most dedicated students

Thank you for providing this opportunity to testify.

Dane Sjoblom

Testimony of Chloe Milligan
University of Hawaii
1043 B Nehoa St, Honolulu HI, 96822
Tel:805-455-7400 E-mail:chloejm@hawaii.edu

In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Before the
HIGHER EDUCATION COMMITTEE

Tuesday, March 24, 2009

Good afternoon Chair Representative Jerry Chang, Vice-chair Representative Mark Nakashima and Committee Members,

My name is Chloe Milligan. I am a student of the University of Hawaii

SB504 SD2 provides for an appropriate of \$207,000 for fiscal year 2009-2010 and the same amount for fiscal year 2010-2011, to establish a sustainability internship program at the University of Hawai'i of Manoa (UHM). Chloe Milligan supports enactment of SB504 SD2.

The State's investment of \$207,000 for the program for the first year 2009-2010 and the same for fiscal year 2010-2011 would be returned a minimum of four-fold with \$2million in energy savings at UHM as well as savings at DOE schools and the creation of a green workforce.

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The proposed sustainability internship program would:

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Thank you for providing this opportunity to testify.

Chloe Milligan
University of Hawaii

From: leyla cabugos [cabugos@gmail.com]
Sent: Saturday, March 21, 2009 5:51 PM
To: HEDtestimony
Subject: Testimony in support of the Sustainable Saunders Internship Bill

Testimony of Leyla Cabugos
MS Botany, UH Manoa 2008
2424 Waiomao Rd., Apartment A, Honolulu, HI 96816
Tel: 808.561.3754
E-mail: cabugos@gmail.com

In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Before the

HIGHER EDUCATION COMMITTEE

Tuesday, March 24, 2009

Good afternoon Chair Representative Jerry Chang, Vice-chair Representative Mark Nakashima and Committee Members,

My name is Leyla Cabugos. I recently completed a master's degree in botany at the University of Hawai'i at Manoa.

SB504 SD2 provides for an appropriation of \$207,000 for fiscal year 2009-2010 and the same amount for fiscal year 2010-2011, to establish a sustainability internship program at the University of Hawai'i of Manoa (UHM). I support enactment of SB504 SD2.

As a recent graduate of the University of Hawai'i at Manoa, where my work with native plant species for green roofs lead me to interface with Sustainable Saunders, I observed first hand how the program has strengthened the sense of community on our largely commuter campus, inspired students to get involved in community service, and empowered students to build job skills from their commitment to environmental stewardship. This last point is of critical importance as we enter the job market in a changing economy, where most employers expect new hires to have on the job experience and show leadership qualities. For students like myself, who go directly to graduate school, work to earn tuition, and participate in community service activities in our free time, an internship experience that provides all of these elements is an incredible boon. I only wish there had been an opportunity to participate in the Sustainable Saunders initiative as a paid intern while I was a student, as it

would have helped me tremendously in my current search for meaningful employment.

The Sustainable Saunders Internship Program promises to be an effective means of decreasing the University of Hawaii's energy bill, providing necessary job skills training and experience and cultivating a sense of community and student engagement for a more sustainable Hawai'i.

I can think of no more positive and productive way in which the Legislature could support the empowerment and employment potential of Hawaii's students, increase our prospects for a sustainable future.

The State's investment of \$207,000 for the program for the first year 2009-2010 and the same for fiscal year 2010-2011 would be returned a minimum of four-fold with \$2million in energy savings at UHM as well as savings at DOE schools and the creation of a green workforce.

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The proposed sustainability internship program would:

- energy audit UHM's campus with the goal of finding a minimum of \$2million in energy savings campus wide
- help DOE schools to find energy savings in response to requests such as these:

"I am wondering if your group did an environmental impact study of a building at UH or has a business doing this type of thing? My son's school is facing financial problems and they may have to let go of some teachers. If you have a business doing this I would like to refer his principal to you for a consultation."

- Create a much needed 'green' work force for Hawaii – the fastest growing sectors of Hawaii's economy is renewable energy: (8.4%, 4 times greater growth than Hawaii's average) as well as environmental consulting at 4.1% growth.
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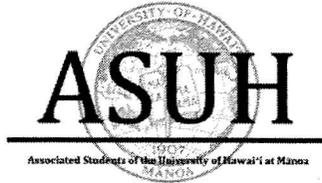
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- o Gives national recognition for sustainability
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- o The program is based on a proven business model that has been financially self-sustaining within two years at Harvard and UC Berkeley.

The state of Hawai'i

- o Creates an experienced, educated workforce for growing economic sectors as well as affordable entry-level positions in sustainability.
- o Gives employers opportunities to pilot positions and candidates
- o Helps retain Hawaii's best and most dedicated students

Thank you for providing this opportunity to testify.



ASSOCIATED STUDENTS OF THE UNIVERSITY OF HAWAI'I AT MĀNOA
2465 Campus Road, Campus Center 211A
Honolulu HI 96822

Testifier: Matt Prellberg on behalf of ASUH
Bill Number and Title: SB 504, SD 2
Committee: House Higher Education
Hearing Date: Tuesday, March 24, 2009
Hearing Time: 2:15
Hearing Location: Conference Room 309

Dear Chair Chang, Vice-Chair Nakashima, and Members of the Committee on Higher Education:

Thank you for the opportunity to testify. My name is Matt Prellberg, I am a Senator and Chairperson of the External Affairs Committee for the Associated Students of the University of Hawai'i at Manoa Senate, the elected body representing approximately 14,000 undergraduate students. ASUH is in strong support of SB 504, SD 1 and asks that it be passed out of committee.

On February 24, 2009, ASUH unanimously passed resolution 05-09 in strong support of SB 504, SD 1. Some highlights of the resolution include:

“WHEREAS, that the 96th ASUH have established Sustainability as one of their primary goals; and,

WHEREAS, through the establishment of the Sustainable Saunders program, the University of Hawaii at Manoa has saved over \$100,000; and,

WHEREAS, the various internships provided by the University of Hawai'i have allowed for countless opportunities for students and helped the community concurrently and that without interns, the \$100,000 in savings may have not even been possible; and,

WHEREAS, by establishing a new internship to focus and promote sustainability, the University of Hawai'i at Manoa will promote a greener campus, implement and research various projects regarding sustainability, and ultimately save the University of Hawai'i a great deal of money on energy costs;”

There are few educational experiences more rewarding than internships, and with this opportunity the students at Manoa will be opened up to knowledge and skills that are not found in lecture halls. This internship will benefit the students, the campus, the community, and the state, and so we respectfully urge you to pass SB 504, SD1. Again, thank you for the opportunity to testify.

Matt Prellberg
Chairperson of External Affairs
Associated Students of the University of Hawai'i at Manoa
prellber@hawaii.edu
(808) 956-4822

From: Ivory K McClintock [ivorym@hawaii.edu]
Sent: Saturday, March 21, 2009 5:10 PM
To: HEDtestimony
Subject: Testimony for Bill SB 504 SD2

Testimony of Ivory Kealani McClintock

Student at University of Hawai'i at Manoa

247 S. Kalaheo Ave. Kailua, HI 96734

Tel: 808-652-9564

E-mail: ivorym@hawaii.edu

In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Before the

HIGHER EDUCATION COMMITTEE

Tuesday, March 24, 2009

Good afternoon Chair Representative Jerry Chang, Vice-chair Representative Mark Nakashima and Committee Members,

My name is Ivory McClintock and I am a student at the University of Hawai'i at Manoa and member of Sustainable Saunders.

SB504 SD2 provides for an appropriate of \$207,000 for fiscal year 2009-2010 and the same amount for fiscal year 2010-2011, to establish a sustainability internship program at the University of Hawai'i of Manoa (UHM). **I support** enactment of SB504 SD2.

The reason why I strongly support this bill is because I am a Political Science Major at UHM and hope for more opportunities in sustainable living and policies. I want to be a part of this internship program that will train us to live sustainable and be able to have the skills that we need to go into the communities and apply energy efficiency audits to companies, research alternative energies, implement community gardens and diversifying our economy through these fields. I see this internship as a bridge into the community from the university and have seen great interest in moving towards green causes. I think it is extremely important that those of us that grew up here are able to learn the skills that we need here in Hawai'i to continue making it a better place.

The State's investment of \$207,000 for the program for the first year 2009-2010 and the same for fiscal year 2010-2011 would be returned a minimum of four-fold with \$2million in energy savings at UHM as well as savings at DOE schools and the creation of a green workforce.

The goals of the sustainability internship program are to:

- create green jobs in Hawaii's fastest growing sectors of the economy
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The proposed sustainability internship program would:

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- o Gain experience and be able to work in a field that they are interested instead of part-time jobs unrelated to professional pursuits or academic life.
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The state of Hawai'i

- Creates an experienced, educated workforce for growing economic sectors as well as affordable entry-level positions in sustainability.
- Gives employers opportunities to pilot positions and candidates
- Helps retain Hawai'i's best and most dedicated students

Thank you so much for providing this opportunity to testify.

Testimony of SHANAH TREVENNA
Student Sustainability Coordinator, UHM Sustainable Saunders
tel: 808-772-1874 e-mail: trevenna@hawaii.edu

In support of Bill SB504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Before the

HIGHER EDUCATION COMMITTEE

Tuesday, March 24, 2009

Good morning Chair Representative Jerry Chang, Vice-chair Representative Mark Nakashima and Committee Members,

I am testifying in support of Bill SB504 SD2.

My name is Shanah Trevenna and I am the Student Sustainability Coordinator of Sustainable Saunders, an initiative at the University of Hawaii at Manoa to evolve Saunders Hall into a model of sustainability for the campus and beyond. Previous to this role I have worked as a mechanical engineer for various companies in Canada. In addition to my engineering work at IBM, I worked in their internship program, first as an intern for 16 months, and then as a coordinator. I interviewed students throughout the country for intern positions and matched them with opportunities and served as advisor and mentor.

In my current role it is inspiring to see students at UHM find their unique talents and passion within the Sustainable Saunders program. Students tell me that they thought they had to go to the mainland to experience this type of culture and to gain valuable experience. Many have decided to stay in Hawaii as a result. I also often speak at high schools and when I ask which students will stay in Hawaii after they graduate, no one raises their hand. When asked why, they always state that there is no opportunity here. This program would provide accessible, meaningful, well paying career paths for students in Hawaii. All internships which will be piloted this year including with the Gas Company, the Board of Water Supply, the Coast Guard and Electricians Inc. did not exist before we created the positions with the sponsors. And many more employers have expressed interest. Employers are eager to participate because they can pilot positions and candidates in a low risk, low cost, short term manner as well as gain from our expertise in identifying significant savings. Our program is very

unique because it builds on the dynamic culture of Sustainable Saunders which has proven successful in engaging, training and retaining generation Y students. While efforts are being made on UHM's campus for energy savings, none offer this engagement nor the creation and access to green careers. This program would complement all programs currently in place at UHM providing additional helping hands for the admirable energy goals of the administration.

In my role I also receive letters Statewide asking for help in finding energy savings, especially from the DOE. This excerpt is an example:

"I am wondering if your group that did an environmental impact study of a building at UH has a business doing this type of thing? My son's school is facing financial problems and they may have to let go of some teachers. If you have a business doing this I would like to refer his principal to you for a consultation."

This program would train DOE students to do energy audits of their schools to find energy savings. We are piloting this portion of the program at Roosevelt High School with great success. We launched the program by presenting our culture and successes at UHM, which inspired them that they could do it too. Then during our visits we assist the students on sustainable policy and projects. They also write us often for guidance, as well as connections to professional advice and services from the community.

In June of 2008 I presented at Harvard University to Sustainability Coordinators from across the country. The step-by-step explanation of our program received top honors and invitations to present around the country. Harvard has invited me to present again this summer as a keynote speaker at their Sustainability Institute. I will also be speaking at the University of Delaware as their Earth Week keynote speaker. UH could be the focus of the nation for sustainability which would gain us credibility and attract federal and private financial support.

With a flagship sustainability program centered around internship opportunities and green career paths, UH would attract dedicated students since a recent survey shows U.S. students are twice as likely to choose a school based on sustainability compared to just three years ago.ⁱ The same study shows that there has been a tenfold increase between 1998 and 2007 in students taking the Advanced Placement class and exam in Environmental Science. According to The College Board, just 456 high schools offered this AP course in 1998 compared to 2,501 high schools in 2007, placing it in the same ballpark as Economics and Computer Science.ⁱⁱ A 2006 study by the University of California of 263,710 students nationwide showed that an all-time high number of new freshmen--83.2 percent--volunteered during their final year of high school with over 70% volunteering weekly.ⁱⁱⁱ Dr. Carol Schneider, president of the Association of American Colleges and Universities says, "these new data should encourage educators to redouble their efforts to create new connections between academic study and challenges in larger society."^{iv}

Recognizing the importance of sustainability in attracting new sources of funding, as well as growing existing funding, UH Foundation and the Alumni Association have formed a committee to build a new green platform for fundraising. Here are some examples of campus funding specifically for sustainability related endeavors:

- Over \$22 million - Carnegie Mellon University - The Heinz Endowments
- \$15 million – Arizona State University – private donor
- \$10 million - Cornell – two private pledges
- \$2 million - University of California Berkley - Dow Chemical Co. Foundation
- \$7 million - Ithica College for Sustainable Business - Resident Dorothy Park
- \$1 million - Sustainable Business Program at - Steelcase Foundation
- \$200,000 - SLIM (Sustainable Living Institute of Maui at MCC) - Case Foundation and Cole Family Foundation

UH Foundation currently receives less than 14% of its funding from the private sector, which could be greatly increased. Hawaii's fastest growing sector of the economy is Renewable Energy growing four times faster than the State's average. Local companies are looking for credible testing facilities and research labs to partner with. This is also happening nationally. For example, the TUV Rheinland Group teamed up with Arizona State University to launch a center for global leadership in state-of-the-art solar testing and certification. Hawaii is uniquely positioned to capitalize on these types of partnerships on the national and global scale due to its abundance in renewable energy, the Governor's Clean Energy Initiative and the Department of Energy's positioning of Hawaii as the nation's focus for renewable energy.

The new federal stimulus package also includes nearly \$80 billion for sustainability efforts. The SSIP would be considered a 'shovel-ready' project and could directly attract the following funds outline in the stimulus package:

- \$2.5 billion - Conduct energy efficiency and renewable energy research
- \$2.4 billion - Energy conservation bonds to finance state and local government projects
- \$6.3 billion - Provide grants to cities, counties and states to increase energy efficiency
- \$6.0 billion - additional financing for Innovative Energy Loan Guarantee program
- \$4.5 billion - Increase energy efficiency in federal buildings
- \$4.2 billion - Make military facilities more energy efficient
- \$500 million - Train workers for careers in energy efficiency and renewable energy fields

One of the eight goals for the new President of the UH system is to cultivate the University as a model and world leader in sustainable research, practices and education. This is necessary since UH currently does not rank well nationally for

sustainability. In a 2008 National Association of College and University Business Officers assessment of the top 300 U.S. and Canadian universities, UHM scored a 'C' sustainability rating.^v

Here are some key trends identified in the study, which UH is currently not participating in:

- The number of schools with full-time sustainability staff positions grew from 37 to 66 percent from 2008-2009.
- 44 percent of the schools (up from 30 percent in 2008) have committed to achieving carbon neutrality in the long term by signing the American College and University Presidents Climate Commitment.
- 37 percent purchase at least some renewable energy while 34 percent have onsite wind and/or solar energy production.
- The percentage of schools with current endowment investments in renewable energy funds, or similar investment opportunities, more than doubled from 19 to 46 percent.
- 32% of campuses are styrofoam free, they have convert to bio-degradable food containers
- 55% of campuses sort compost for farmer pick-up

A student internship program would complement these initiatives and provide student power for implementation.

A student program centered around sustainability could also improve UH's low retention rate. The ten top-scoring schools in the 2008 National Association of College and University Business Officers assessment had an average retention rate of 96.4%. Many schools scoring C such as the University of Alabama share UHM's low retention rate of approximately 35%.^{vi} This could be attributed to a lack of opportunity and community on campus. Being a valued community member of an institutionalized Sustainability Program would provide opportunities to meet like-minded students and to stay engaged in campus life.

This program is based on a proven business model that has been financially self-sustaining within two years at Harvard and UC Berkeley. With its guaranteed return on investment to the State of Hawaii, it is a sound economic investment that will enrich education and the work force and create a more secure energy and financial future for Hawaii.

The State's investment of \$207,000 for the Sustainable Saunders Internship Program(SSIP) SB504 for the first year 2009-2010 and the same for fiscal year 2010-2011 would be returned a minimum of four-fold with \$2million in energy savings at UHM. It would also train DOE schools to substantially cut

operating costs through energy efficiency and create a green work force for Hawaii's fastest growing economic sectors such as Energy and Environmental Consulting.

The SSIP program would mentor students to apply proven methods used by the Sustainable Saunders program which has:

- implemented \$146,000 in annual no-cost energy savings in Saunders Hall
- found \$700,000 in annual no-cost energy savings in the Hamilton Library
- shown the potential for similar campus wide savings in that UHM uses 3.2x the amount of energy/square foot as UCSanta Barbara

The program would also create a much needed 'green' work force for Hawaii – the fastest growing sectors of Hawaii's economy is renewable energy: (8.4%, 4 times greater growth than Hawaii's average) as well as environmental consulting at 4.1% growth. The creation of affordable entry-level positions in sustainability would help retain Hawaii's best and most dedicated students.

Thank you so much for your consideration of Bill SB504 SD2. We are passionate about this program and all that it can do for the students, for the university system and for the sustainable future of Hawaii.

Mahalo,
Shanah

Shanah Trevenna BSc.Mech.Eng.
Student Sustainability Coordinator
University of Hawaii at Manoa, Sustainable Saunders
<http://sustainablesaunders.hawaii.edu>
trevenna@hawaii.edu
808-772-1874

ⁱ Greene, Matthew, (2008) "Sustaining Admissions: How prospective students are tracking down institutions' environmental records and using them in the college decision-making process" *University Business*. Also at: <http://www.universitybusiness.com/viewarticle.aspx?articleid=1095>

ⁱⁱ Greene, Matthew, (2008) "Sustaining Admissions: How prospective students are tracking down institutions' environmental records and using them in the college decision-making process" *University Business*. Also at: <http://www.universitybusiness.com/viewarticle.aspx?articleid=1095>

ⁱⁱⁱ Cox, Matthew (2006) "[UCLA study shows more freshmen care about civic responsibility](#)". *Diverse Issues in Higher Education*. Also at: http://findarticles.com/p/articles/mi_m0WMX/is_1_23/ai_n26791164

^{iv} Cox, Matthew (2006) "[UCLA study shows more freshmen care about civic responsibility](#)". *Diverse Issues in Higher Education*. Also at: http://findarticles.com/p/articles/mi_m0WMX/is_1_23/ai_n26791164

^v The *College Sustainability Report Card* is the only independent evaluation of campus and endowment sustainability activities at colleges and universities in the United States and Canada. It is performed by the National Association of College and University Business Officers and researches public records along with multiple surveys to assess 43 indicators to determine a letter grade.
<http://www.greenreportcard.org/report-card-2009/executive-summary/key-findings>

^{vi} <http://www.hawaii.edu/offices/app/opp/msn/msn07brochure.html>

From: Isao Kaji [isaokaji@hawaii.edu]
Sent: Monday, March 23, 2009 1:38 PM
To: HEDtestimony
Subject: SB 504 SD2

Aloha,
Testimony of Isao Harrison Atwater Kaji

UH Manoa Student
2039 Bachelot, Honolulu, HI 96817
Tel: 415-517-7722 E-mail: IsaoKaji@hawaii.edu

In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Before the
HIGHER EDUCATION COMMITTEE

Tuesday, March 24, 2009

Good afternoon Chair Representative Jerry Chang, Vice-chair
Representative Mark Nakashima and Committee Members,

My name is Isao Kaj. I am a student that has worked with Sustainable Saunders for the last two years.

SB504 SD2 provides for an appropriate of \$207,000 for fiscal year
2009-2010 and the same amount for fiscal year 2010-2011, to establish
a sustainability internship program at the University of Hawai'i of
Manoa (UHM). Company/Name supports enactment of SB504 SD2.

Sustainable Saunders works to better the environment, help the community, and ensure that both are done in an economically sustainable way. By
doing this, Saunders is empowering students to lead in research, development, and implementation at the University, and priming them to move into
the workforce. By supporting the internship initiative, we are supporting students to learn in Hawai'i, and stay in Hawai'i.

The State's investment of \$207,000 for the program for the first year
2009-2010 and the same for fiscal year 2010-2011 would be returned a
minimum of four-fold with \$2million in energy savings at UHM as well
as savings at DOE schools and the creation of a green workforce.

The goals of the sustainability internship program are to:

- create green jobs in Hawaii's fastest growing sectors of the economy
- save the University of Hawaii and the State millions of dollars in operating costs each year

-train DOE schools to substantially cut operating costs through energy efficiency

-create opportunities for students to gain empowering experience, supportive connections and access to green careers in Hawaii

The Sustainable Saunders program has:

- found \$146,000 in annual no-cost energy savings in Saunders Hall
- found \$700,000 in annual no-cost energy savings in the Hamilton Library
- shown the potential for similar campus wide savings in that UHM uses 3.2x the amount of energy/sqft as UCSanta Barbara

The proposed sustainability internship program would:

- energy audit UHM's campus with the goal of finding a minimum of \$2million in energy savings campus wide
- help DOE schools to find energy savings in response to requests such as these:

"I am wondering if your group that did an environmental impact study of

a building at UH has a business doing this type of thing? My son's school is facing financial problems and they may have to let go of some teachers. If you have a business doing this I would like to refer his principal to you for a consultation."

- Create a much needed 'green' work force for Hawaii – the fastest growing sectors of Hawaii's economy is renewable energy: (8.4%, 4 times greater growth than Hawaii's average) as well as environmental consulting at 4.1% growth.
- UH could be the focus of the nation for sustainability that would gain them credibility, financial support as well as a higher student retention rate.

The proposed sustainability internship program would benefit:

Students and Youth

- o Gain experience and be able to work in a field that they are interested instead of part-time jobs unrelated to professional pursuits or academic life.
- o Training in sustainable practices/principles that can be used on resume as well as makes connections and networks within the same field.

The UHM Campus

- o Gives national recognition for sustainability
- o Attracts more students that are interested in sustainability
- o The program is based on a proven business model that has been financially self-sustaining within two years at Harvard and UC Berkeley.

The state of Hawai'i

- o Creates an experienced, educated workforce for growing economic sectors as well as affordable entry-level positions in sustainability.
- o Gives employers opportunities to pilot positions and candidates
- o Helps retain Hawaii's best and most dedicated students

Thank you for providing this opportunity to testify.

From: Noel J Kent [noelk@hawaii.edu]
Sent: Monday, March 23, 2009 9:11 AM
To: HEDtestimony
Subject: Testimony on SB504 SD2

As a longtime UH Manoa faculty I find the Sustainable Saunders initiative one of the most valuable we have ever done. It is essential that we reduce our energy costs and output. I am presently using the expertise from Sustainable Saunders in nearby George Hall where we have a project to reduce energy consumption in that building and bring down costs and emissions. Taking the lead from Saunders we are greening our campus one building at a time. SB504 SD2 will provide the resources to enable this experiment to expand. Noel J. Kent Professor Ethnic Studies Department

Testimony of Jeremy Kowalczyk
Free-Electron Laser Group, University of Hawaii
2505 Correa Rd., Honolulu, HI 96822
Tel:808-956-6252 E-mail:jeremymk@hawaii.edu

In support of SB 504 SD2 RELATING TO THE UNIVERSITY OF HAWAII

Before the
HIGHER EDUCATION COMITEE

Tuesday, March 24, 2009

Good afternoon, Chair Representative Jerry Chang, Vice-chair Representative Mark Nakashima and Committee Members.

My name is Jeremy Kowalczyk. I am a research assistant in the Free-Electron Laser Group and the Energy Coordinator for the Sustainable Saunders initiative, both at the University of Hawaii Manoa.

SB504 SD2 provides for an appropriate of \$207,000 for fiscal year 2009-2010 and the same amount for fiscal year 2010-2011, to establish a sustainability internship program at the University of Hawai'i of Manoa (UHM). Jeremy Kowalczyk supports enactment of SB504 SD2.

A sustainability internship program at University of Hawaii at Manoa (UHM) is an essential ingredient in making the university a leader in sustainability, reducing the universities operating budget, and increasing the sustainability of local businesses in Hawaii. In the past year, the Sustainable Saunders initiative at UHM has already managed to save ~\$100,000 annually through elimination of incandescent lights, removal of excess lighting, and night-time shutdowns of the air-conditioning system. Similar programs in Hamilton Library are projected to save ~\$700,000 annually. These are just two of over 50 buildings on campus, so you can see the potential is huge on campus and similar throughout Hawaii. The group has the knowledge and experience to mentor interns in the implementation of such projects both on and off campus.

Not only would the intership program save the University money, but it would also form a symbiotic relationship with the community. Inters would be trained in "green" jobs, readying them for the workforce. A good sustainability rating for the University would draw more students to it. The program will actually become self-sustaining after a couple of years while making the campus and local businesses (those hiring interns) more sustainable.

The State's investment of \$207,000 for the program for the first year 2009-2010 and the same for fiscal year 2010-2011 would be returned a minimum of four-fold with \$2million in energy savings at UHM as well as savings at DOE schools and the creation of a green workforce.

The goals of the sustainability internship program are to:

- create green jobs in Hawaii's fastest growing sectors of the economy
- save the University of Hawaii and the State millions of dollars in operating costs each year
- train DOE schools to substantially cut operating costs through energy efficiency
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Thank you for providing this opportunity to testify.