

Ku 'Aina Pa Schedule – Summer Intensive  
June 9-14, 2013

Sunday June 9: Opening Night Dinner and Talk: A Sense of Place

3:30–5:30 pm            HPA Accommodations Check-In with Donna Mitts at Waiaka House

5:00 pm.                HPA Upper Campus **Energy Lab (E-lab)**  
Cohort Registration  
Pre-assessment: **Jan Ray**

5:30–6:30 p.m.        Opening Dinner - Catered by **Island Thyme**.

6:30–8:00 p.m.        Welcome & Introductions: **Nancy Redfeather**

**Dilafruz Williams Ph.D.** – a perspective on cultivating a strong sense of place.

**Aloha circle** – getting to know you in this place as we create a learning and teaching space.

## Monday, June 10: Cultivating Our Sense of Place in the Living World

Big Ideas	<p><b>Sustainable living is rooted in a deep knowledge of place.</b></p> <p><b>The Real world Is the optimal learning environment.</b></p> <p><b>Fostering Research and Reflection.</b></p> <p><b>We are all interconnected and related.</b></p>
Concepts	<p>i. Principles of Ecology – networks, nests, cycles, flow, development, and equilibrium.</p> <p>ii. Ahupua’a – mauka to makai, ‘aina = that which feeds (a continuum between land and water).</p> <p>iii. Sense of place engages all the other 6 senses, and is a sense on its own.</p> <p>iv. Contextual, indigenous knowledge is crucial.</p>
Skills	<p>i. Recognize and apply ecological principles in design of garden, curriculum, and community.</p> <p>ii. Apply the ahupua’a/mauka to makai knowledge into garden programming and curriculum.</p> <p>iii. Use context and place to teach interdisciplinary garden-based curriculum.</p> <p>iv. Apply sense of place to derive the physical, biological, and cultural needs of the garden.</p>
Readings	<p>1. <i>What is Education For? Six myths about the foundations of modern education, and six new principles to replace them</i>, David Orr</p> <p>2. <i>Place-Based Education: Connecting Classroom and Community</i>, David Sobel</p> <p>3. <i>Framework for schooling for sustainability - Smart by Nature™</i> (Nature Is Our Teacher, Sustainability Is a Community Practice, The Real World Is the Optimal Learning Environment, Sustainable Living Is Rooted in a Deep Knowledge of Place), the Center For Ecoliteracy</p> <p>4. <i>Six Principles of Ecology</i>, Fritjof Capra</p> <p>5. <i>Learning Gardens and Sustainability Education: Bringing Life to Schools and Schools to Life</i>, Dilafruz Williams. Please read Chapters 1, 2, and 4.</p>
Olelo Hawai’i	<i>Wahi Pana</i> (Sense of Place)

### SCHEDULE:

6:30–7:30 am	Breakfast at Waiaka House
8:00 am	Meet at Mala’ai Culinary Garden Protocol 2 minutes of silence in the garden
8:15 am	Ku ‘Aina Pa <i>oli</i> : <b>Kumu Keala Ching</b>

8:45 a.m.	Thinking Like an Ahupua'a – Sense of Place within the Whole: <b>Pomai Bertelman</b>
9:30 – 10:30	Bio-cultural Diversity Activities: <b>Amanda Rieux</b> and <b>Koh Ming Wei</b> Practical garden-based applications on Sense of Place within the Whole; small group discovery activities.
10:30 – 10:45	Break
10:45–11:15	The Rituals and Protocols of the Mala'ai Garden: <b>Amanda Rieux</b> <ul style="list-style-type: none"> <li>• Developing A Rhythm of the Class/of the Day/of the Year</li> <li>• 2 minutes of silence – Why?</li> <li>• The Daily Element of Reflection</li> </ul>
11:15 – 12:30	Kitchen protocol for 15 min (All): <b>Sandy Barr</b> - Guest Chef Two rotations of 30 mins each <ul style="list-style-type: none"> <li>• Bed preparation: <b>Amanda Rieux and Holly Sargeant-Green</b></li> <li>• Tool care and use: <b>Gerry Herbert</b></li> </ul>
12:30 – 1:30 pm	LUNCH at 1:15 PLEASE start clearing up, wash dishes, kokua in the kitchen
1:30 – 2:30 pm	Cultivating Community Partnerships – garden vision, committees, volunteers, financial sustainability: <b>Nancy Redfeather</b> and <b>Amanda Rieux</b> .
2:30 – 4:00	The “Gardenized” Mind - Backwards thinking garden design to support programming and curriculum: <b>Koh Ming Wei</b> Hands-on, small group workshop-style <ul style="list-style-type: none"> <li>○ Weaving in the readings</li> <li>○ Applying the Principles of Ecology and GLOs</li> <li>○ Formalizing what we learned in the morning</li> </ul>
4:00 – 5:00	Reflections – what are they and how? <b>Koh Ming Wei</b> Practice run Assign reflection for homework: <b>Amanda Rieux</b> <i>Dirt! The movie</i>
	DINNER ON YOUR OWN
7:00 pm	<b>DIRT! The Movie</b> at WAIAKA HOUSE

## Tuesday, June 11: The Living Soil – Connections and Relationships

Big Ideas	<p><b>We are all interconnected and related.</b></p> <p><b>The Real world Is the optimal learning environment.</b></p> <p><b>Fostering Research and Reflection.</b></p>
Concepts	<ul style="list-style-type: none"> <li>i. Composting/Worms/other fertility systems.</li> <li>ii. Development of Garden Systems – bed prep, seeding, nursery, etc.</li> <li>iii. Bio-diversity – plants, pollinators, fungi, bacteria, birds, etc.</li> <li>iv. Seasonal Plan for the garden (The Cycle of the Day, Week, Year).</li> </ul>
Skills	<ul style="list-style-type: none"> <li>i. Story-telling</li> <li>ii. Use fertility system to teach science</li> <li>iii. Able to see the garden as a whole system with interconnected parts.</li> <li>iv. Use the Bio-cultural diversity activities, eg. The Soil Food Web to deepen understanding of ecology and systems.</li> </ul>
Readings	<ol style="list-style-type: none"> <li>1. <i>Learning Gardens and Sustainability Education</i>, Dilafruz Williams: Chapter 3</li> <li>2. <i>Gardening with Microbes: Putting Nature Back in Control</i></li> <li>3. <i>The Living Soil</i>, Tad Hussey</li> <li>4. <i>The Soil Biology Primer</i> - NRCS: Elaine R. Ingham, Oregon State University, The Soil Food Web Resources. Read the Soil Food Web Chapter. The other chapters are fantastic references.</li> </ol>
Olelo Hawai'i	<p><i>Ka Pilina</i> (the relationship that is cared for)</p> <p><i>E malama ke 'aina, e malama ka 'aina ia 'oe</i> (Take care of the land and the land will care for you).</p>

### SCHEDULE: (Bring Your bag of Soil to class)

6:30–7:30 am	Breakfast at Waiaka House
8:00 am	Meet at Mala'ai Culinary Garden Protocol 2 minutes of silence  Reflections on "Dirt the Movie" – "Wow Wall Chart" - Chapter 3 Morning Story – Turtle Island: <b>Ming Wei</b>
8:30 – 10:00	Living Soils – from the ground to the plant: <b>Jonathan Deenik</b>
10:00 – 10:15	Break
10:15–11:00	Aerobic Composting: The Heart & Soul of the Garden - <b>Amanda</b>

11:00 – 12:30	<p>Three rotations of 30 mins each</p> <ul style="list-style-type: none"> <li>• Compost teas: <b>Bobby Grimes</b></li> <li>• Those Wonderful Worms: <b>Donna Mitts</b></li> <li>• Bokashi....What? <b>Noah Dodd</b></li> </ul>
12:30 – 1:30 pm	<p>LUNCH</p> <p>at 1:15 PLEASE start clearing up, wash dishes, kookua in the kitchen</p>
1:30 – 3:30	<p>From Lava to Lono: The Soils of Hawai'i Island <b>Noa Lincoln</b> (virtual presentation)</p> <p>Healthy Soil Healthy Communities: Investigations with Soil <b>Nancy</b></p> <p>Living Soil Curriculum: For Middle &amp; High School <b>Megan Dehning</b></p>
3:30 – 5:00	<p>Coaching and small group work: <b>Amanda, Nancy, Ming Wei, Linda Colwell, Sarah Sullivan</b></p> <p>Based on what was begun on Monday -</p> <ul style="list-style-type: none"> <li>• Use the time to develop infrastructure of your school garden - soil, composting, systems of fertility, irrigation, etc. You may want to create a drawing.</li> <li>• Develop a garden materials list, etc.</li> <li>• Use the time to think about your yearly plan – Big Ideas</li> </ul>
5:00 – 5:30	<p>Reflection for the Evening: <b>Amanda</b></p> <p><i>Thoughts on Humus and Ha'a Ha'a</i></p> <p>Closing circle</p> <p>DINNER ON YOUR OWN.</p> <p><b>OPTIONAL</b> evening program at Waiaka House</p>
7:30 pm	<p>An Evening Talk with <b>Jerry Konanui</b>, Kalo Farmer and his Film <i>Malama Haloa</i></p>

## Wednesday, June 12: Cultivating Hawaiian Agricultural Knowledge

Big Ideas	<p><b>Sustainable living is rooted in a deep knowledge of place.</b></p> <p><b>The Real world Is the optimal learning environment.</b></p> <p><b>Fostering research and reflection.</b></p>
Concepts	<p>I. Ahupua'a – mauka to makai, 'aina = that which feeds (a continuum between land and water).</p> <p>II. Sense of place engages all the other 6 senses, and is a sense on its own.</p> <p>III. Contextual, indigenous knowledge is crucial.</p>
Skills	<p>i. Story-telling</p> <p>ii. Recognize and apply ecological principles in design of garden, curriculum, and community.</p> <p>iii. Apply the ahupua'a/mauka to makai knowledge into garden programming and curriculum.</p> <p>iv. Use context and place to teach interdisciplinary garden-based curriculum.</p> <p>v. Apply sense of place to derive the physical, biological, and cultural needs of the garden.</p>
Readings	<p>1. <i>Learning Gardens and Sustainability Education</i>, Dilafruz Williams: Chapter 9</p>
Olelo Hawai'i	<p>'Ai Nana (food first)</p> <p>Ka 'Ai Hawai'i (the foods of Hawai'i)</p>

### SCHEDULE:

6:30–7:30 am	Breakfast at Waiaka House
8:00 am	<p>Meet at Mala'ai Culinary Garden</p> <p>Protocol</p> <p>2 minutes of silence</p> <p>Making Lau Lau: <b>Chantal Chung</b> and <b>Kamuela Naihe</b></p>
9:00 am	The Hawaiian Moon Cycles in Song: <b>Hayley Blondin</b>
9:30	Story of <i>Haloa ke kalo</i> : <b>Jerry Konanui</b>
9:45 – 2:30	<p>Visit each station for a short overview – spend the rest of the morning preparing, cooking, and talking story about Hawaiian Food Crops.</p> <p><b>Jerry Konanui</b> and Kamuela Naihe – <i>Taro</i></p> <p><b>Kamuela Naihe</b> - <i>Ulu</i></p> <p><b>Chris Carter</b> – <i>Mai'a</i></p>

**Chantal Chung** - Uala  
**Geoff Rauch** and Lyn Howe – Ni'u and Ko  
**Amanda** – *Casava*  
**Nancy** - *Uhi*

2:30 – 4:00

Pa'ina.  
*He moku he wa'a, he wa'a he moku:*  
**Pomai Bertleman, Chadd Paison, and Kumu Pua Case**

4:00 – 4:30

Assign reflection for homework: **Ming Wei**  
*How is Nature our best Teacher?*  
Closing circle

Please *kokua* to clean up.

DINNER ON YOUR OWN.

No evening program.

## Thursday, June 13: Garden **and** Standards-Based Curriculum

Big Ideas	<b>The Real world Is the optimal learning environment. Fostering Research and Reflection. Teacher Tools aid learning.</b>
Concepts	<ul style="list-style-type: none"> <li>i. Seasonal Plan Template (The Cycle of the Day, Week, Year)</li> <li>ii. Lesson Plan Template</li> <li>iii. Classroom Management</li> <li>iv. Audits, Surveys, Mapping</li> <li>v. Assessment and Evaluation</li> <li>vi. Technology</li> <li>vii. Policy – Wellness Committee, etc.</li> <li>viii. Storytelling</li> <li>ix. Songs/Games/short Activities</li> <li>x. Reflection</li> </ul>
Skills	Use and adapt the tools for individual context
Readings	<ul style="list-style-type: none"> <li>1. <i>Pedagogy of Food – developing the interdisciplinary standards-based school garden curriculum</i>, Koh Ming Wei. Skim read, pgs. 18 – 23 is the curriculum sample</li> <li>2. <i>The New Facts of Life</i>, Fritjof Capra, Center for Ecoliteracy</li> <li>3. <i>Linking Gardens to School Curriculum</i>, California School Garden Network - An Essay</li> </ul>
Olelo Hawai'i	<i>Ho'o Hou ke Ola</i> (return again the life)

### SCHEDULE:

6:30–7:30 am	Breakfast at Waiaka House
8:00 am	<p>Meet at ENERGY LAB, HPA Protocol and singing Contemplation exercise. Share reflections. Morning Story:</p> <p>Gallery walk explanation: <b>Ming Wei</b></p>
8:30 – 10:00	<p>Curriculum integration – garden-based <b>and</b> standards based: <b>Ming Wei</b> and <b>Amanda</b> There are many ways to approach linking learning gardens to curriculum. We will experience using whole-systems thinking to align garden tasks to curriculum.</p>
10:00 – 10:15	Break
10:15–12:30	A Simple Process for Creating Place-Based Lessons for School Garden Education: <b>Linda Colwell</b> and <b>Sarah Sullivan</b>



School garden lessons are often directed by core standards, subjects, goals, objectives, and time. In the garden, we can consider what is seasonal, inspiring, changing, alive, ready to eat, or student directed every day. This workshop will describe the unique methods and criteria applied in developing the *eat.think.grow* curriculum and provide the tools for creating your own place-based school garden lessons that meet core standards.

12:30 – 1:30 pm

LUNCH

at 1:15 PLEASE start clearing up, wash dishes, kokua in the kitchen

1:30 – 2:30

Basic technology to help us communicate efficiently: **Jan Ray**

2:30 – 2:45

Evening Reflection: **Amanda**

2:45 – 4:15

ART and DESIGN in the Garden – please choose ONE:

- Detailed Sketching and painting: **Jane Taylor**, HPA Middle School Art Teacher
- Elementary School Art with \_\_\_\_\_
- Designing and building tool sheds, outdoor classrooms, etc, what to consider: **Bobby Grimes**

Evening program at Waiaka House.

6:00 pm

Potluck and party.

Friday, June 14: Garden **and** Standards-Based Curriculum cont. and Next Steps...

Big Ideas	<b>The Real world Is the optimal learning environment. Fostering Research and Reflection. Teacher Tools aid learning.</b>
Concepts	<ul style="list-style-type: none"> <li>i. Seasonal Plan Template (The Cycle of the Day, Week, Year)</li> <li>ii. Lesson Plan Template</li> <li>iii. Classroom Management</li> <li>iv. Audits, Surveys, Mapping</li> <li>v. Assessment and Evaluation</li> <li>vi. Technology</li> <li>vii. Policy – Wellness Committee, etc.</li> <li>viii. Storytelling</li> <li>ix. Songs/Games/short Activities</li> <li>x. Reflection</li> </ul>
Skills	Use and adapt the tools for individual context
Readings	<ul style="list-style-type: none"> <li>1. <i>Teacher As Researcher Taking Action Research To Task</i>, Beverly Johnson (from Teaching Today)</li> <li>2. <i>Advancing STEM 2020</i></li> </ul>
Olelo Hawai'i	<i>E a'o i na kaiapuni a'o apau</i> (Learn in all environments)

**SCHEDULE:**

6:30–8:00 am	<p>Breakfast at Waiaka House Pack and clean up Check out of all dorms &amp; Waiaka House</p>
8:30 am	<p>Mala'ai Culinary Garden Protocol and singing 2 minutes of silence Share reflections. Morning Story:</p>
9:00 – 11:00	<p>“Putting the “E” in STEM: Creating Opportunities for Inquiry and Engineering” – Bess Jennings State STEM Resource Teacher</p>
11:00 – 11:45	<p>Gallery Walk of lessons and ideas - ALL: <b>Ming Wei</b> facilitates</p>
11:45 – 12:15	<p>Post assessment, surveys, questionnaires, and reflections: <b>Jan Ray</b></p>
12:15 – 1:15 pm	<p>LUNCH at 1:00 PLEASE start clearing up, wash dishes, kokua in the kitchen</p>

1:15 – 2:00 Divide into teams - clean/pack away Mala'ai: **Amanda** facilitates

2:00 – 2:30 Year to come: **Nancy** and **Ming Wei**

- Notebook
- Timeline and expectations
- Checklist

2:30 – 4:00 Final closing circle - All

**PAU – have a safe trip home.**