

DRY LITTER TECHNOLOGY SUMMIT

February 22-25, 2011, American Samoa

Production of an organic soil amendment, through an integrated composting system, is the key component of the dry litter technology.



Summit and Educational Workshop

American Samoa has been the leader in the deployment of the dry litter technology for small-scale piggeries, due to commitments, innovation and resources from key partnerships. The “revolution” is led by the American Samoa Community College (ASCC), American Samoa Environmental Protection Agency, USDA Natural Resources Conservation Service, and the American Samoa Soil and Water Conservation District. In collaboration with these partners, University of Hawaii at Manoa with funding support

from the National and Regional Water Programs, is organizing a Dry Litter Technology Summit and Educational Workshop planned for February 22 - 25, 2011. The week long event will include visits to the ASCC Land Grant piggery nutrient management demonstrations, field visits to several EQIP-funded dry litter installations, and round table discussions addressing the challenges and opportunities of proper nutrient management systems for deployment in the U.S. Protectorates in the Pacific and Caribbean. The activities will

culminate in an educational workshop for piggery operators.

The summit is for technical assistance staff from NRCS, government agencies and the extension service to view, assess and provide input related to alternative nutrient management technologies for the development of a producer guide for appropriate waste management systems for island communities.

The workshop is geared for piggery owners, operators, local government and village leaders.

- Glen K. Fukumoto

Summit Workplan

Purpose: To gather information and enter into discussions with agency partners to develop a guidance document for appropriate nutrient management technologies for small-scale piggery operations in island communities. (U.S. Protectorates and beyond)

February 17, Thursday: Advance team arrival.

February 18, Friday:

Preliminary workshop & logistics review with B. Rippy, A. Peters, J. Womack, J. Wimberly, J. Deenik and G. Fukumoto, L. Castro
 Visit ASCC demonstration site and EQIP piggery, prepare site factsheets

February 19-20, Saturday & Sunday:

February 21, Monday:

Meet with B. Rippy and J. Womack at Pago Plaza.
 Assessment of EQIP dry litter piggery, soil and compost sampling, preliminary evaluation of soil test kits (J. Deenik)
 Evening arrival of Summit participants and Workshop speakers.

February 22, Tuesday: (Time & Location: 9:00 am, American Samoa Community College)

Convene summit participants, introductions, and discuss overview of work plan, purpose and tasks (G. Fukumoto)
 Visit demonstration site at ASCC (A. Peters and B. Rippy)
 Soil sampling and test kit demonstration (J. Deenik)
 Visit EQIP funded (established, new, under construction) dry litter piggery sites (B. Rippy and J. Womack)

February 23, Wednesday: (Time & Location: 9:00 am, A.S. Community College)

Composting roundtable discussion (J. Wimberly)
 Soil properties, diversity and management (J. Deenik)
 Leptospirosis research update (M. Walker)
 Water quality monitoring in American Samoa (P. Wiles)
 *Facilitated discussions (site visits, needs, barriers) (L. Castro)
 Final workshop preparations

February 24, Thursday:

Workshop and Field Day (see page 4), Registration begins at 8:00 am
 *After workshop, convene summit participants, facilitated discussions.
 NRCS participants departure

February 25, Friday:

Site Assessment of new facilities, producer and agency follow up.

February 26-27, Saturday & Sunday:

February 28, Monday:

Wrap up meeting with planning coordinators
 Depart PPG

* All Summit participant request to attend these important discussions.

Summit Participants

Program Coordinators:

Glen K. Fukumoto, University of Hawaii
Brian Rippy, American Samoa Environmental Protection Agency
John Womack, USDA Natural Resources Conservation Service
Alfred Peters, American Samoa Community College
Larry Hirata, American Samoa Community College

American Samoa Key Personnel:

Dr. Phil Wiles, American Samoa Environmental Protection Agency
Brian Peck, USDA Resource Conservation and Development Program
Kuka Matavao, American Samoa Environmental Protection Agency
Sarah Tanuvasa, USDA Natural Resources Conservation Service
Mila Apisa, USDA Natural Resources Conservation Service
Christianera Tuitele, American Samoa Environmental Protection Agency
Faauuga Laititi, American Samoa Environmental Protection Agency

Special Invited Guests:

Jim Wimberly, Ag/Energy Enterprises, LLC
Dr. Jonathan Deenik, University of Hawaii

Southern State and Pacific Islands Regional Water Program:

Lawrence Duponcheel, Northern Marianas College
Dr. Mark Walker, University of Nevada-Reno
Luisa Castro, University of Hawaii
Jina David, College of the Marshall Islands
Leilanie Rechelluul, Palau Community College

NRCS Pacific Islands Area

Joseph Tuquero, Guam
Paul Lake, FSM-Pohnpei
Susan Kubo, Hawaii-Aiea
Ted McArthur, Hawaii-State Office
Adam Reed, Hawaii-State Office

Facilitated Discussion Topics and Presentations:

Piggery enforcement process and operator education
Piggery planning process
Composting challenges and Research opportunities
Building material availability
Compost analyses and beneficial utilization
Soil sampling, analyses and crop production
Hog production issues, others

Workshop & Field Day Agenda

Date: February 24, 2011

Time: Starting at 8:30 am

Place: ACSS, Land Grant Conference Room

- 8:00 am Registration
- 8:30 am Welcome and Opening Remarks (Master of Ceremonies: Alfred Peters)
- Dr. Dan Aga, Director, Community & Natural Resources Program, ASCC
 Fanuatele Dr. Toa'fa Valaga'e, Director of AS EPA
 Honorable Governor Togiola Tulafono, Territory of American Samoa
- 9:00 am Overview AS EPA Piggery Compliance Program, Christianera Tuitele
- 9:30 am Best Management Practices:
 Review of Initial Efforts in A.S. & Pigs in Paradise: Jim Wimberly
 Ihaka System: Kevin Ihaka
 Dry Litter Technology: Glen Fukumoto
- 10:30 am Break
- 10:45 am Overview of EQIP Program (John Womack)
- 10:00 am Panel of Dry Litter Operators (Luisa Castro - Moderator)
 Asifoa Sosene, Leo Semaia, Mapasone Laulu,
 Sa Iosia, Peter Tinitali
- 12:00 noon Lunch, Sponsored by American Samoa Environmental Protection Agency
 Field Day -View ASCC Nutrient Management and Compost Systems
- 1:00 pm Water Quality Impacts
 AS stream monitoring program (Dr. Phil Wiles)
 Leptospirosis research update (Dr. Mark Walker)
- 2:00 pm Composting 101 Discussion (Jim Wimberly)
- 2:30 pm Soils and Use of Compost in Cropping System (Dr. Jonathan Deenik)
- 3:00 pm Animal Husbandry in Dry Litter Systems (Glen Fukumoto)
- 3:30 pm Regional Piggery Waste Management Update: (Lawrence Duponcheel)
- 4:00 pm Discussion, Evaluation & Closing Remarks (Brian Rippy, Jim Wimberly)
- 4:30 pm Adjourn
 Optional: View ASCC Nutrient Management and Compost Systems

50 persons maximum

Planning Logistics

Airlines:

- Passports are required for entry into American Samoa.
- Hawaiian Airlines is the only U.S. carrier that provides service to Pago Pago, American Samoa. There are two flights weekly, departing Honolulu on Thursday and Monday.
 - Honolulu (HNL) to American Samoa (PPG), Monday and Thursday
 - HA #465, depart 5:00 pm, arrive 9:40 pm

 - American Samoa (PPG) to Honolulu (HNL), Monday and Thursday
 - HA #466, departs 11:20 pm, arrive 5:40 am (next day)
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- Travelers from the Western Pacific who fly via Guam, will need to overnight in Hawaii.
 - Guam (GUM) to Honolulu (HNL)
 - CO #2, depart 6:40 am, arrive 5:50 pm, (day before)

 - Honolulu (HNL) to Guam (HNL)
 - CO #1, depart 3:20 pm, arrive 7:05 pm (next day)

Lodging:

- Tradewinds Hotel, typical American style hotel. Summit Headquarters hotel.
- Tessarrea Vaitogi Inn. Very low key, quiet location, internet in the lobby.
- Pago Airport Inn. Small inn located in quiet residential area near airport.
- Moana O Sina. Small oceanside inn.

Car Rental:

- Avis Car Rental
- Friendly Car Rental
- Tradewinds Hotel

Food:

- There are many restaurants on the island, several modern grocery stores and many mom & pop stores around.
- Fast foods include McDonald's, KFC, Pizza Hut and Carl's Jr.
- Recommended local restaurants: Sooks (Sushi), Sadie Thompsons, Sadie's by the Sea, Koko Bean, and Manuia.

Weather:

- Humid tropics, high 80's to low 90's. Expect some rainy days.

Time Zone:

- 1 hour behind Hawaii Standard Time

Summit Registration Form

Dry Litter Technology Summit and Workshop
February 22-25, 2011
Territory of American Samoa

Name: _____

Affiliation: _____

Address: _____

City, State, Zip: _____

Email address: _____

Phone: _____

Please return registration form by January 27, 2011

Mail to: Glen Fukumoto
UH Cooperative Extension Service
79-7381 Mamalahoa Hwy
Kealahou, HI 96750-7911

Fax to: (808) 322-4895

Email to: gfukumot@hawaii.edu

Workshop Registration Form

Dry Litter Technology Workshop
February 24, 2011
American Samoa Community College
Territory of American Samoa

Name: _____

Affiliation: _____

Address: _____

City, State, Zip: _____

Email address: _____

Phone: _____

Lunch is sponsored by the American Samoa Environmental Protection Agency. Fa'afetai to Director Fanuatele Dr. To'afa Valaga'e for his support of the program.

Please return registration form by February 1, 2011

Mail to: Glen Fukumoto
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