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IRETA

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USP at Alafua celebrates students achievements





The University of the South Pacific Alafua Campus in Samoa ended its 2012 academic year with 91 students graduating from various disciplines including agriculture, arts, commerce and science.

The delayed graduation was a happy event that also gave the graduands and their families a good reason to celebrate after Cyclone Evan. The graduation was cancelled from its original date on the 14th December 2012 and moved to the 17th January 2013 because of Cyclone Evan.

USP Chancellor, Ulu-o-Tokelau, His Excellency Aliki Faipule Kelihiano Kalolo conferred degrees and awarded diplomas and certificates while Pro-Chancellor and Chair of the University Council Mr. Ikbal Jannif officiated the graduation ceremony which was also attended by the Acting Vice-Chancellor, Dr Esther Williams who delivered the graduation address.

Some SAFT graduates that graduated in Samoa

Master of Agriculture

Ramona Sulifoa

Postgraduate Diploma in Agriculture

Hikaione Loumoli Binesh Prasad Makilua Puniani Ratu Toloi Vasuidreketi

Bachelor of Agriculture

Sateki Fangupo Rennier Gadabu Viliame Lockwood Matio Lonalona

Diploma in Tropical Agriculture

Phillip Reti Sama Sapakuka

Postgraduate Diploma in Agriculture Economics Dinesh Kodituwakku

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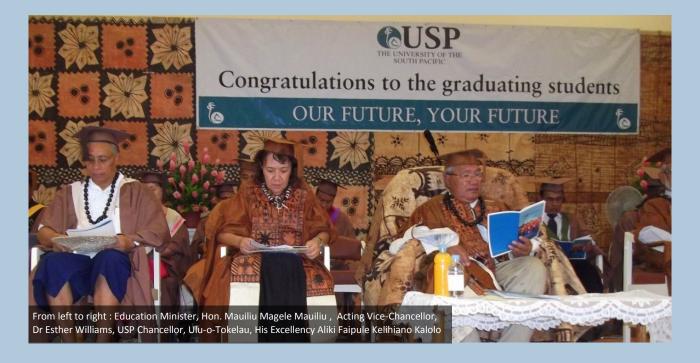
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Acting VC Congratulates USP graduands in Samoa



Graduates, we have often said that your success today is not the end but the start of another journey. You should all be proud of your achievements and I join your families, your governments, your sponsors in congratulating you. I urge you to be good ambassadors of USP and serve your communities and countries well."

"A hearty congratulations to you all. You have all worked hard and now reaping the benefits. It is pleasing to see a number of our alumni returning to do postgraduate studies. There is no end to

learning. Lifelong learning is important and key to our development as Pacific peoples."

"With your certificate, qualifications and your knowledge, I am sure that you are ready to go out and serve your country and community, and the region and also the world. Use wisely the knowledge gained to "change the world."

"Congratulations to you all, and I wish you well. The future is what you make of it and much is expected of you. Faafetai lava."





Strengthening Floriculture Development in Tonga

Fihinoa Fakaulu





the month of November 2012.

to find some way to help women.

purpose of this project is to find some way to help 2019". women."

this they will perform the project successfully", Mrs. Vava'u. Fielakepa added.

Pacific Mini-Game to be held here in 2019.

Tonga has reached a state of development through Mrs. Fielakepa elaborated more on the three floriculture, which was done in four day training in purposes.." the first purpose is to give women an opportunity to do something in a very simple way to According to, Chair of the Flower Girl Association in gain money, not only that but when women grow Tonga, Tuna Fielakepa, the purpose of this Project is flowers, it will help to beautify the environment and help in advertising our country in tourism and lastly "In the launching of the training, Dr. Vili Fuavao, this is part of the preparation for the Pacific FAO Subregional Representative mentioned that the Mini-games which will be held here in Tonga in

Director, Institute for Research, Extension and "The reason behind this is because women are Training in Agriculture (IRETA), of the University of identified as the backbone of community the South Pacific, Alafua Campus Apia, Samoa, development, if we look at development in building Mohammed Umar with Dr Sagawa from Hawaii or in water, women are the first one to participate, were here in Tonga to conduct the training, which so it is accepted that since they are the backbone to started at Tongatapu and ended in the island of

Meanwhile according to Mr. Umar, while here in Three purposes were put out while the training was Tonga he said that they spent some time looking at on track, first is that this project is for commercial the range of ornamentals grown and traded in purpose, second is environmental purpose and third Tonga and general interest among growers to get is part of the preparation of the Kingdom for the involved in floriculture production. We found through our consultations that within government and the community the interest was very high.

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Strengthening Floriculture Development in Tonga

Continued from page 3





tired teachers and principals and a lot of others who as, budgeting their money and saving." are highly educated women, and that really helped, The Flower Girl Committee has more than a 100 messages that will make this project sustainable," training. Mr. Umar added.

try and make the project succeed.

Fielakepa added

Meanwhile, Mrs. Fielakepa said that one of their ies. working plans for the future is to train women on The Project was funded by the Food and Agriculture how to run a business.

ticipants on how to run business, because in that

"It was wonderful, when I found out that many eld- way they will learn how to make their business suserly ladies that participated in the training were re-tainable, by learning simple things in business such

because they are the ones who will take the lead, members as of now. For the Tongatapu training motivate others, stand up and reinforce the kind of more than 140, largely women, turned up for the

The Tonga Floriculture project will have 6,000 an-The Flower Girl Association, is looking forward to thurium plants and 7,000 orchids both dendrobium perform their immediate and first goal which is to and phalaenopsis. The two sites chosen for this project are Tongatapu and Vava'u. In this training, 140 "One of our immediate mission and goal is to make largely women participated and planted over 4,000 sure that the plants that were distributed are well anthurium and 800 orchids. In Vavau, close to 40 looked after, this is through meetings so that we can again largely women were trained and they planted see what problems do the members of the associa- around 2,000 anthuriums and 200 orchids. As part tion are faced with so that we can help out," Mrs. of this project all participants will be supplied with plants once they have established their own nurser-

Organization or the FAO, with a joint partnership "Since commercial purpose is one key purpose of between the FAO and the Government of Tonga this project we are looking forward to training par- through the Ministry of Agriculture, Food, Forestry and Fisheries.





Agriculture Advisor to USP Vice Chancellor made an Officer of the New Zealand Order of Merit



Emeritus Professor Roger Field Advisor to the USP in developing Agriculture in the Alafua Campus by New Zealand Order of Merit for services to objectives is to lift the profile of the Alafua campus. education and land-based industries.

Previously as the Vice-Chancellor of Lincoln Univer- agriculture in the South Pacific as it is very vital to sity Emeritus Professor Roger Field promoted the local economies and future threats of climate agriculture and the land-based industries of New change. This will also be part of his work as the Zealand.

achieve so much.

"I've been very fortunate to lead a strong team of people at the Lincoln University."

"I recognise without the support from a lot of people that there would be no awards. There needs to be some acknowledgement that you cannot do all these things by yourself."

the land-based industries."

As the Advisor to the USP Vice Chancellor he assists

Vice Chancellor who also dedicated 41 years to providing assistance and advice in the many differ-Lincoln University has been made an Officer of the ent areas such as funding and others. One of the

> He emphasised the importance of the recognition of Advisor to the USP Vice Chancellor.

Professor Field said he felt honoured, humbled and Professor Field was a member of the senior very pleased to be recognised for this work and also management of Lincoln and University from the acknowledged those who worked with him to mid 1990s and Vice-Chancellor from 2004 to 2012. He was appointed Professor of Plant science in 1986 and subsequently became Head of the Department of Plant Science. He became Emeritus Professor of Plant Science in 2004 on becoming Vice-Chancellor. was a member of the New Zealand Vice-Chancellor's committee from 2003 and was Chair in 2008 and 2009. He served on the Council of the Association of Commonwealth Universities from 2008 to 2011. He has been an Academic Auditor for "Its very important to recognise the importance of the Australian Universities Quality Agency and is education and research to support agriculture and currently a member of the University Quality Assurance International Board, Dubai. He was also the Director of Te Tapuae o Rehua and Chair of the South Island Dairying Development Centre.

Food supply at the market affected by Cyclone Evan

Samos Bureau Statistics





Agricultural food supplies according to the Samoa The average supply of banana, taamu, yam, Bureau of Statistics' survey at the Local Market in December 2012, recorded a downturn of 14 percent in overall volume. This loss in volume was due to bad effects and flooding caused by cyclone Evan which led to decreases in supplies of most agricultural produce with the exception of taro, coconut and taro palagi. Despite the negative effects of cyclone in December 2012, current volume was 4 percent higher than that in December The number of sellers at the market on the days 2011.

the month under review increased 4 percent from the previous month but when compared to December 2011, current price level was 37 percent lower. The increase in average price level in the month under review can be attributed to the rise in the prices of most commodities with the exception of ta'amu and breadfruit.

Taro seemed unaffected by the wet weather in December 2012 with its supplies increasing 37 percent. Strong demand for taro also pushed its average price up 10 percent. When compared with December 2011 with the prolonged dry season damaging many taro crops, current taro volume was four times higher while price was 56 percent lower.

breadfruit, vegetable produce such as cabbage decreased compared to the previous month and December 2011. This was not the case for taro, taro palagi and coconuts as their supply increased compared to the previous month and December 2011.

surveyed in December 2012 was reduced 23 percent to 146 from last month, a level that With limited availability, the average price level in was also 23 percent lower than that of December 2011 as most agricultural produce sellers were absent from the market due to the bad weather.



Yam a root crop for cyclone season

Cyclones and recent floods are a regular threat to Samoa which often leads to injuries and loss of human lives as well as the destruction of homes, food and seed stocks. In addition, damages to agricultural production leads to loss of main income source, which affects their ability to cover day-to-day expenses, such as food, water, electricity and medical fees.

Cash crops, such as bananas and taro, are often severely damaged during cyclones and flooding, uprooting and flooding the former and causing rotting in the latter.

To meet food needs, at-risk communities may cope with food shortages by developing cultivation techniques for root crop tubers, such as yams. Yet, even root crops can be damaged and lost through cyclones and floods, leaving villagers nearly destitute.

However, the losses to yam crops can be minimized if the cultivation techniques are improved and the crop is domesticated. The yam is hardy and regrows quickly after the withering of the above-ground part of the plant. The yam has higher yield for the area planted and can be grown in green houses, pots or in the garden because it does not require large amounts of land or soil.

Yams are an important staple food crop in the Pacific and widely cultivated in most of the Pacific Islands but the methods of production and storage vary considerably from place to place.

Also the times for planting, harvesting and storage vary. Occasionally, yams are left unharvested. But the most common practice is to harvest the yams and store them in a special structure ——diffused light houses. At harvest time, many yams are immediately eaten or taken to the market. But most are stored to be eaten or marketed during the 5 months or longer following harvest. Some of the harvested yams will be used as planting setts for the next season and may be stored up to 6 months.





Source: FAO & IRETA

New Director of the Pacific Centre for the Environment and Sustainable **Development (PACE-SD), USP Appointed**

Dr Esther Williams (DVC—USP)

Professor Elisabeth A. Holland was appointed the new Director of the Pacific Centre for the Environment and Sustainable Development (PACE-SD).

Professor Holland is an internationally recognized scientist for her work on the Earth System. She was a co-recipient of the 2007 Noble Peace Prize for her part in the Intergovernmental Panel on Climate Change (IPCC). She is an author of 4 of the 5 IPCC reports, serving as a US, German and now Fiji representative. Professor Holland is a Leopold Fellow, was a Professor at the Max Planck Institute for Biogeochemistry, and served as a Senior Scientist and Leader of the Biogeosciences Program at the National Center for Atmospheric Research in Boulder, Colorado, USA where she worked for more than 2 esteemed scientist and specialist join us. Her leaderand traditional knowledge to sail towards a sustain-portant area. able future for Pacific communities.

The University is fortunate to have such an her well.



decades. While relatively new to the Pacific Islands ship, her passion and knowledge of work on Climate region, Professor Holland is passionate about work- Change and the Earth System will greatly raise the ing collaboratively to weave together science, policy University's profile, leadership and work in this im-

We welcome Elisabeth to the University and wish

Storing yams

Jill W. Wilson (IRETA) & Linda S. Hamilton (SPRAD)

ceremonial storage barns of Papua New Guinea. metres above the ground.

Whatever the type of store used, the following principles should be considered when building the structure: adequate shade; protection from rain; good ventilation; security against animals, rats, thieves

Before the yams are put into the store, sanitation of the store, selection of sound tubers and during the period of storage regular inspection, rapid disposal of spoiling tubers and continued sanitation are important.

In the Pacific Islands, yams are frequently stored in These features are important when building the barns. These can be simple in design like the Tongan store: shade can be provided by either live or dead barn, or they can be very elaborate like the plant material or from iron sheeting; live shade is obtained by building the store under the shade of In other countries, yams are stored on covered growing trees, or by planting posts of fast-growing tables or hanging one by one from an elevated trees around the store; other plant material shading horizontal pole. These elevated horizontal poles are can be made from palm leaves, mats and grass made of wood or bamboo and are supported 1-2 thatch. Iron Sheeting can also be used but it will keep the store too hot unless it is also shaded with live shade or palm leaves.



Grafting, landscaping and organic farming: John Oimae







AgrikulsaNius

flowers or even bush limes and mandarin fruits depleted the soil of essential nutrients." growing on one tree. All this says John Oimae is He says making the change to organic farming is the possible thanks to the power of grafting.

Oimae a long time Dodo Creek soil specialist is an capital.

Among his clients are the Central Bank, Kitano Organic farming says Oimae is quite simple - using MAL.

Grafting is only done on request due to a shortage scraps and leaves from trees. them trees that season throughout the year and Oimae. ones that are short, and easy to harvest."

While grafting is something he does for fun, much The results from organic farming are now starting to of his professional life has been dedicated to soils show in Malaita with Oimae pointing to the success Research Division, classifying soils across Solomon after more than a generation. Islands.

"I've travelled across the country drilling and taking "I also believe in organic because of the quality of information I still have right here in my head."

It's this strong knowledge about the state of soils chemicals. Organic is all natural." Kwara'ae and surrounding areas.

14 per cent top soil is left, while in the interior of it's pure." •

A mango tree that produces fruit all year round, a Malaita there is 39 per cent. This is simply because rose bush or a hibiscus plant with different coloured of over cultivation through the generations has

> best way to counter poor quality soil and bring fertility back.

avid fan of grafting. Today he runs his own "When it comes to soil fertility we can't waste landscaping business in Honiara, growing plants in anymore time. We have to care for our soil. Where his own nursery for landscaping jobs around the will we feed our people? Our future is in agriculture."

Mendana Hotel, the National Parliament and now anything that rots to enrich soil quality, from kitchen scraps such as kumara peel to vegetable

of poly bags in the country, but the topic still brings All this is packed into a box, where it rots and is joy to Oimae, who spoke to Agrikalsa Nius of the broken down into compost. It's essential that you endless possibilities that grafting offers. "For can see worms eating through the compost as they farmers who want to harvest mangos I can give are the ones that bring nitrogen into the soil, adds

> "Plants need nitrogen, without it they can't grow properly or more importantly produce fruits."

having spent over 15 years in the Ministry's of farmers in the Dala area, where taro has returned

"The taro taste even better than the ones grown inland, this shows what organic farming can do."

samples of all the different land types. All that the food. When you go inside the stores the food is all chemicals. Even the chickens are full of

across the country that has made Oimae a strong He says the health benefits of organic farming offer advocate of organic farming. He says organic a potential marketing tool for farmers. Oimae is farming is the best way of overcoming soil adamant that people especially the expat degeneration that is common in his home village in community are willing to pay more for quality organic produce.

"Organic means no chemicals; if you grow an "We did a survey of these areas and found that only organic garden and you label it as organic it means

January Images









