

# Event Schedule

Tue, Oct 03, 2017

6:00am

## Breakfast & Registration Open

🕒 6:30am - 8:00am, Oct 3

8:00am

## Optional Morning Worship & Devotional

🕒 8:00am - 8:35am, Oct 3

📍 Siriphum Hall

### Speaker:



**Andy Bell**

Salam Training & Consulting

## Welcome and Opening Announcements

🕒 8:50am - 9:00am, Oct 3

📍 Siriphum Hall

9:00am

## The Answer is in the Room

🕒 9:00am - 9:45am, Oct 3

📍 Siriphum Hall

One of our most important roles as we work in rural communities is to train others so that knowledge and skills can be effectively passed on and learning continue. Top down, university-style lectures seldom incite passion in the learner in the same way that learner-centered self-discovery can. We will look at several principles to help us design meaningful trainings.

### Speaker:



**Karen Stoufer**

Director of Training and Asia Area Director, Christian Veterinary Mission (CVM)

10:00am

## Soil Fertility and Management for Smallholder Farmers

🕒 10:15am - 11:00am, Oct 3

📍 Siriphum Hall

Soils of smallholder farmers are often depleted of organic matter and available soil nutrients, and may also be acidic and/or saline. We will review the causes and extent of these soil-related challenges in the developing world. A variety of possible management responses to these challenges will be compared and contrasted, including conservation agriculture, practices to increase soil organic matter, liming, and use of fertilizers and other soil amendments. We will also discuss the importance of maintaining a positive nutrient balance for plant macronutrients. Soil degradation has been identified as a critical constraint for improving agricultural productivity in smallholder agriculture. Therefore, understanding how to manage soils for improved fertility is paramount for successful agricultural development.

### Speaker:



**Tom Thompson**

Associate Dean and Director of International Programs College of Agriculture and Life Sciences and Professor of Agronomy, Virginia Tech University

11:00am

## Business for Transformation in Myanmar

🕒 11:10am - 11:55am, Oct 3

📍 Siriphum Hall

In a country where 30% of the population live under the poverty line, how does one help bring about sustainable livelihood as well as spiritual, social, and environmental changes? One business at a time. This workshop will unveil the work that has been done in Myanmar in the past 3 years by Business for Transformation (B4T) through a unique model that is now being used in 11 other countries.

Speaker:



**Laval Yau**  
Business for Transformation (B4T)

12:00pm

**Lunch**

🕒 12:00pm - 1:30pm, Oct 3

1:00pm

**A Case Study- PMA**

🕒 1:30pm - 2:30pm, Oct 3

📍 Siriphum Hall

This workshop will be a presentation of work done at PMA (Patheingyi Myaungmya Sgaw Kayin Baptist Association) and the Kingdom impact observed to date.

Speaker:



**Laval Yau**  
Business for Transformation (B4T)

**Improving Yields Using High-Quality Seed**

🕒 1:30pm - 2:30pm, Oct 3

📍 Wachirathan Hall (2nd Floor)

Seeds are one of the important factors influencing yield potential. Crop seeds contain all the genetic information to determine yield potential, adaptation to environmental conditions, and resistance to insect pests and disease. Good seed quality is the foundation for long-term productivity growth. One of the farmers' most critical management decisions is the selection of seed source and variety. The cost of seed (for planting) usually is 10-15% of the total cost of production. However, poor seed quality will affect every component of yield, thus reducing the overall yield potential of the crop. Based on surveys and interviews conducted by USAID-ERA in partnership with several Senegal governments and public and private institutions, a three-part seed training and education program was conducted and focused on seed technology, analysis, and evaluation. In August, 2015, we completed both the technical (workshops) and practical (laboratory and field) training programs and awarded 30 laboratory and field technicians with certificates.

Speaker:



**Ozzie Abaye**  
Professor of Agronomy, Virginia Tech

**Tomato, Pepper, and Eggplant Grafting (Thai to English)**

🕒 1:30pm - 2:30pm, Oct 3

📍 Chiang Dao Room

This workshop will explore the methods and benefits of vegetable grafting, specifically for tomato, pepper, and eggplants. Plant propagation is the ability to multiply plant numbers while preserving plant characteristics or develop better characteristics. Vegetable grafting is a mechanism by which two varieties of plants can be grafted to receive multiple benefits. Some of the benefits of grafting vegetables include: it is inexpensive and easy, it does not rely upon expensive technologies, it produces the same plant characteristics, it utilizes rootstock that is healthy and strong, it produces fruit earlier, it produces fruit more quickly, it produces a strong plant, it is disease resistant, it is adaptable to the environment.





Speaker:



**Kittichai Saampunsinkor**  
Seed Bank Production Manager, ECHO Asia Impact Center

### Meet the Speaker

🕒 1:30pm - 2:30pm, Oct 3

📍 Huay Hong Krai Room

Smallholder farmers in the developing world face many challenges; a number of these are soil-related. As soil quality is critical for agricultural development, understanding how to manage and improve soil fertility are the tools for success. This workshop is an opportunity to meet with Dr. Tom and discuss the causes and extent of some of these challenges, as well as a variety of possible management responses.

Speaker:



**Tom Thompson**  
Associate Dean and Director of International Programs College of Agriculture and Life Sciences and Professor of Agronomy, Virginia Tech University

### Introduction to the Sustainable Agriculture Training Center in Myanmar

🕒 1:30pm - 2:30pm, Oct 3

📍 Huay Nam Rin Room

Since 2007, there have been more than 1,000 farmers from many parts of Myanmar that have attended the Sustainable Agriculture Training Center to participate in several trainings of agriculture and livestock basic knowledge. After the trainings, most of them returned back to their homes to work on their own farms and use their learning experiences to benefit themselves and also pass on their learning and experiences to their neighbors. As a result of their time at the center learning and participating in sustainable agriculture, the production of their agriculture and livestock have improved to some extent and they have experienced better livelihoods. This workshop will share about the center, its techniques, extension methodologies, and some of the experienced results of its work.

Speaker:



**Saw Hei Moo**  
Chairperson, Christian Social Service and Development Department (CSSDD) of the Myanmar Baptist Convention (MBC)

### Coffee Harvesting and Processing to Improve Quality

🕒 1:30pm - 2:30pm, Oct 3

📍 Outdoor Sala

In this workshop, participants will learn some of the basics of coffee harvesting, handling, and processing. The aim of the workshop is to help impart some basic knowledge that participants can then use to help increase coffee quality, with a vision for positively impacting producers' livelihoods and communities.

Speaker:



**Zach Price**  
Specialty Coffee Association

### Dry Composting Toilets: Good News for God's Green Earth III

🕒 1:30pm - 2:30pm, Oct 3

📍 Siriphum 2

There are many appropriate building technologies available. How environmentally friendly are they? Earthquake resistant? Typhoon resistant? How can we introduce new materials to a traditional construction culture? Why would we want to produce our own materials? How can we make production accessible to women? In what cases does it make sense to use a new technology? We'll consider interlocking compressed earth blocks, micro concrete roofing tiles, rice husk ash cement, bamboo, and more.

Speaker:



**Geoffrey Wheeler**

Center for Vocational Building Technologies (CVBT)

3:00pm

#### **Making the Shift from Teacher to Learner-led**

🕒 3:00pm - 4:00pm, Oct 3

📍 Siriphum Hall

In this workshop, we will have an opportunity to use the principles taught in the plenary and put them into practice by applying them to our work. Each participant should bring a small (10—15 minute) lesson design that they would normally use. Then by working in small groups, we will modify that lesson to be more student participatory and less trainer-directed.

Speaker:



**Karen Stoufer**

Director of Training and Asia Area Director, Christian Veterinary Mission (CVM)

#### **Soil Improvement**

🕒 3:00pm - 4:00pm, Oct 3

📍 Wachirathan Hall (2nd Floor)

Healthy soil is very important in order to grow healthy plants. In this workshop, I will share about some of ARI's techniques in order to improve soil.

Speaker:



**Osamu Arakawa**

Asian Rural Institute

#### **Improving Lives and Livelihoods Through Tourism: Examples from India**

🕒 3:00pm - 4:00pm, Oct 3

📍 Chiang Dao Room

A common feature of remote villages is a lack of income-generating opportunities that force young people to migrate to the cities for employment. This results in communities dominated by the young and the old, a decline in the social and cultural fabric, and a reduced pride in rural life. Since 2005, Village Ways has formed partnerships with community groups that have tourism potential to enable them to build, own, and manage guesthouses, to host tourists, and provide income for the communities. This has effectively combined social enterprise with commercial development. Therefore in this workshop, Keith will discuss the many benefits, going beyond the increase in income, of development through tourism for the lives and livelihoods of the host villagers, using examples from India.

#### **Appropriate Construction Technologies for God's People, Their Animals, and Grain**

🕒 3:00pm - 4:00pm, Oct 3

📍 Huay Nam Rin Room

There are many appropriate building technologies available. How environmentally friendly are they? Earthquake resistant? Typhoon resistant? How can we introduce new materials to a traditional construction culture? Why would we want to produce our own materials? How can we make production accessible to women? In what cases does it make sense to use a new technology? We'll consider interlocking compressed earth blocks, micro concrete roofing tiles, rice husk ash cement, bamboo, and more.

Speaker:



**Geoffrey Wheeler**

Center for Vocational Building Technologies (CVBT)

#### **Working Together with Farmers to Understand and Build a More Sustainable Sloping Land Corn and Rice Farming System**

🕒 3:00pm - 4:00pm, Oct 3

📍 Huay Hong Krai Room

In this workshop, I will describe and diagram the common sloping land corn and rice farming system. I will then identify leverage points within the system and how development workers can work with farmers to make these systems more sustainable.

Speaker:



**Joshua Ringer**  
CEO, Indigdev

**An Introduction to Coffee Roasting**

🕒 3:00pm - 4:00pm, Oct 3  
📍 Outdoor Sala

The final and most dynamic process in the coffee's journey from tree to consumer is roasting. Roasting simple consist of heating a coffee seed from room temperature to over 200°C can be done a number of different ways and produce a whole range of different characteristics. We will look at some of the different strategies for executing this heat transfer as well as some of the intrinsic factors in the coffee that affect how it responds to roasting.

Speaker:



**Kaleb Jordan**  
Gem Forest Coffee, Thailand

**NPC- 'Non-Profit Chickens' (Thai to English) ( )**

🕒 3:00pm - 4:00pm, Oct 3  
📍 Siriphum 2

In this workshop, he will talk about his small backyard urban garden and his experiments with integrating egg-laying chickens into the system on multiple levels. Faced with the economic reality of it being cheaper to buy eggs than produce them himself using store-bought feeds, he began to look for ways to reduce feeding costs and then ways to manage the chickens to add-value to him as a gardener apart from having eggs to eat each day. He leaned heavily on "Natural Farming" for ideas and will talk about how his chickens make eggs, fertilizer, compost, and vermicompost and so outline his different experiments in small-scale silage making for supplementary feed.



Speaker:



**Scott Breaden**  
Wycliffe Thailand

4:00pm

**Break, Networking, Resource Fair**

🕒 4:00pm - 4:30pm, Oct 3

Throughout the event, we will have coffee breaks and designated times for a resource fair to allow participants to connect with various resources and vendors that might be useful for your work. They will be located out in the vestibule of the main conference rooms.

**Poster Session**

🕒 4:30pm - 6:00pm, Oct 3  
📍 Siriphum Hall

This session will provide those conference attendees who've submitted a poster abstract, to share and exchange information about their poster. Presenters will have approximately three minutes to discuss their poster and one minute to receive questions from the audience. All are welcome to join. In addition to our poster submission opportunity, we provided conference delegates with an opportunity to submit research papers for publication. We invite you all to read the abstracts attached. They will be compiled and sent out to the ECHO network following the conclusion of the conference. Please enjoy the attached document and seek out these individuals while we are here!

6:00pm

**Book Fair/Resource Fair Open**

🕒 6:00pm - 7:30pm, Oct 3

Throughout the event, we will have coffee breaks and designated times for a resource fair to allow participants to connect with various resources and vendors that might be useful for your work. They will be located out in the vestibule of the main conference rooms.

Wed, Oct 04, 2017

6:00am

**Breakfast**

🕒 6:30am - 8:00am, Oct 4

8:00am

**Optional Morning Worship & Devotional**

🕒 8:00am - 8:35am, Oct 4

📍 Siriphum Hall

Speaker:



**Dr. Prawate Khid-arn**  
Church of Christ in Thailand (CCT)

**ECHO Asia Snapshot**

🕒 8:50am - 9:00am, Oct 4

📍 Siriphum Hall

Speaker:



**Abram Bicksler**  
Director, ECHO Asia Impact Center

9:00am

**Small-Scale Silage Production in the Tropics**

🕒 9:00am - 9:45am, Oct 4

📍 Siriphum Hall

The goal of silage preservation is the conversion of moist, chopped forage with a short storage life to preserved forage that can be fed to livestock as needed. Most legume and grass crops can be ensiled successfully. The key to good silage management is air exclusion to obtain the best preservation of forage as silage. The production process of silage can be divided into four stages: forage harvesting, wilting, chopping, compacting and sealing (for air-tightness). The proper execution of these stages has a big impact on the success or failure of the fermentation and the quality of the silage. The silage concept is more prevalent in temperate regions, with their distinct seasons, than in the tropics. Nevertheless, silage production in the tropics has become more relevant to fulfill the forage needs of smallholder farmers (FAO, 2000).

Speaker:



**Ozzie Abaye**  
Professor of Agronomy, Virginia Tech

10:00am

**Improving Lives Through Seeking First to Understand**

🕒 10:15am - 11:00am, Oct 4

📍 Siriphum Hall

This session will look at the "best practices" of learning to learn from others and their experiences. In a world full of "techno-diddies," as development workers, we often overlook the local knowledge and wisdom source of the very people and communities we are called to serve. How do we "put the first last" in a practical way? How do we overcome our own biases and, frankly, learned patterns, and seek to understand before trying to make ourselves understood. And what difference does this all make with sustainable development?

Speaker:



**Jeff Palmer**  
BGR

11:00am

### Organic Seed Production Systems

🕒 11:10am - 11:55am, Oct 4

📍 Siriphum Hall

These days, many outstanding and special characteristics of local seeds, such as pest and disease resistance, have slowly become extinct, but people are not aware of it. Increasingly, farmers are buying their seeds from vendors instead of saving their own seeds. To help overcome this crisis, a change in seed systems must begin with organic seed production. In 2008, Green Net initiated an organic seed production program with various learning activities and networking in northern Thailand. Since then, Green Net has organized knowledge collection and review, study visits, technical training, experiments, and networking facilitation. There is now an Organic Seed Network with around 10 organizational members. This plenary session will share about how Green Net Organic Center Chiang Mai was founded in 2011 by the Earth Net Foundation and Green Net Cooperative. The focus of this talk will be to share how the Center collects, tests, and produces organically grown open-pollination local vegetable seeds.

Speaker:



**Mathana Aphaimool (Pui)**  
Earth Net Foundation

12:00pm

### Lunch

🕒 12:00pm - 1:30pm, Oct 4

1:00pm

### Grassland Conservation: Silage making for smallholder farmers

🕒 1:30pm - 2:30pm, Oct 4

📍 Siriphum Hall

The goal of silage preservation is the conversion of moist, chopped forage with a short storage life to preserved forage that can be fed to livestock as needed. Most legume and grass crops can be ensiled successfully. The key to good silage management is air exclusion to obtain the best preservation of forage as silage. The production process of silage can be divided into four stages: forage harvesting, wilting, chopping, compacting and sealing (for air-tightness). The proper execution of these stages has a big impact on the success or failure of the fermentation and the quality of the silage. The silage concept is more prevalent in temperate regions, with their distinct seasons, than in the tropics. Nevertheless, silage production in the tropics has become more relevant to fulfill the forage needs of smallholder farmers (FAO, 2000).

Speaker:



**Ozzie Abaye**  
Professor of Agronomy, Virginia Tech

### I am this Person

🕒 1:30pm - 2:30pm, Oct 4

📍 Wachirathan Hall (2nd Floor)

In many cultures, women can be viewed as second-class citizens or treated as property. However, in this workshop, Karen will share stories and discuss how working together in groups has contributed to the transformation of women and communities in the patriarchal society of Nepal.

Speaker:



**Karen Stoufer**  
Director of Training and Asia Area Director, Christian Veterinary Mission (CVM)

**Mobile Technologies and Smartphone Apps for Agriculture**

🕒 1:30pm - 1:30pm, Oct 4  
📍 Chiang Dao Room

As mobile technologies improve and expand rapidly into rural areas, several types of applications have been developed to help farmers access up-to-date agricultural information, banking and lending platforms, and increase efficiencies in the agriculture supply chain. We will discuss a variety of proposed mobile systems for agriculture and look at several applications currently being adopted by farmers in Asia and Africa. Finally, we will investigate specific smartphone apps for Android and iOS that are designed to provide crop nutrient information, soil, weed, pest and disease ID, weather forecasts, photo logging, canopy cover analyses, and geolocation.

Speaker:



**Patricia Donovan**  
Geographic Information Systems (GIS) Specialist, Virginia Tech, USA

**Purpose and Passion in Work**

🕒 1:30pm - 2:30pm, Oct 4  
📍 Huay Hong Krai Room

Meet a couple of accidental entrepreneurs who love a good challenge, especially the kind that can benefit a community. Melanie and U Khine started a local company named Lilypad in 2006. Their projects include filters, compressed earth blocks, Moringa, natural farming, coffee, rabbits, and stink-free pigs. They will share about the projects, but hope that you won't miss the purpose and passion behind their work. Come ask questions, submit new ideas, and share your challenges. Where do the needs around you intersect with your interests and/or skills? Let's brainstorm and collaborate for His good purpose.

Speaker:



**Melanie Edwards**  
Lilypad Myanmar

**Meet the Speaker- English/Thai**

🕒 1:30pm - 2:30pm, Oct 4  
📍 Huay Nam Rin Room

This is an opportunity to meet the speaker and ask any questions you might have that were raised during the plenary session.

Speaker:



**Mathana Aphaimool (Pui)**  
Earth Net Foundation

**Seed Saving Practices in the Tropics (Thai to English)**

🕒 1:30pm - 2:30pm, Oct 4  
📍 Outdoor Sala

The diversity of seeds we have today will vanish if we do not know how to keep them properly. Improper seed keeping will result in extinction and it will impact human beings, especially their food security. This workshop will explore the basics of seed saving, the history and methodology of the ECHO Asia Seed Bank, as well as several appropriate options for community-level seed banking.

Speaker:



**Rattakarn Arttawutikun**  
Seed Bank Manager, ECHO Asia Impact Center

**Agriculture and Food Security from the Perspective of Pakistan and the Importance of the Seed Industry**

🕒 1:30pm - 2:30pm, Oct 4  
📍 Siriphum 2

Pakistan's agriculture sector is a key pillar of the national economy; however, continuous decline has been observed in the production and income of small farmers. The complex agriculture system, market norms and practices, socio-economic, and environmental factors have reduced the profitability and viability of the small

farmers' association within the wider agriculture sector. The Mirpurkhas Food Security Project (MFSP) and the Qalanderabad Integrated Farming System Project (QIFS) were two landmark efforts by local Christian-led organizations to enhance the resilience, self-reliance, well-being, food security, and socio-economic circumstances and conditions of small farmers in different zones of Pakistan. This presentation will provide the audience with nuanced insight into the methodologies, challenges, outcomes, and impacts of the two aforementioned projects activities. There is an emphasis on demonstrating how these projects were an integral part of a holistic transformation process that enabled disadvantaged communities to become self-sufficient, empowered, and resilient. Thus, these households were able to enjoy lives full of dignity, learning, hope and continuous improvement.

Speaker:



**Solomon Khurrum**  
Pak Mission Society

2:00pm

#### Coffee Break, Networking, Resource Fair

🕒 2:30pm - 3:00pm, Oct 4

Throughout the event, we will have coffee breaks and designated times for a resource fair to allow participants to connect with various resources and vendors that might be useful for your work. They will be located out in the vestibule of the main conference rooms.

3:00pm

#### Community Development: The Process and Some Fun Tools

🕒 3:00pm - 4:00pm, Oct 4

📍 Siriphum Hall

This session will briefly define the process of community development. What are some things we need to consider as we enter, implement, and then exit? How do we ensure community involvement and ownership from beginning to end? Come and share your experiences and learn some fun, practical tools used in engaging the communities in the development process!

Speaker:



**Jeff Palmer**  
BGR

#### Kingdom Impact through Business - Success & Failure

🕒 3:00pm - 4:00pm, Oct 4

📍 Wachirathan Hall (2nd Floor)

This workshop will be on Kingdom impact in general, looking at the issues and barriers to success.

Speaker:



**Laval Yau**  
Business for Transformation (B4T)

#### Options for Improving Soil Fertility on Smallholder Farms

🕒 3:00pm - 4:00pm, Oct 4

📍 Chiang Dao Room

It is often a problem in tropical soils farmed by smallholders that the soil is nutrient-depleted and acidic, costing the farmer more money and yielding less valuable crops. In an attempt to overcome this, Dr. Tom will discuss different ways of evaluating important soil properties and thus options for improving soil pH and nutrient status using techniques that are appropriate for smallholder agriculture.

Speaker:



**Tom Thompson**  
Associate Dean and Director of International Programs College of Agriculture and Life Sciences and Professor of Agronomy, Virginia Tech University

### Experiencing a 'Superfood Movement': The Story of Chaya in Indonesia

🕒 3:00pm - 4:00pm, Oct 4

📍 Huay Hong Krai Room

In 1998, ECHO USA mailed six chaya stalks to Indonesia. Today, a conservatively estimated 10,000 households across Indonesia are benefiting from this 'Mayan Superfood.' Come hear about an indigenous grower-to-grower movement and how its promoters in the informal association, "Komunitas Chaya Indonesia," are writing new chapters in the Chaya Indonesia story. Learn how you can promote this highly nutritious, drought tolerant, edible shrub in your area. [www.frontwosticks.com](http://www.frontwosticks.com)

Speaker:



**Andy Bell**  
Salam Training & Consulting

### An Introduction to Vetiver Grass and its Uses

🕒 3:00pm - 4:00pm, Oct 4

📍 Huay Nam Rin Room

The central component of The Vetiver System is Vetiver Grass (*Chrysopogon zizanioides*), a sterile, non-invasive tropical bunchgrass. It is used throughout the tropics in a wide-range of applications including erosion control, degraded land remediation, soil conservation and runoff retention, remediation of polluted land and water bodies, in constructed wetland sanitation systems, for supplemental fodder, as thatch, for many handicrafts, for biofuel, and as a source of expensive essential oil. Vetiver Grass is a safe and valuable addition to any smallholder farm or agroforestry system as well as for those working in infrastructure.

Speaker:



**David Price**  
Senior Environmental Consultant, LEAD Asia



**Grace Gesto**  
LEAD Asia

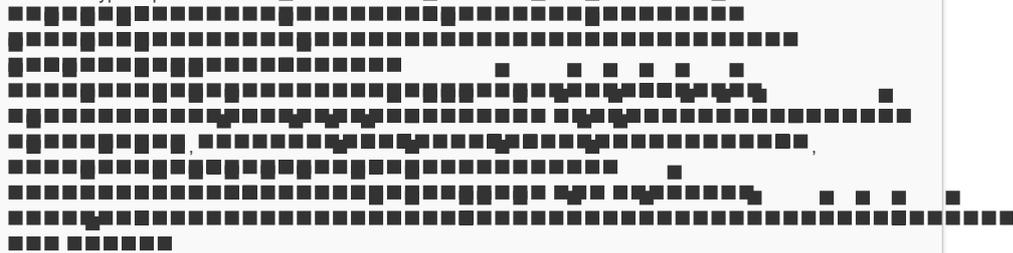
### The Four Techniques of Seed Harvesting- Thai (Thai to English)



🕒 3:00pm - 4:00pm, Oct 4

📍 Outdoor Sala

Seeds are the most significant agricultural input factor. Smart farmers must know how to select and harvest the seeds that are adaptable to the environment in a particular area and their production requirement characteristics. Each vegetable has certain times during the plant's growth when seed selection and harvesting is best accomplished. There are four seed selection and harvesting stages which are: 1) harvesting at the dry fruit stage, such as Lufa species; 2) harvesting at the early ripe stage, such as corn and beans; 3) harvesting at the completely ripe stage, such as eggplant species and gourd species; and 4) harvesting mucus-covered seed, such as papayas, cucumbers and tomatoes. Successful farmer must know how and when to select and harvest seed from each type of plant.



Speaker:



**Mathana Aphaimool (Pui)**  
Earth Net Foundation

### Indigenous Plants of northern Thailand and Their Uses

🕒 3:00pm - 4:00pm, Oct 4

📍 Siriphum 2

Why is local food important? We will discuss a few topics related to local food: 1) Right now, local food is a trend that includes a focus on super foods, clean food, and supplements. 2) Local food touches on food sovereignty. Do we have a choice of what we eat? 3) Indigenous plants are still being used and are important in people's diets. 4)

For all their benefits and historical uses, indigenous foods are not without their problems. We will discuss why indigenous plant usage is being reduced or becoming rare. 5) We will end by discussing about how do we preserve and use indigenous plants?

Speaker:



**Noi Sangwan**  
Thailand

4:00pm

#### Break, Networking, Resource Fair

🕒 4:00pm - 4:30pm, Oct 4

Throughout the event, we will have coffee breaks and designated times for a resource fair to allow participants to connect with various resources and vendors that might be useful for your work. They will be located out in the vestibule of the main conference rooms.

#### Night Bazaar/Affinity Groups

🕒 4:30pm - 6:00pm, Oct 4

📍 Siriphum Hall

This late afternoon session is an informal time for participants to host a table and showcase their work via brochures, publications, artifacts, tools, etc. This is a free event in addition to the paid resource fair and will only be available for this specified time. All are welcome and encouraged to bring something to share about your work in a meet-and-mingle type of venue. There will also be the ability to organize affinity groups during this time or at another time of your choosing. Sign-ups will be available during registration if you are interested in hosting at table during the Night Bazaar or coordinating the meeting of an affinity group.

Thu, Oct 05, 2017

6:00am

#### Breakfast

🕒 6:30am - 8:30am, Oct 5

8:00am

#### Optional Morning Worship & Devotionals

🕒 8:00am - 8:35am, Oct 5

📍 Siriphum Hall

Speaker:



**Jae Hak Ahn**  
Korean Christian Life Giving Agriculture Forum (KKCLGAF)

#### Coffee Break, Networking, Resource Fair

🕒 8:35am - 8:50am, Oct 5

Throughout the event, we will have coffee breaks and designated times for a resource fair to allow participants to connect with various resources and vendors that might be useful for your work. They will be located out in the vestibule of the main conference rooms.

9:00am

#### Behind the Leaf: Coffee in Myanmar

🕒 9:00am - 9:45am, Oct 5

📍 Siriphum Hall

Coffee is one of the most traded commodities in the world. The coffee industry in Myanmar, however, was relegated to low-quality domestic use until recent years. With seemingly simple but effective harvesting and processing methods, the cupping quality increased dramatically and now has become renown within the specialty coffee market around the world. Listen in on the challenging journey of bridging a remote mountainous region to the world and the effect that has had on people's lives.

Speaker:



**Melanie Edwards**  
Lilypad Myanmar

10:00am

#### **Life Giving Agriculture and Life Killing Technology**

🕒 10:15am - 11:00am, Oct 5

📍 Siriphum Hall

We produce food with a healthy relationship with nature. However, on March 11, 2011, an earthquake occurred in Northeast Japan and the resulting tsunami killed more than 18,000 people and it also crippled a nuclear power plant. As the nuclear plant exploded, our school was also contaminated by radiation. It polluted the water, air, soil, trees, and our life. What is real rural development and what is the meaning of producing food? We are carrying these questions much more deeply than before.

Speaker:



**Osamu Arakawa**  
Asian Rural Institute

11:00am

#### **Improving Lives Through Small Scale Vegetable Gardening**

🕒 11:10am - 11:55am, Oct 5

📍 Siriphum Hall

Home garden interventions are one of few agricultural interventions with a proven effect on nutritional outcomes and potentially contribute to 8 of the 17 Sustainable Development Goals. Despite a recent surge in interest, there remains a lack of knowledge about the most effective ways to implement home garden interventions. Through this session, Pepijn will share some of the experiences of the World Vegetable Center in home gardening for better, healthier lives.

Speaker:



**Pepijn Schreinemachers**  
Flagship Program Leader, World Vegetable Center

12:00pm

#### **Lunch**

🕒 12:00pm - 1:30pm, Oct 5

1:00pm

#### **Organic Fertilizers Using Local Resources**

🕒 1:30pm - 2:30pm, Oct 5

📍 Siriphum Hall

Let us try to make organic fertilizers with local resources. What you need is all around you. In this workshop, we will try to help you minimize the use of resources coming from outside of your country, especially as they relate to fertility in agriculture.

Speaker:



**Osamu Arakawa**  
Asian Rural Institute

#### **Guidelines and Methods for Developing Agricultural Value Chains for Small Agribusiness**

🕒 1:30pm - 2:30pm, Oct 5

📍 Wachirathan Hall (2nd Floor)

This workshop will explore how to research and implement small value-chains in order to help develop small agribusiness.

Speaker:



**Joshua Ringer**  
CEO, Indigdev

**Agriculture Development Using Community Health & Evangelism (CHE) Principles**

🕒 1:30pm - 2:30pm, Oct 5  
📍 Chiang Dao Room

As we seek to introduce new crops and innovative methods to poor farmers, there are key factors that will increase the likelihood of their adoption, continued use, and interest among a growing number of farmers. Being aware of these key factors can make a big difference between success or failure, increased profits or continued poverty, and empowerment or disillusionment. This workshop will present simple but powerful insights needed in crafting successful agriculture projects.

Speaker:



**David Crist**  
Community Development Trainer/Consultant, CHE

**SALT: Agroforestry Options for Upland Farming in the Humid Tropics**

🕒 1:30pm - 2:30pm, Oct 5  
📍 Huay Hong Krai Room

The Sloping Agriculture Land Technologies (SALT) were developed in the Philippines more than 30 years ago. They were developed with local farmers incorporating some key principles for farming the uplands in the humid tropics such as soil erosion control, fertility management through use of plant biomass, and maintaining biodiversity. Come and hear about the beginnings of SALT, the principles behind the systems, and share your experiences as well.

Speaker:



**Jeff Palmer**  
BGR

**An Introduction to the Green Garden Food Forest in Buri Ram, (English with potential for Thai)**

🕒 1:30pm - 2:30pm, Oct 5  
📍 Huay Nam Rin Room

In July 2014, I started planting trees at the Green Garden, located in the northeast area of Thailand, which is known to have very dry summers. This food forest was started on bare ground. To prepare the soil, it was covered with compost rice straw. We started by planting banana trees to help build and maintain soil moisture. Fruit trees were then planted around the banana trees. In the first year, as the banana trees died, they provided compost for the growing fruit trees. In the second year, more plants were added under the shade. Twigs and branches (chop and drop) were added to further improve the soil in preparation for the planting of herbs. In the third or fourth year, I added more ivy plants. Throughout the process, I continue to pollard the Luceanea trees using chop and drop to



Speaker:



**Chonthicha Srisuk**  
Food Forest

**Approaches for Incorporating Perennial Vegetables to Improve Household Nutrition**

🕒 1:30pm - 2:30pm, Oct 5  
📍 Outdoor Sala

Perennial vegetables are often overlooked in nutrition approaches but present significant opportunities for fighting poverty, hunger, and malnutrition, as well as to make farming systems more resilient to climate change. This workshop will draw on the ECHO Asia publication "A Practical Nutrition Guide for Community Development Workers" and present practical approaches to include perennial vegetables in a daily diet, influenced by the culinary heritage of resource-poor highland communities in Thailand.

Speaker:



**Ruth Tshin**

Monitoring & Evaluation Officer, Sulawesi Economic Development Strategy Project, Humber Institute of Technology & Advanced Learning

**Organic Feeds using Indigenous Microbial Fermented (IMF) Feeds and Azolla (or Other Proteinaceous Available Indigenous Plants), Rice Bran, and Molasses for Free-Range Native Pigs and Chickens.**

🕒 1:30pm - 2:30pm, Oct 5

📍 Siriphum 2

This workshop will look at indigenous microbial fermented feeds as an alternative to our expensive foreign/imported GMO corn-soy based feed ration for our native animals (chicken and swine). Experiments on microbial fermentation on indigenous plants was conducted in terms of palatability, hatchability, and egg production (size and quality of egg on Dark yellow and Hard shell) on native chickens, and also on swine based on number of offspring (litter production). Physical results on animals are encouraging, and these feeds can be inexpensive, safe, and nutritious.

Speaker:



**Doy Nacpil**

President, FDN AgriEco Center

2:00pm

**Coffee Break, Networking, Resource Fair**

🕒 2:30pm - 3:00pm, Oct 5

Throughout the event, we will have coffee breaks and designated times for a resource fair to allow participants to connect with various resources and vendors that might be useful for your work. They will be located out in the vestibule of the main conference rooms.

3:00pm

**Impact Evaluation of Agricultural Development Projects**

🕒 3:00pm - 4:00pm, Oct 5

📍 Siriphum Hall

The goal of impact evaluation is to assess changes in people's well-being that can be attributed to project interventions. Impact evaluation is important to learn as an organization in order to distinguish between what has worked well and what has perhaps not worked well, and in both cases, understanding the reasons why. Through this workshop, participants will gain a good understanding of what impact evaluation is, why it so important, and how it can be done. Participants can also share their stories and experiences alongside Dr. Pepijn, who will give examples of recent studies and research conducted by the World Vegetable Center.

Speaker:



**Pepijn Schreinemachers**

Flagship Program Leader, World Vegetable Center

**An Introduction to Earth Building Techniques**

🕒 3:00pm - 4:00pm, Oct 5

📍 Wachirathan Hall (2nd Floor)

This presentation is a summary version of the information provided during the Mae Mut Garden workshops minus the practical aspect. We aim to show that natural building is a very easy technique to learn and requires no special skills, as well as having a number of environmental and financial benefits. The process starts with an understanding of the possibilities offered by the various techniques of earthen building and of the basic considerations when using adobe in a tropical climate. We offer a brief outline of the basic design principles of using adobe and go through a step-by-step analysis of the various aspects of construction, from budgeting and site planning up to plastering techniques and decorative detailing.

Speaker:



**Marco Tosi**  
Manager, Mae Mut Garden

**Biochar**

🕒 3:00pm - 4:00pm, Oct 5  
📍 Chiang Dao Room

This workshop will explore biochar and how Warm Heart has been researching, experimenting, creating, and promoting biochar in northern Thailand and some of the lessons learned through the years.

Speaker:



**Dr. Michael Shafer**  
Founder and Director, Warm Heart Foundation

**An Introduction to Coffee Cupping**

🕒 3:00pm - 4:00pm, Oct 5  
📍 Huay Hong Krai Room

This workshop will provide the opportunity to learn basic coffee cupping skills, evaluating some of the coffee that was submitted by participants prior to arrival and coffee that was roasted on-site during the prior workshops. Sign-up required.

Speaker:



**Kaleb Jordan**  
Gem Forest Coffee, Thailand

**The Role of Legume Crops in Sustainable Agriculture: Prospects for SE Asian Uplands**

🕒 3:00pm - 4:00pm, Oct 5  
📍 Huay Nam Rin Room

Speaker:



**Pascal Lienhard**  
Agronome chercheur, CIRAD

**Solar Water Pumps (Thai to English)**

🕒 3:00pm - 4:00pm, Oct 5  
📍 Outdoor Sala

A solar water pump (solar pump) uses a photovoltaic system to provide power to pump water. There is a lot of interest in its use for agriculture and solar module costs are decreasing significantly. However, there are still many types of pumps used and the technology can be complicated. Not only will the quantity of water and the dynamics of the water head determine the selection of an appropriate pump, but there are still many technologies that need to be explored and developed. This presentation will show appropriate techniques and technologies for solar pumps, including some project references of successful solar water pump systems. There is a great potential for solar pumps to be useful in agricultural applications.

Speaker:



**Asst. Prof. Dr. Natthawud Dussadee**  
Director, Maejo University School of Renewable Energy

### The Life Giving Agriculture (LGA) Movement in Korea and Asia Through the Rural Church and Christianity

🕒 3:00pm - 4:00pm, Oct 5

📍 Siriphum 2

This workshop will look at the role the rural church has played in Korea as it relates to integrating agriculture and faith together in rural livelihoods.

#### Speaker:



**Jae Hak Ahn**

Korean Christian Life Giving Agriculture Forum (KKCLGAF)

4:00pm

### Break, Networking, Resource Fair

🕒 4:00pm - 4:30pm, Oct 5

Throughout the event, we will have coffee breaks and designated times for a resource fair to allow participants to connect with various resources and vendors that might be useful for your work. They will be located out in the vestibule of the main conference rooms.

### Seed Swap

🕒 4:30pm - 5:30pm, Oct 5

📍 Wachirathan Hall (2nd Floor)

Many of you have already registered for a particular seed bundle when you registered for the conference. If you haven't you will be able to choose your seed bundles at the conference registration table or participate in this seed swap. If you would like to participate in this session, please bring seeds to contribute! Feel free to collect varieties of seed from your farm, garden, or neighbors to share that you think have merit or are special. We ask that you bring them in small bags (if possible 100-300g depending on size of the seeds) that are labeled and that they are open pollinated (self-collected and able to be saved year after year). You will have the chance to share about these seeds with other participants and bring home some of their seeds.

6:00pm

### Celebration Banquet

🕒 6:00pm - 7:15pm, Oct 5

📍 Siriphum Hall

7:00pm

### Evening Program

🕒 7:15pm - 8:30pm, Oct 5

📍 Siriphum Hall

Closing Worship Announcements Evaluations Closing Thoughts Seed Bundles Distributions

Fri, Oct 06, 2017

8:00am

### Maejo University Natural Farming Research and Development Center (Half Day)

🕒 8:00am - 12:00pm, Oct 6

📍 Maejo University Natural Farming Research and Development Center

Located on the outskirts of Maejo University, the Center is currently engaged in three different activities, which are Smart Organic Farming, Vermicomposting (worm composting), and IFOAM (International Federation of Organic Agriculture Movements)-standard composting. Smart Organic Farming will demonstrate a type of farming under environmental control for growing plants in EVAP (Evaporative Cooling) Systems. This system utilizes greenhouses, controlled temperatures, controlled lighting, and controlled organic fertilizers. The Vermiculture Center feeds worms with agricultural wastes from vegetable packing centers in Chiang Mai and turns the waste into high-value vermicompost and liquid vermicompost. The IFOAM composting Center makes high-quality compost that meets IFOAM standards using mushroom waste. Group transportation will leave the hotel at 8:00 a.m. and return to the hotel about noon.

### Mae Tha Sufficiency and Sustainable Community (Full Day)

🕒 8:00am - 5:00pm, Oct 6

📍 Mae Tha Sufficiency and Sustainable Community (Full Day)

This visit will include tours of family farms in a small, lovely valley to the southeast of Chiang Mai. This farming cooperative of several hundred families is a leader in northern Thailand related to natural farming practices

designed to revitalize their community, recover their ecology, and produce healthy food for families, neighbors and organic consumers in the city. Farmers will share about their sustainable agriculture ideas and practices, and the process of how they created a cooperative to aid in their community's development. Participants will also learn about how one generation is passing on the idea of sustainable agriculture and sustainable community development to the next generation. Group transportation will leave the hotel at 8:00 a.m. and return to the hotel in the late-afternoon.

#### **Green Manure Cover Cropping and Agroforestry (Full Day)**

🕒 8:00am - 5:00pm, Oct 6

📍 Pang Daeng Nai

Hilltribe farmers in the Pang Daeng Nai community (Chiang Dao district) have relay cropped green manure cover crops in field corn in their permanent hill fields for almost 35 years. Participants will visit fields in which lablab bean, rice bean, black bean, and peanut are being relay cropped with field corn. Additionally, agroforest plantings that incorporate indigenous forest crops (e.g. rattan, tea, bamboo, forest pepper, fishtail palm, wild perennial vegetables, etc.) along with common tropical orchard and field crops will also be visited. Finally, participants will have the chance to see home gardens, backyard animal production, and other backyard farming techniques. The tour will involve a moderately strenuous 2 km hike over hilly terrain. Appropriate footwear, possibly raingear, and water are recommended. A pack lunch will be provided. Group transportation will leave the hotel at 8:00 AM and return to the hotel in the late-afternoon.

#### **Coffee Production & Processing (Full Day)**

🕒 8:00am - 5:00pm, Oct 6

📍 Suan Lahu Coffee Farm

As a producer of organic highland coffee, Suan Lahu strives to bring the intricate culture of the Lahu people into the growing, processing, and slow-roasting of one of the best Arabica coffees in the region. Driven by the desire to see organic farming become a viable lifestyle in the highlands, the farm also endeavors to rehabilitate and preserve, through the sale of coffee, both natural and cultural resources in the area. Group transportation will leave the hotel at 8:00 AM and return to the hotel in the late-afternoon.

#### **Sustainable Farming and Earthen Buildings (Full Day)**

🕒 8:00am - 5:00pm, Oct 6

📍 Pun Pun Center

The Pun Pun Center for Self Reliance is a small organic farm and learning center in northern Thailand that practices sustainable living through seed saving, natural building, and appropriate technology. During this site visit, participants will see and experience how Pun Pun strives to find more ways to live a more self-reliant lifestyle by growing organic food, building their own natural homes, and experimenting with low-tech appropriate technologies. Especially important is their desire to bring back the tradition of seed saving among farmers and growers by collecting, propagating, and exchanging indigenous and rare varieties. Their overall purpose is to seek to live simply and continue to learn. Group transportation will leave the hotel at 8:00 AM and return to the hotel in the mid-afternoon.

#### **Preserving Local Heritage & Agricultural Practices (Half Day)**

🕒 8:00am - 12:00pm, Oct 6

📍 Nam Cham Community & Organic Farm

This tour will include visits to a small organic vegetable farm and an agritourism-based farm run by local community members in San Kampaeng. This community seeks to remind its neighbors that farming and agriculture related professions are admirable and can be profitable and sustainable too. Group transportation will leave the hotel at 8:00 AM and return to the hotel about noon.

#### **Agriculture, Chickens, and Backyard Gardening in a Peri-Urban Environment (Half Day)**

🕒 8:00am - 12:00pm, Oct 6

📍 Small Scale Urban Backyard

Participants on this site visit will see how a small backyard in a peri-urban setting can utilize sustainable agriculture practices to help increase self-reliance and create clean, healthy food. This tour will demonstrate chicken rearing that utilizes self-made silage feed, uses different methods to make IMO's (Indigenous Micro Organisms), and creates liquid fertilizers from chicken manure; see aquaponics and an IAVS (Integrated Aquaculture and Vegetable System); see no-till garden beds; see small-scale permaculture principles; and see raised wicking beds in action. Group transportation will leave the hotel at 8:00 AM and return to the hotel about noon.

#### **Maejo University Renewable Energy Center (Half-Day)**

🕒 8:00am - 12:00pm, Oct 6

📍 Maejo University Renewable Energy Center (Half-Day)

Built in 2016-2017, the Maejo University Renewable Energy Center focuses on research and demonstration in four different areas: ORC (Organic Rankine Cycle), Wind Turbines, Solar Ovens, and Biogas Digesters. The Rankine Cycle is an idealized thermodynamic cycle of a heat engine that converts heat into mechanical or electrical work while undergoing phase change. The heat is supplied externally to a closed loop, which usually uses water as the working fluid. The center also demonstrates how to produce electricity from various wind turbines, how to dry agricultural products with solar ovens, and researches and demonstrates various biogas systems. Tour participants will experience the center and some of its demonstrations and pilot projects. Group transportation will

leave the hotel at 8:00 AM and return to the hotel about noon.

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