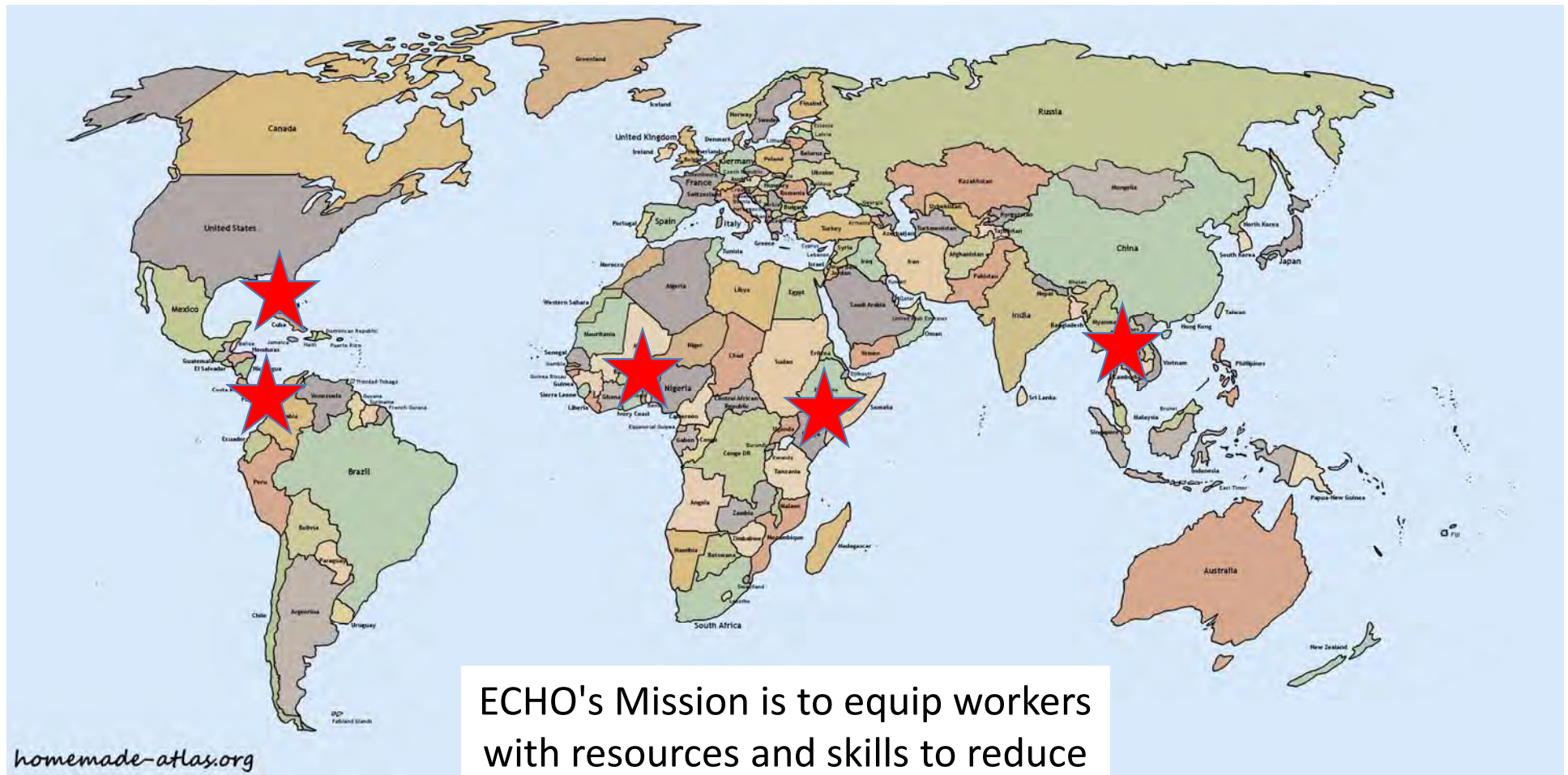


Introduction to the ECHO Asia Regional Impact Center and Its Services



By Abram J. Bicksler, Ph.D.
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www.echocommunity.org

ECHO's Offices



ECHO's Mission is to equip workers with resources and skills to reduce hunger and improve the lives of the poor and smallholders

Our Focus Area



ECHO's Hunger/Poverty Alleviation Approach



Networking Practical Innovations

A Few Areas in Which ECHO Works

- Sustainable Agriculture
- Community Development
- Water and sanitation
- Urban and Community Gardening
- Alternative and Renewable Energy
- Appropriate Technology
- Participatory Approaches
- Seed Saving and Banking
- Creation Care and the Environment
- Coffee

ECHO Asia Partners



**International Relief and Development NGOs (INGOs),
Academics, Churches, and Agricultural Missionaries**

ECHO Asia Partners



**MBC Christian Social Service Development Department
Myanmar**



Pun Pun Farm - Thailand



Wholistic Development Organization - Cambodia



NEICORD - India

Regional NGOs

ECHO Asia Partners



Representatives of Vietnam's Thai
Nguyen University



MOU signing between ECHO Asia
Regional Office and Mae Jo University

**Regional Governmental Organizations,
Universities and Other Institutions**

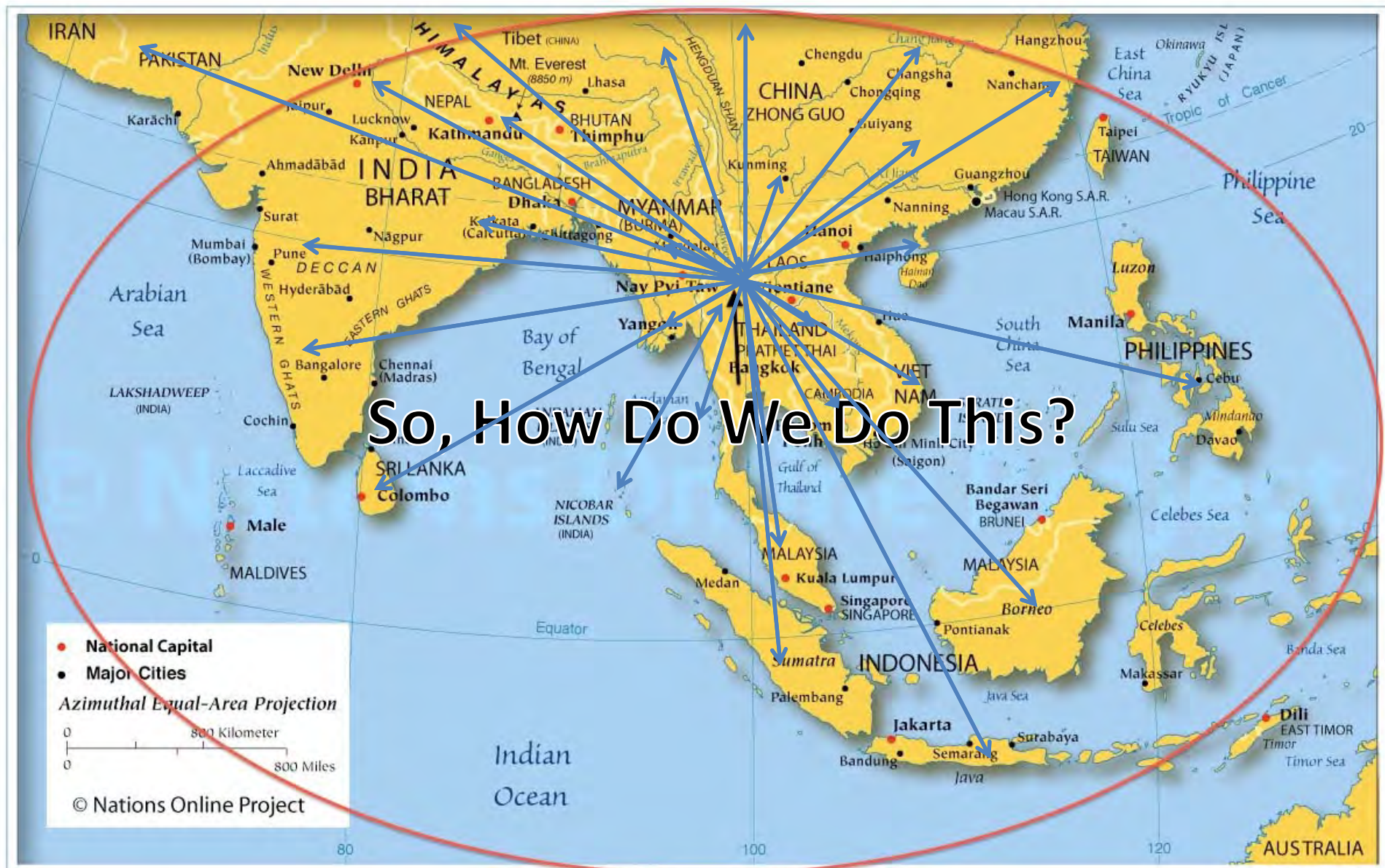
ECHO Asia Partners



Regional Farmers: Our Innovators and Teachers

We work through our network partners. Our goal: to empower our network members to advance food security and sustainable livelihoods among the poor and smallholders





ECHO Asia Services

The screenshot shows the ECHOcommunity.org website. The header includes the ECHOcommunity logo, a search bar with the text "cabbage root maggot organic control", and links for "Contact Us" and "Member Options". Below the header is a navigation menu with categories: "Resources:", "By Region", "Plants & Seeds", "By Technology or Technique", "By Publication", "Education & Events", and "Research". A red circle highlights the "English | Change Language" link in the top right corner.

Blog Update: ECHO Research
The ECHO Research blog highlights ongoing research done by ECHO and network members around the world. Subscribe to the blog to stay up-to-date on new and interesting discoveries. This week, Dr. Motis writes about lessons learned in: Weed Suppression Options---Legumes and Guinea Hogs
[More Information](#)

ECHOcommunity Updates

ECHO Development Notes #126 Now Available 2015-02-04

Excerpt: Bicycle Pump Vacuum Sealer for Seed Storage

Storing seeds in the tropics can often be difficult; with high temperatures and humid conditions, seeds lose their ability to germinate quickly. Many techniques for seed storage exist, from the high-tech standards of gene banks to simple methods used by villagers for saving their own seeds. All have their strengths and weaknesses, but when balancing costs and resources, which methods are really the most effective? This article highlights research conducted by ECHO Asia regarding the use of vacuum sealing, using a simple bicycle tire pump, for tropical seed storage under resource-constrained settings.

The three key factors that determine the rate of seed deterioration in storage are: oxygen pressure (amount of oxygen with the seeds in storage), seed moisture content, and temperature (Roberts, 1973). An increase in any of these factors will lower the storage life of the seeds, and as a general rule any increase of 1% moisture content or 10°F (5.6°C) in storage will halve the storage life of the seeds.

SIGN IN

Username
Password
☐ Remember me
[Sign in to ECHOcommunity](#)
[Forgot your password](#)
[Register](#)

CALENDAR [MORE]

- 2015-03-03 » 2015-03-06
ECHO Asia Indonesia Sustainable Agriculture Workshop
- 2015-03-08 » 2015-03-14
Training Seminar in Natural Medicine
- 2015-03-23 » 2015-03-27
ECHO West Africa Anglophone Forum 2015
- 2015-04-19 » 2015-05-02
Permaculture Design Certification Course

www.ECHOcommunity.org

ECHO Asia Services

Dear friends:

Where can I obtain a local bamboo that's called mai ruak?

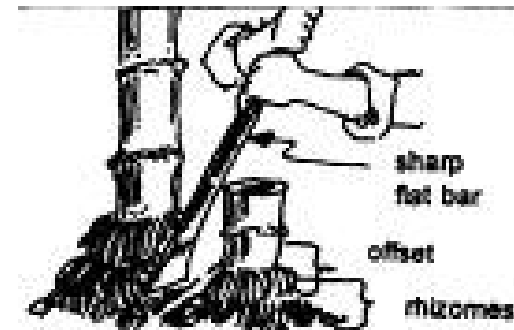
Phil

Dear Phil,

The mai ruak (or mai huak) you're referring to, *Thyrsostachys siamensis*, also known as umbrella bamboo, is very common. It's found planted all over the countryside for pole production. It's also pretty easy to establish (I believe by removing and planting offsets from the main clump - see image below). I've heard local farmers say that best time to often remove and plant offsets is late dry season (April).

Whether transplanted to plant beds, large seedling bags or directly into the field, the offsets will need to be well watered until the offset begins producing shoots and develop viable root systems to support the plants.

I hope this helps!



Technical Services

ECHO Asia Services



Thai

Burmese

Bahasa Indonesian

Mandarin

Khmer

English

Vietnamese

Hindi

វារីអគ្គីសនីតូចតាមទៅប្រទេស គម្រា និច្ច័ថ

ដោយ: លោក វិក ប៊ុនឆេតី នាយកកិច្ចការនយោបាយអគ្គប្រចាំស្ថាប័ន

កំពង់ច័ន្ទ ភ្នំពេញ សាលាសហគមន៍ស្នាក់នៅ ភូមិស្នាក់នៅ រោងជាងសាលាស៊ី ភ្នំពេញ, សាលា, អាគារ,
បណ្ណាល័យ និងក្រុមប្រឹក្សាភិបាលស្ថាប័នផ្សេងៗទៀត។ ការប្រកាសនេះផ្តល់ឱកាសឱ្យស្ថាប័ន មេត្តាអភិវឌ្ឍន៍
ជាមួយភ្នាក់ងារសម្រាប់មិនមែនស្ថាប័ន និងគ្រាន់តែអាចប្តូរជាជនរដ្ឋសម្រាប់មិនមែនស្ថាប័ន បានប្រើប្រាស់បណ្ណាល័យ
អគ្គិសនីប្រចាំថ្ងៃ។



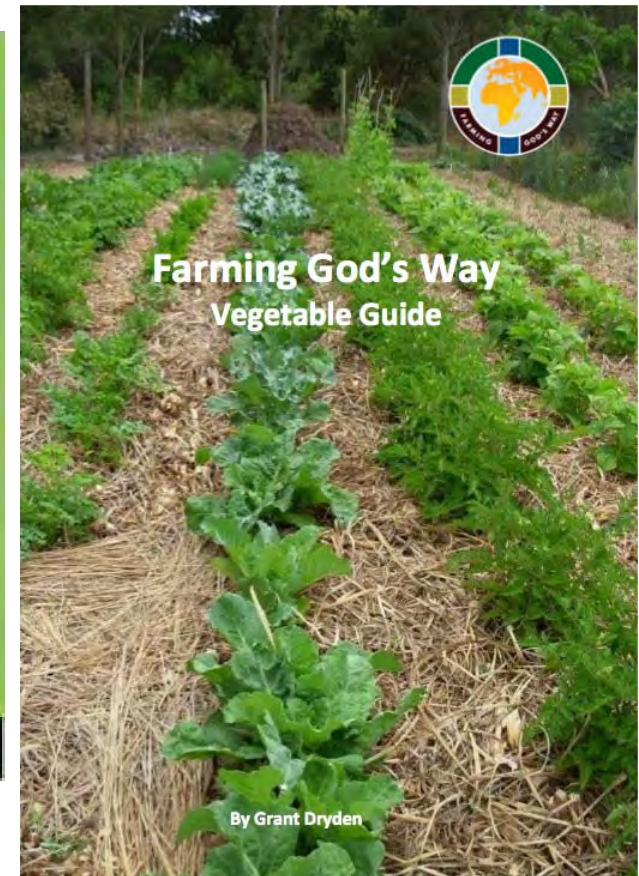
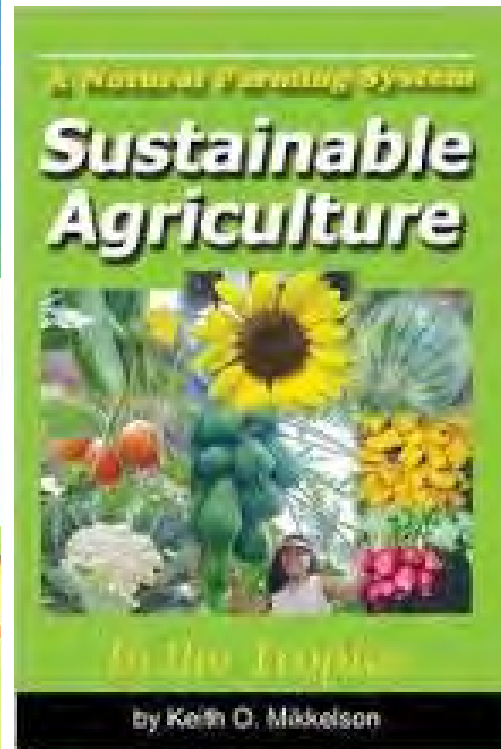
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 សិនធិនីតូចតូច ក៏ដូចជា ស្រាប់បែកបាត់នូវការ
 ផ្គត់ផ្គង់អាហារប្រចាំថ្ងៃ ។ ម៉ាស៊ីនប្រើប្រាស់
 នៃម៉ាស៊ីនប្រើប្រាស់សាងសង់ ២០ ប្រើប្រាស់ផ្ទះ
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 ស្រីប្រើប្រាស់បង្កើតអាហារប្រចាំថ្ងៃ ៥ ក៏ដូចជា
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ម៉ាស៊ីនស្រោចនិងការបោសសម្អាត ដោយមានកម្លាំងប៉ាវពេល ៣០ អង្ករ ដល់ ៤៥០ អង្ករក្នុង
១ម៉ឺនី អាចប្រើប្រាស់បានក្នុងដំណើរបរិក្ខណៈ ហើយម៉ាស៊ីនស្រោចនិងយន្តបូមក្នុងការប្រើប្រាស់
យ៉ាងណាក៏ប្រសើរជាងគ្នាជាម៉ាស៊ីនប្រើប្រាស់ប្រភេទផ្សេងៗទៀតដែលមានតម្លៃថោកជាងគេបំផុត
ក្នុង ប្រទេស។ ដើម្បីការពារការខូចខាតកម្លាំងប៉ាវពេលប្រើប្រាស់



ECHO Asia Notes Currently in Eight Languages

ECHO Asia Services



Assistance in Finding and Accessing Needed Technical Resources

ECHO Asia Services



2009, 2011, 2013, 2015

ECHO Asia

Agriculture and Community

Development Conference

Next Conference: October 3-6, 2017,

Chiang Mai

~\$200 with meals and lodging

Limited scholarships available!

Educational and Networking Events

198 Participants from 20 Countries



ECHO Asia Services



Seed Swap – 2013 Philippines Tropical Ag Workshop

Coming UP:
-Kathmandu
May 2017
-Baguio
Feb 2018



Ag and Comm Dev WS – 2016 Pyin Oo Lwin



Group Picture- MBC Yangon Workshop 2012



Seed Banking Workshop– 2015 NE Cambodia

National and regional agriculture and community development meetings

Educational and Networking Events

Networking Events



Northwest Myanmar Agriculture and Community Development Workshop

February 7 – 10, 2017

In Kalay Myo of the Sagaing Region of Myanmar

ECHO Asia, in conjunction with the CSSDD of the Myanmar Baptist Convention, will be conducting a Northwest Myanmar Agriculture and Community Development Workshop from February 7-10, 2017, in Kalay Myo of the Sagaing Region of Myanmar. Anyone working in agriculture and community development is welcome and encouraged to attend, and topics covered will be broad and applicable to communities throughout Myanmar and presented in both Burmese and English. For more information and to register, please contact the CSSDD at Myanmar Baptist Convention, 143 Minyekyawswa Road, Lanmadaw, Yangon 11131, Republic of the Union of Myanmar tel. 01-212502, email: mbc.cssdd@gmail.com (for Myanmar nationals) or echoasia@echonet.org or register at www.ECHOcommunity.org (for expats).



For more information please contact:

ECHO Asia Impact Center 270/5 Tung Hotel Soi 6, Wat Gate, Muang,
Chiang Mai, THAILAND. Tel: +66 53 304 028

E-mail: echoasia@echonet.org or register at www.ECHOcommunity.org

Nepal

Agriculture and Community Development Workshop

May 22 - 24, 2017

Annandaban Training Facility
Kathmandu, Nepal

ECHO Asia, in partnership with the **Medical Teams International** and **Shanti Nepal**, is pleased to offer this valuable training in May 2017! Some of the 12 topics presented may include:

- **Neglected and Underutilized Species (NUS)**
- **Climate-Change Adapted Agriculture with a Focus on Green Manure Cover Crops**
- **Seed Banking and Seed Saving**

Registration fee is USD75. Fee includes 2 days of training, 1 day of site visits, 2 coffee breaks, and light breakfast and lunch. Accommodations *not* included.

Presented in both **Nepali** and **English**.



For more info or to register visit:
ECHOcommunity.org

ECHO Asia Services



Site visits and tours for agricultural development workers

Educational and Networking Events

ECHO Asia Services



Northern Thailand - 2011



Southeast Cambodia - 2011



Indonesia - 2015



Pyin oo Lwin - 2016

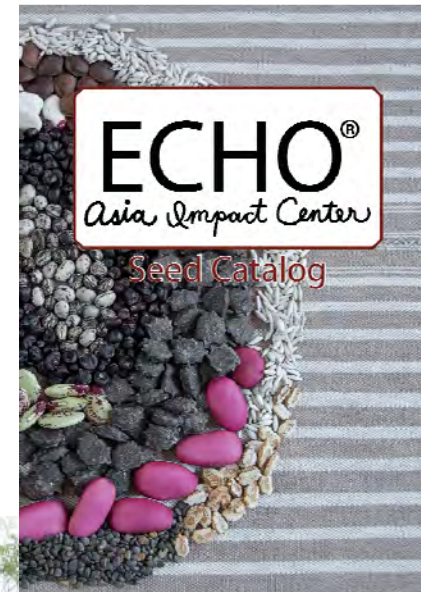
Regional Seed Exchange Events

ECHO Asia Services



Professional Consulting for Regional NGOs and Missions Organizations

ECHO Asia Services



**Seed Bank-
Now
Offering
170
Varieties**



Seed Production Plots



**Membership is free
and members
receive 10 free
sample
packets/year**



ECHO Asia Services



**Internships and
Volunteer Positions
for Nationals and
Westerners**



Take-Away Message

- Membership is Free! Get connected to 2600+ regional members and 11,500 global members
- Sign up as “Development Worker” on **www.echocommunity.org**
- Elect to receive **ECHO Asia Notes** and **ECHO Asia News in English or Hindi**
- Receive 10 free packets of seeds/year
- **abicksler@echonet.org**
- **echoasia@echonet.org**