

Rural Training Center-Thailand

## 2009 Apr-May RTC-TH Update

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Community-based environmental education for the self-sufficiency and sustainability of small rural family farms

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## Happy Songkran Festival



Water splashing cools folks off in the hot season.

the elderly or parents with little children passed by on foot or motor-bike, the water bearers would lighten

fight.

up and sprinkle them gently with water from their fingers rather than the hose.

Some families load a barrel of water on their pick-up truck and go cruising the streets. Others set up shop in front of their drive way. It's all fun and games. The mobile and the roadsiders anxiously await the proper time to unleash as much water in the shortest time to soak each other.

You can readily know the "hot spots" for soaking by seeing how wet the pavement is in front of the various houses. This is obviously NOT the time to be on a motorbike carrying Important papers in an envelope!

As we drove about on errands, it was funny to see the road side splashers get excited at our approach...only to be let down when finding no riders in the back of our pick-up truck. Others would throw water at the truck anyway, and the heavy hitters really let loose a deluge. The stark contrast to California's water shortages makes us to think about water conservation.



Traditional Thai New Year is in April. It is the end of the hot season. Water splashing has it origins in the washing of Buddha statues at temples. The wash water was collected and deemed to be blessed. So splashing this water on people was a way of giving them blessings and good luck. Today, it's more like a community-wide free for all water

However, civility seems key to it all. Ardent splashers were armed with buckets and hoses

awaiting passers-by. Yet when

Mobile water warriors resting at a wayside.

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### Community-based environmental education for the self-sufficiency and sustainability of small rural family farms

Paying Respect to Elders



A spirit ceremony opens the event.

who remember their teachers and return to do something good for their school. This year, a huge fundraising took place to buy new computers for the school. Garlands are sold and the buyer gets to put them around the neck of dancers on a stage. Of course, water splashing is the order of the day.

Live music, student group performances, and various contests added to the festivities. Food was prepared by village volunteers.



During Songkran many former students returned to Ban Na Fa Elementary School to pay respect to their teachers. The event opens with a spirit ceremony and is followed by people expressing gratitude and good tidings on the school leaders and faculty.

Provincial education officials were in attendance as well as leaders from other nearby schools. Alumni 40 years and older participated along with students who graduated last year.

In Thailand, "good students" are those



Our own Aoi heads up the garland sales team!



The event was a rousing success! The alumni organizers raised 70,000 THB for their new computer purchase goal. This was much more than most had imagined they might be able to raise. It all goes to show what can happen with community-based efforts and support of education in their local school.

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Horses on the farm provide free manure and are also mosquito decoys and arbovirus dead-end hosts.

could be "mosquito decoys" for us, too.

Our grassy, organic pasture was a main draw for the pregnant mares. This arrangement gives us the benefits of good quality manure without the expense of buying and caring for the horses. It is a fairly low labor activity for us. The horse owner sets up an electric fence so the horses won't get into the crops. He makes almost daily visits to check on the animals. We have no real costs or responsibilities for their health.

### Horses on the Farm

A friend with horses contacted us about boarding his pregnant mares on our farm. An arrangement was worked out for him to pay a monthly fee. In addition to the extra cash, we get all the horse manure. An added benefit is that horses are considered to be "dead end" hosts for mosquitoborne arboviruses. Since they are larger than humans the mosquitoes may encounter the horses more often than us. So the horses



horses make use of the former cow pen

The horse convert grass into manure. The manure is used in our vegetable gardens to add nutrients to the soil. This is a form of recycling energy on the arm. Tropical soils often lack organics.



It is easy to collect the manure for the garden beds located near the farm house.



A healthy colt is a pleasing result for everyone!

# Fish Pond Excavation Work Begins

Excavation work began to repair and deepen the West and Central fish ponds. Over the years, sediments shallowed the ponds from 2 m to 1 m. We had a number of other concerns: repairing the overflow drains, increasing rain water harvesting capacity, and stocking new types of fish. In light of these concerns, we decided to deepen these two ponds from 2m to 4 m.



Draining the Central pond to flood the rice paddies.



We lost coconut trees in the process of widening berms.



Central pond completed with new overflow drains.



Deepening the West fish pond begins.



Removing sediment and deeping the Central pond.



The renovated Central pond deepened to 4 m.



Excavated soil used to level the area near the farmhouse.

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# RTC-TH Electric Vehicle Project

The RTC-TH has engaged C-FEE (Clean Fuel Energy Enterprise, Co. Ltd., Thailand) to modify their existing Super Jaab model all electric vehicle with a matching trailer.

The goal of the EVP (Electric Vehicle Project) is to expand the RTC-TH I.F.S. (Independent Fuel Systems) program and to support our fledgling amateur radio EmComm (Emergency Communications) effort.



We plan to use off the Super Jaab in our renewable energy transportation and EmComm efforts





The all electric power supply makes it ideal as an alternative fuel vehicle especially when we use Jatropha to make our own electricity. In an emergency, this might be another source of power for EmComm radios.



Charging unit uses normal household current.



Air Marshall Morakot Chansumruard (Ret.), the head of C-FEE with Greg and Saifon Lee following discussion and agreement on the RTC-TH Electric Vehicle Project.

An electric vehicle also fits into the RTC-TH alternate energy plans to use Jatropha SVO to produce electricity on the farm. When this occurs, the RTC-TH would make its own electricity to recharge the electric vehicle and EmComm radio batteries.

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Community Preparedness

## Weather Observations: Classroom to Farm to Community Service

Floods, landslides, and severe weather are among the primary sources of disasters in Nan Province. They are a fact of life and recur especially during the wet monsoon rainy season here. Self-sufficient and sustainable farms need to endure and get past these "speed bumps" in life. The RTC-TH has a comprehensive overview of selfsufficiency and sustainability spanning individual, family, and community levels. Here is an example of the comprehensive integration of RTC-TH programs.

Weather observation lessons started as a series to supplement the NASA CERES S'COOL (Student Cloud Observation On-Line) project we introduced at Ban Na Fa Elementary School. This groomed young students to take the lessons home for use on the family farm. The idea was to make school lessons connect to the real world. This empowers students to become active participants applying academics to the family farm.

The S'COOL lessons were modified for use in GROW (Getting Real On-farm Weather). GROW trains farmers to monitor local weather (measured on their farm as opposed to using government weather station data). The lessons include instructions to make some low-cost weather equipment. The lessons are geared toward the systematic farm management of soil erosion, soil moisture, water resources (especially rainwater harvesting).

We are novices when it comes to amateur radio and Emergency Communications. But weather data from the disaster area can be important in relief planning and operations. So as part of our commitment to sustaining the community, the S'COOL and GROW lessons were combined and evolved into MEWS (Mobile Emergency Weather Station). An emphasis was put on helicopter flight weather data. In many disasters, helicopters are an important aviation asset in relief work.









The MEWS weather observation form is a single sheet, double-sided form. Brief notes make the form a self-guided instruction sheet. With almost no training, basic observations on temperature, wind, and rain data can be recorded. With minimal training, a more complete weather report can be given to help relief planners and helicopter flight crews.

Other related lessons in the works will prepare amateur radio EmComm operators to pre-scout helicopter landing zones and prepare local geohazards maps. Advanced preparations such as these aid local disaster planners.

As with all RTC-TH materials, the information and training are available for little or no costs. These include how to make weather equipment with off-theshelf materials. This means trainees can be ready to go guickly.