

## MODULE SEED LONGIVITY, DRYING AND STORAGE

2-7 NOVEMBER 2015

BANGKOK, THAILAND

### OVERVIEW AND AIM OF THE MODULE

The moisture level of seeds is very much influenced by the relative humidity of the surrounding environment. Less well known is that also the seed physiology and temperature also play a role. When harvesting seeds, drying, giving moist seed treatments and during storage; it is very important to keep track on all these factors.

This module will assess the existing technologies and introduce newer systems as well. Practical sessions will ensure the total understanding of drying systems and their relation to the physiology of the seeds.

### DEMONSTRATION AND PRACTICAL

Participants will be involved in demonstrations, practical and discussion. Theoretical aspects that will be addressed. This module will provide a deeper insight in seed longevity, drying and storage.

### WHO SHOULD PARTICIPATE?

Everyone who is a professional seeds men can apply, a minimum knowledge on seed is however a must and a minimum understanding on seed technology is an advantage. The course is given in English, a decent understanding in English is necessary in order to follow the course. Participants may be affiliated with industry, research institutes, seed quality laboratories, universities and other governmental institutions.

### LECTURERS

Dr. Steven P.C. Groot, Wageningen UR, The Netherlands  
Ir. Johan Van Asbrouck, Rhino Research Group, Thailand  
Dr. Kent Bradford, UC Davis, USA

### ENROLLMENT

The module fee is \$2,600. The fee including tuition fee, Lodging 5 nights (1-6 November 2015), food costs, course materials and use of equipment and consumables during the course. The fee excluding board and travel to and from Bangkok, Thailand. The participants will be accommodated in a hotel which will be booked by the organizer.

### APPLICATIONS

Early registration is advised since the number of participants is limited to a maximum of 16 and first come first served basis will be apply.

The registration fee must be made before 1 October 2015. Minimum participants have to registered otherwise the course will be delayed.

Registration can be done through an email to [info@seedacademy.org](mailto:info@seedacademy.org) or by fax + 66 2 531 2570

*"Tell me and I forget  
Show me and I may remember  
Involve me and I understand."*

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TENTATIVE MODULE

### DAY 1: MONDAY 2 NOVEMBER 2015

- Introduction of the course, official opening
- Introduction
- Intro participants and questions or needs
- Seed development
- Seed moisture meters, water activity, RH, datalogger setup
- Start seed drying above silica gel and drying beads
- Wrap up and discussion

### DAY 2: TUESDAY 3 NOVEMBER 2015

- Type of damage, protection and repair
- Storage RH and temperature
- Role of oxygen in seed ageing
- Aging methods
- Calculation methods to analyses damage
- Cromartie equation
- Rate of RH equilibration
- Wrap up and discussion

### DAY 3: WEDNESDAY 4 NOVEMBER 2015

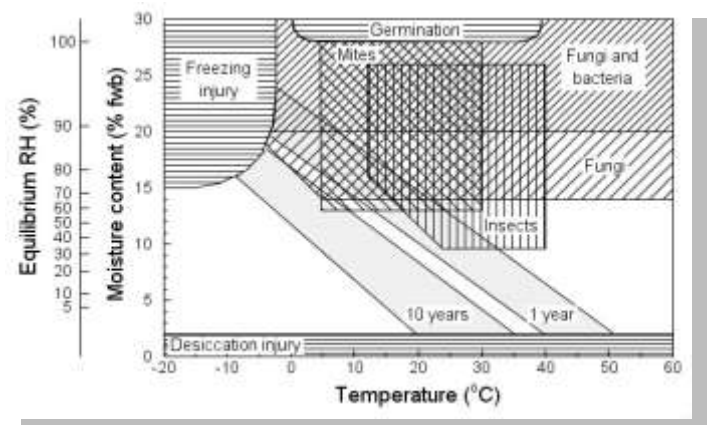
- Drying methods
- Fast / slow drying and physiology
- Develop a drying schedule
- Invigoration methods
- Analysis seed maturity equipment for drying
- Drying plan
- Saturated salt solution
- Drying rate with beads and silica gel
- Wrap up and discussion

### DAY 4: THURSDAY 5 NOVEMBER 2015

- Storage containers
- Bulk storage, insects and molds
- Species and genetic variation
- Recalcitrant seeds
- Start ethanol assay
- Calculating viability, seed survival, seed behavior
- Wrap up and discussion

### DAY 5: FRIDAY 6 NOVEMBER 2015

- Practical questions
- All round overview and general discussion
- Preview next ISA seed captain modules
- Evaluation
- Official closing



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### REGISTRATION FORM

<b>Company</b>			
<b>Mr./Ms./Mrs.</b>			
<b>First name</b>			
<b>Last name</b>			
<b>Position</b>			
<b>Address</b>			
<b>Email address</b>			
<b>Telephone number</b>		<b>Fax number</b>	
<b>Area of expertise</b>			

<b>Billing Address</b>			
<b>VAT Number</b>			
<b>Date of payment</b>			

<b>Request for single room</b> (small surcharge will apply)			
<b>Meals</b> (Vegetarian/Non vegetarian)			
<b>Date of Arrival</b>		<b>Date of Departure</b>	