

MODULE SEED PRIMING, DORMANCY & ENHANCEMENT

2-7 NOVEMBER 2015

BANGKOK, THAILAND

OVERVIEW AND AIM OF THE MODULE

Improvement of germination by conditioning (priming) of seeds in water or osmotics has been known of many years. Primed seeds can germinate faster, more uniform and under a broader range of environmental conditions than the non-primed ones, but shelf life may be reduced. Therefore skilled staff is needed to maximize the advantage of this technology.

DEMONSTRATION AND PRACTICAL

Participants will be involved in demonstrations, practical and discussion. Theoretical aspects that will be addressed: Aim of seed priming, Priming methods, Physiological processes, Drying after priming, Storability, Economic factor, etc. This module will provide a deeper insight in seed priming, an important physiological enhancement method and its relation to seed germination and seed dormancy breakage. Theory and practicum will combine basic as well as some advanced technologies in seed priming. Types of priming controlling methods used for seed conditioning, in order to accelerate the rate of germination and to improve seedling uniformity, will be described in details. Processes happening in the seed will be discussed on the physiological and molecular level.

WHO SHOULD PARTICIPATE?

Everyone who is a professional seeds men can apply, a minimum knowledge on seeds 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. Henk WM Hilhorst, Wageningen UR, The Netherlands

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 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
- Lecture 1 – Introductory overview of hydration treatments
- Intro participants and questions or needs
- Seed priming practicum 1- Hands-on training and demonstration; building priming device
- Wrap up and discussion

DAY 2: TUESDAY 3 NOVEMBER 2015

- Lecture 2- Quality processes
- Lecture 3- Quality assessment, methods and metrics
- Lecture 4- Seed biology
- Seed priming practicum 2- Hands on training and demonstration; Q2, ethanol and priming
- Seed priming practicum 3- Hands on training and demonstration; drum priming
- Seed priming practicum 4- Hands on training and demonstration; calculation of osmotic solution
- Wrap up and discussion

DAY 3: WEDNESDAY 4 NOVEMBER 2015

- Lecture 5- Commercial production technology system
- Lecture 6- Seed biology II
- Lecture 7- Drying technologies
- Seed priming practicum 5- Hands on training and demonstration; Osmotic priming
- Discussion – Priming methods
- Discussion – Literature and internet search
- Wrap up and discussion

DAY 4: THURSDAY 5 NOVEMBER 2015

- Lecture 8- Agro / economic case for priming
- Lecture 9- Seed biology III
- Lecture 10- Technology adoption and commercial considerations
- Seed priming practicum 6- Hands-on training and demonstration; calculation economic potential
- Discussion – What if priming by third party?
- Discussion – Repeatability and protocols

DAY 5: FRIDAY 6 NOVEMBER 2015

- Lecture 11 – Crop case studies: lettuce and sugar beat
- Discussion – Results of priming tests
- Final discussion and answers to questions / needs
- Official closing



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REGISTRATION FORM

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

Billing Address			
VAT Number			
Date of payment			

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