



plantfoodsec.eu

PLANT AND FOOD BIOSECURITY

SUMMER SCHOOL ON FUSARIUM AND MYCOTOXINS

JULY 6th - 11th, JULY

THIS COURSE IS BEING OFFERED AS PART OF THE EU FUNDED NETWORK PLANT AND FOOD BIOSECURITY

NB IT WILL BE POSSIBLE TO COME FOR JUST DAY 2

THE FIVE-DAY COURSE WILL INCLUDE

A day on Fusarium ear blight of winter wheat, with an inoculated trial showing symptoms caused by the different pathogens, cultivar evaluation, pathogen diagnostics

A day on regulations for mycotoxins, sampling and rapid test methods – especially those linked to Fusarium.

The practical sessions will be combined with lectures and discussion sessions providing background for the practical sessions and other relevant topics.

The course will be held at FERA Science Ltd, Sand Hutton, York, UK.

REGISTRATION

To register for this course please contact: Christine Henry at Christine.Henry@fera.co.uk
Delegates must register and pay the registration fee of £50 per person by 19th June 2015.

DAY	TIME SLOT	TOPIC	PRESENTER
DAY 1 MONDAY 6 th JULY	13.00	Registration Introduction to project , agenda and trainers	
	13.30	Introduction to mycotoxins	Susan MacDonald
	14.30	Coffee break	
	15.00	Mycotoxins legislation – regulations	Sharron Anderson
	16.30-17.00	Discussion/wash up	
DAY 2 TUESDAY 7 th JULY	09.30	Winter wheat <ul style="list-style-type: none"> • Introduction to Fusarium head blight (FHB) • Monitoring pathogens and chemotypes • FHB pathogens • Chemotypes 	Phil Jennings

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DAY	TIME SLOT	TOPIC	PRESENTER
DAY 2 TUESDAY 7 th JULY	10.30	Coffee break	
	11.00	Plot visit to look at symptoms <ul style="list-style-type: none"> • Risk (weather and agronomy) • Control (fungicides and plant resistance) 	Phil Jennings
	12:30	Lunch break	
	13.30	Review of maize crop in EU Fusarium in maize – symptoms/epidemiology stalk and cob Review of work in EU UK information – incidence, species, cultivar effects, mycotoxin levels	Jane Thomas
	14.30	Coffee break	
	15.00	Differentiation of Fusarium species in small grains, maize as well as vegetables and fruits – consequences for mycotoxin contaminations: mycotoxins from different species and not yet as toxins described secondary products of Fusaria – a case study oriented at Fusarium proliferatum in Allium species.	Heinz Dehne
	16.30-17.00	Finish/wash up	
DAY 3 WEDNESDAY 8 th JULY	9.30	Sampling	Sharron Anderson
	10.30	Coffee break	



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DAY	TIME SLOT	TOPIC	PRESENTER
	11.00	Analytical methods: principles, performance, choices - pros and cons of different methods	Susan MacDonald
	12.30	Lunch break	
	13.30	Report on multi-mycotoxin analysis in cereals and other plants – problems arising from matrix effects, the LC-MS-MS methods – advantages and chances vs. problems arising from these technologies.	Heinz Dehne
	15.30	Coffee break	
	16.00	Proficiency Testing	Mark Sykes
	17.00-17.30	Finish/wash up	
DAY 4 THURSDAY 9 th JULY	9.30	Lecture / practical on Screening methods – different technologies, hands on practice using LFD style kits on their own (visual) and with a reader.	Susan MacDonald Richard Fielder (BioCheck)
	11.00	Coffee break	
	11.30	Lecture / practical on Screening methods – different technologies, hands on practice using LFD style kits on their own (visual) and with a reader. Contd.	

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DAY	TIME SLOT	TOPIC	PRESENTER
	12.30	Lunch break	
	13.30	LC-MS methods (Fera) NRL /OCL control network, RASFF, etc	Joanna Stratton Monika Sehnalova
	15.00	Coffee break	
	15.30 – 16.30	Identification-Novel methods	James Woodhall
	16.30-17.00	Finish/wash up	
DAY 5 FRIDAY 10 th JULY	9.30	Lecture on quality (QC, accreditation, standardisation)	Susan MacDonald Sharron Anderson
	10.30	Coffee break	
	11.00	Tour of lab LC-MS/MS suite / Plant Health Clinic	Susan MacDonald Sharron Anderson Phil Jennings
	12:00	Wash up and discussion of results	Susan MacDonald Phil Jennings Sharron Anderson
	12:30	Course ends	