



Programme

International Summer School 2019

Protecting the Forest Resource: Risk assessment and Management using Innovative Tools



Waterford Institute of Technology

Waterford, Ireland: 24 – 28th June 2019

For all enquiries, please send an email to [claudia.antoniotti @ efi.int](mailto:claudia.antoniotti@efi.int)



PROGRAMME OVERVIEW

Sunday, 23/06/19	Evening	Arrival: Bus from Dublin airport at 20:00
Monday, 24/06/19	Morning	Field Visit: Forests showing impact of different hazards
	Afternoon	Group Work: Discussions based on field visit
Tuesday, 25/06/19 <i>Open seminars</i>	Morning	Talks on risk tools developed in the PLURIFOR project
	Afternoon	Talks on forest risk tools
Wednesday, 26/06/19	All Day	Visit to JFK arboretum: Collect field data and test tools
Thursday, 27/06/19	Morning	Laboratory: Using tools with field data
	Afternoon	Laboratory: Using tools with field data
Friday, 28/06/19	Morning	Talks: Mitigating risk and crisis management
	Afternoon	Group Work: Scenario testing, crisis management, group presentations Depart: Bus to Dublin airport at 13:30



Photo: Nick McCarthy (WIT)

DETAILED PROGRAMME

Sunday, June 23, 2019		
Afternoon	Arrival: Free bus in evening at 20:00 from Dublin airport to Waterford.	
Dinner (own plans)		
Monday, June 24, 2019		
Morning Depart 08:00 Return 13:00	Field Visit: Site visit to forests affected by serious disturbance (e.g. fire, soil erosion, wind damage, deer browsing, pests and diseases)	Coillte Field Staff + Tutors (see afternoon)
Lunch 1300-14:00. WIT Canteen		
Afternoon 14:00-18:00	Group Work: Collective and team discussions on issues related to the site visit. Participants will identify problems from the field site and discuss how to deal with them. They will be provided with site maps and asked to develop management plans including the risks identified in the site visit.	Dr. Nick McCarthy (WIT) Dr. Barry Gardiner (EFI) Mr. Mike Power (Coillte) Dr. Juan Suarez (FR) Ing. J. Christophe Orazio (EFI) Mr. John Casey (Teagasc) Dr. Nahia Gartzia Bengoetxea (Neiker) Alex Held MSc (EFI Bonn) Mr. Ciaran Nugent (Forest Service Ireland) Prof. Stephen Woodward (Univ. of Aberdeen) Prof. Tugba Dogmus (Suleyman Demirel Univ)
Dinner	Summer School Banquet	
Tuesday, June 25, 2019		
8:30-8:40	Welcome to Summer School: Dr. Nicholas McCarthy (WIT)	
8:40-9:00	Opening of Summer School: Mr. Fergus Moore (DAFM, Ireland)	
Morning 9:00-12:00 Open for day attendees	Lectures: Talks on risk tools developed in the PLURIFOR project <ul style="list-style-type: none"> • SILVALERT: Ing. J. Christophe Orazio (EFI PLANT) • Fuel maps with LiDAR data and assessing defoliation with UAVs: Dr. Sandra Sánchez (CETEMAS) • Modelling wind risk in mixed stands: Dr. Barry Gardiner (EFI PLANT) • Forest soil disturbance monitoring protocol: Dr. Nahia Gartzia Bengoetxea (Neiker) • Detection of emerging pests in south-west Europe: Dr. Ing. Hervé Jactel (INRA) 	
Lunch 1200-13:30. WIT Canteen		
Afternoon 13:30-17:00 Open for day attendees	Lectures: Talks on forest risk tools <ul style="list-style-type: none"> • Wind damage risk modelling in Ireland: Dr. Aine Ni Dhubhain (UCD) • Fire risk prediction tools: Mr. Alex Held MSc(EFI Bonn)/Mr. Ciaran Nugent (Forest Service) • Deer impact assessment methodology: Dr. Helen Armstrong (Broomhill Ecology) and Mr. Ciaran Nugent (Forest Service) • Chalara outbreak in Ireland: Mr. Tom Houlihan (Teagasc)/ Mr. Tom Mc Donald (DAFM) • Detection of alien invasive pathogens: Prof. Stephen Woodward (Univ. of Aberdeen) and Prof. Tugba Dogmus (Suleyman Demirel Univ.) 	
Dinner	Own plans	

Summer School: Protecting the Forest Resource

Wednesday, June 26, 2019

Morning 8:00-12:00	<p>Field Work: Visit to JFK arboretum at Ballysop to collect field data and test tools</p> <ul style="list-style-type: none"> • SILVALERT • ForestGALES • Deer impact assessment • Fire risk assessment • Drone flights for assessment of forest damage • Identification of pathogens 	<p>Dr. Nick McCarthy (WIT) Michael Pedini (WIT) Dr. Barry Gardiner (EFI) Mr. John Casey (Teagasc) Ing. J. Christophe Orazio (EFI) Dr. Helen Armstrong (Broomhill Ecology) Mr. Alex Held MSc (EFI Bonn) Mr. Ciaran Nugent (Forest Service Ireland) Dr. Sandra Sánchez (CETEMAS) Dr. Ing. Hervé Jactel (INRA) Prof. Stephen Woodward (Univ. of Aberdeen) Prof. Tugba Dogmus (Suleyman Demirel Univ)</p>
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Lunch 12:00-13:00. Picnic lunch

Afternoon 13:00-17:00	<p>Field Work: Visit to JFK arboretum at Ballysop to collect field data and test tools</p> <ul style="list-style-type: none"> • SILVALERT • ForestGALES • Deer impact assessment • Fire risk assessment • Drone flight demonstration • Identification of pathogens 	<p>Dr. Nick McCarthy (WIT) Michael Pedini (WIT) Dr. Barry Gardiner (EFI) Mr. John Casey (Teagasc) Ing. J. Christophe Orazio (EFI) Dr. Helen Armstrong (Broomhill Ecology) Mr. Alex Held MSc (EFI Bonn) Mr. Ciaran Nugent (Forest Service Ireland) Dr. Sandra Sánchez (CETEMAS) Dr. Ing. Hervé Jactel (INRA) Prof. Stephen Woodward (Univ. of Aberdeen) Prof. Tugba Dogmus (Suleyman Demirel Univ)</p>
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Dinner 19:00 Barbecue

Thursday, June 27, 2019

Morning 8:30-12:00	<p>Laboratory work: Using tools with field data to assess risk</p>	<p>Dr. Nick McCarthy (WIT) Dr. Barry Gardiner (EFI) Dr. Aine Ni Dhubhain (UCD) Ing. J. Christophe Orazio (EFI) Dr. Helen Armstrong (Broomhill Ecology) Dr. Sandra Sánchez (CETEMAS) Dr. Ing. Hervé Jactel (INRA) Prof. Stephen Woodward (Univ. of Aberdeen) Prof. Tugba Dogmus (Suleyman Demirel Univ)</p>
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Lunch 12:00-13:30. WIT Canteen

Afternoon 13:30-17:00	<p>Laboratory work: Using tools with field data to assess risk</p>	<p>Dr. Nick McCarthy (WIT) Dr. Barry Gardiner (EFI) Dr. Aine Ni Dhubhain (UCD) Ing. J. Christophe Orazio (EFI) Dr. Helen Armstrong (Broomhill Ecology) Dr. Sandra Sánchez (CETEMAS) Dr. Ing. Hervé Jactel (INRA) Prof. Stephen Woodward (Univ. of Aberdeen) Prof. Tugba Dogmus (Suleyman Demirel Univ)</p>
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Dinner Own plans

Friday, June 28, 2019

Summer School: Protecting the Forest Resource

<p>Morning 8:30-10:00</p>	<p>Talks:</p> <ul style="list-style-type: none"> • Management options to mitigate risk: Dr. Bill Mason (Forest Research) • Crisis management: Mr. Michael Power (Coillte) 	
<p>10:00-12:00</p>	<p>Group Work and Presentations: Scenario testing, crisis management plans, risk management.</p> <p>Participant groups will present their responses to different management scenarios with different levels of risk. The participants will focus on how to use the tools that have been demonstrated to them during the Summer School while maintaining ecosystem services from the forest.</p>	<p>Dr. Nick McCarthy (WIT) Dr. Barry Gardiner (EFI) Ing. J. Christophe Orazio (EFI) Dr. Bill Mason (Forest Research) Mr. Mike Power (Coillte)</p>
<p>Lunch 12:00-13:30. WIT Canteen</p>		
<p>Afternoon Depart. Free bus available to Dublin airport at 13:30</p>		

Steering Committee

Nick McCarthy (Chair)
Liam Malone
Nuala Ní Fhlatharta
Fergus Moore
Pat O'Sullivan
Barry Gardiner

WIT
Coillte
Teagasc
DAFM
Society of Irish Foresters
EFI PLANT