



WATERFORD
INSTITUTE OF
TECHNOLOGY,
IRELAND

24-28 JUNE

INTERNATIONAL SUMMER SCHOOL 2019

PROTECTING THE **FOREST**
RESOURCE: RISK ASSESSMENT
AND MANAGEMENT USING
INNOVATIVE TOOLS



Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LAIRGE



PROGRAMME OVERVIEW

SUNDAY, 23 JUNE

ARRIVAL: BUS FROM DUBLIN AIRPORT
AT 20H

MONDAY, 24 JUNE

MORNING | FIELD VISIT: FORESTS
SHOWING IMPACT ON DIFFERENT
HAZARDS
AFTERNOON | GROUP WORK:
DISCUSSIONS BASED ON FIELD VISIT

TUESDAY, 25 JUNE
OPEN SEMINARS

MORNING | TALKS OF RISK TOOLS
DEVELOPED IN THE PLURIFOR
PROJECT
AFTERNOON | TALKS ON FOREST RISK
TOOLS

WEDNESDAY, 26 JUNE

ALL DAY | VISIT TO JFK ARBORETUM:
COLLECT FIELD DATA & TEST TOOLS

THURSDAY, 27 JUNE

MORNING & AFTERNOON |
LABORATORY: USING TOOLS WITH
FIELD DATA

FRIDAY, 28 JUNE

MORNING | TALKS: MITIGATING RISK
AND CRISIS MANAGEMENT
GROUP WORK: SCENARIO
TESTING, CRISIS MANAGEMENT, GROUP
PRESENTATIONS
AFTERNOON | DEPART: BUS TO
DUBLIN AIRPORT AT 13:30H



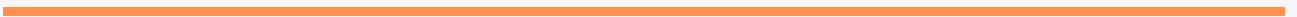
PROGRAMME

SUNDAY, JUNE • 23

AFTERNOON

ARRIVAL: FREE BUS IN EVENING
AT 20:00 FROM DUBLIN AIRPORT
TO WATERFORD

DINNER (OWN PLANS)





MONDAY, JUNE • 24

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 SESSION)

MORNING
DEPART 08:00
RETURN 13:00

LUNCH

WIT CANTEEN

13:00-14:00

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

AFTERNOON
14:00-18:00



MONDAY, JUNE • 24

TUTORS:

DR. NICK MC CARTHY (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)
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

WELCOME BY DR. NICHOLAS MC
CARTHY (WIT)

8:30 - 8:40

8:40 - 9:00

OPENING BY MR. FERGUS MOORE
(DAFM, IRELAND)

LECTURES: TALKS ON RISK
TOOLS DEVELOPED IN THE
PLURIFOR PROJECT

-SILVALERT: ING. J. CHRISTOPHE
ORAZIO (EFIPLANT)

-FUEL MAPS WITH LIDAR DATA
AND ASSESSING DEFOLIATION
WITH UAVS: DR. SANDRA
SÁNCHEZ (CETEMAS), JOSÉ MARÍA
FERNÁNDEZ/ENRIQUE JIMÉNEZ
(CIF-LOURIZÁN)

MORNING
9:00-12:00
OPEN FOR
DAY
ATTENDEES

-MODELLING WIND RISK IN
MIXED STANDS: DR. BARRY
GARDINER (EFIPLANT)

-FOREST SOIL DISTURBANCE
MONITORING PROTOCOL: DR.
NAHIA GARTZIA BENGOETXEA
(NEIKER)

-DETECTION OF EMERGING PESTS
IN SOUTH-WEST EUROPE: DR.
ING. HERVÉ JACTEL (INRA)



TUESDAY, JUNE • 25

LUNCH

WIT CANTEEN

12:00-13:30

**LECTURES: TALKS ON FOREST
RISK TOOLS**

-WIND DAMAGE RISK MODELLING IN
IRELAND: DR. AINE NI DHUBHAIN (UCD)

-FIRE RISK PREDICTION TOOLS: 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.)

AFTERNOON

13:30-17:00

OPEN FOR

DAY

ATTENDEES

DINNER

OWN PLANS



WEDNESDAY, JUNE • 26

FIELD WORK:

VISIT TO JFK ARBORETUM AT
BALLYSOP TO COLLECT FIELD DATA
AND TEST TOOLS

MORNING

8:00-12:00

- SILVALERT
- FORESTGALES
- DEER IMPACT ASSESSMENT
- FIRE RISK ASSESSMENT
- DRONE FLIGHT DEMONSTRATION
- PLANT HEALTH CHECKER
- GENIE II PATHOGEN IDENTIFICATION

TUTORS:

DR. NICK MC CARTHY (WIT)
DR. BARRY GARDINER (EFIPLANT)
DR. TOM LOCATELLI (FOREST RESEARCH)
MR. JOHN CASEY (TEAGASC)
DR. JUAN SUAREZ (FOREST RESEARCH)
ING. J. CHRISTOPHE ORAZIO (EFIPLANT)
DR. HELEN ARMSTRONG (BROOMHILL ECOLOGY)
MR. CIARAN NUGENT (FOREST SERVICE IRELAND)
DR. SANDRA SÁNCHEZ (CETEMAS)
MR. JOSÉ MARÍA FERNÁNDEZ AND MR. ENRIQUE JIMÉNEZ (CIF-
LOURIZÁN)
DR. ING. HERVÉ JACTEL (INRA)
PROF. STEPHEN WOODWARD (UNIV. OF ABERDEEN)
PROF. TUGBA DOGMUS (SULEYMAN DEMIREL UNIV)
MS. KATY MARFLEET (BGCI)
MR. MICHAEL ANDREOU (OPTISENSE LTD)



WEDNESDAY, JUNE • 26

PICNIC LUNCH

12:00-13:00

FIELD WORK:

VISIT TO JFK ARBORETUM AT
BALLYSOP TO COLLECT FIELD
DATA AND TEST TOOLS

AFTERNOON

13:00-17:00

- SILVALERT
- FORESTGALES
- DEER IMPACT ASSESSMENT
- FIRE RISK ASSESSMENT
- DRONE FLIGHT DEMONSTRATION
- PLANT HEALTH CHECKER
- GENIE II PATHOGEN IDENTIFICATION

TUTORS (SEE MORNING SESSION)

DINNER BARBECUE

19:00



THURSDAY, JUNE • 27

MORNING

8:30-12:00

**LABORATORY WORK: USING TOOLS WITH
FIELD DATA TO ASSESS RISK**

TUTORS:

DR. NICK MC CARTHY (WIT)
DR. BARRY GARDINER (EFIPLANT)
DR. TOM LOCATELLI (FOREST RESEARCH)
DR. AINE NI DHUBHAIN (UCD)
DR. JUAN SUAREZ (FOREST RESEARCH)
ING. J. CHRISTOPHE ORAZIO (EFIPLANT)
DR. HELEN ARMSTRONG (BROOMHILL ECOLOGY)
DR. SANDRA SÁNCHEZ (CETEMAS)
MR. JOSÉ MARÍA FERNÁNDEZ AND MR. ENRIQUE JIMÉNEZ (CIF-LOURIZÁN)
DR. ING. HERVÉ JACTEL (INRA)
PROF. STEPHEN WOODWARD (UNIV. OF ABERDEEN)
PROF. TUGBA DOGMUS (SULEYMAN DEMIREL UNIV)
MS. KATY MARFLEET (BGCI)
MR. MICHAEL ANDREOU (OPTISENSE LTD)

LUNCH

WIT CANTEEN

12:00-13:30

AFTERNOON

13:30-17:00

**LABORATORY WORK: USING TOOLS WITH
FIELD DATA TO ASSESS RISK**

TUTORS (SEE MORNING SESSION)

DINNER

OWN PLANS



FRIDAY, JUNE • 28

MORNING

8:30-10:00

TALKS:

-MANAGEMENT OPTIONS TO MITIGATE RISK: DR. BILL MASON (FOREST RESEARCH)

-CRISIS MANAGEMENT: MR. MICHAEL POWER (COILLTE)

10:00-12:00

GROUP WORK AND PRESENTATIONS:

SCENARIO TESTING, CRISIS MANAGEMENT PLANS, RISK MANAGEMENT

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

TUTORS:

DR. NICK MC CARTHY (WIT)
DR. BARRY GARDINER (EFIPLANT)
ING. J. CHRISTOPHE ORAZIO (EFIPLANT)
DR. BILL MASON (FOREST RESEARCH)
MR. MIKE POWER (COILLTE)



FRIDAY, JUNE • 28

LUNCH

WIT CANTEEN

12:00-13:30

AFTERNOON DEPART

FREE BUS AVAILABLE TO DUBLIN AIRPORT AT 13:30

FOR ALL INQUIRIES, PLEASE SEND AN EMAIL TO CLAUDIA.ANTONIOTTI@EFI.INT



STEERING COMMITTEE

NICK MC CARTHY (CHAIR) | WIT
MICK POWER | COILTTE
NUALA NÍ FHLATHARTA | TEAGASC
FERGUS MOORE | DAFM
PAT O’SULLIVAN | SOCIETY OF IRISH FORESTERS
BARRY GARDINER | EFIPLANT

WITH THE SUPPORT OF



**An Roinn Talmhaíochta,
Bia agus Mara**
Department of Agriculture,
Food and the Marine

**Interreg
Sudoe**

