



BACKGROUND

European forests have doubled in size since the mid-19th century, but they are facing new threats such as climate change. Another major concern is the emergence of new pests and diseases that cause decline of forest trees. The causes of these emerging issues are multiple, such as: the introduction of exotic pests and diseases, climate change, and changes in forestry practices. Most introductions are accidental and linked to increased international trade, which removes many natural barriers to the dispersal of organisms, and leads to the redistribution of many animal, plant and microbial species between continents. Some of these enemies (insects, nematodes, fungi, bacteria or viruses) cause significant economic losses and pose a threat to biodiversity conservation. Beyond the effects on wood production, the functioning of the entire ecosystem may be threatened, as well as its biodiversity and, through it, the production of goods and services provided to society.

The *Chalara* ash dieback, the sudden larch death, the *Dothistroma* needle blight of pines, the pine wood nematode, and the Asian chestnut gall wasp are some of the recent emerging species in Europe. Other diseases and pests, such as the American oak wilt fungus, or the emerald ash borer, are major threats on our doorstep. These pests and diseases are at the center of the concerns of institutional actors in European plant health surveillance, and are of increasing concern to forest managers.



PRACTICAL INFORMATION



TARGET AUDIENCE

- PhD students from any country in the world
- also PostDocs & MSc students in their last year.

ECTS grades recognition by Doctoral Schools (Sirena, Univ. Lorraine-AgroParisTech)



REGISTRATION ONLINE

workshop.inrae.fr/nfz-summer-school/Registration

Opens on **March 1, 2021**
Closes on **May 1, 2021**



VENUE

The training course will be held on the premises of INRAE at Champenoux, France.



COST

No registration fees.

Participants will cover their own travel and accommodation costs.



OUR SCIENTIFIC REFERENTS



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If you have any questions or requirements, please contact the organizing committee: nfzschool-contact@inrae.fr