



Belarusian State Technological University



# The main directions of scientific activity of the Department of Forest Protection and Wood Science

Head of the Department

Vyacheslav Zvyagintsev

Ph.D. (Biology), Associate Professor



**The Department of Forest Protection and Wood Science was established in 1947.**

The organizer and the first head of the department was Associate Professor, Ph.D. (Agriculture)

**Andrey Petrusha** - specialist in the field of wood science.

The director of the BTI from 1944 to 1953. He headed the department until 1955.



**Петруша Андрей Карпович**  
**1904 - 1968**

*Директор Белорусского лесотехнического  
института им. С.М. Кирова (1944 - 1953).  
Кандидат сельскохозяйственных наук. Доцент.*



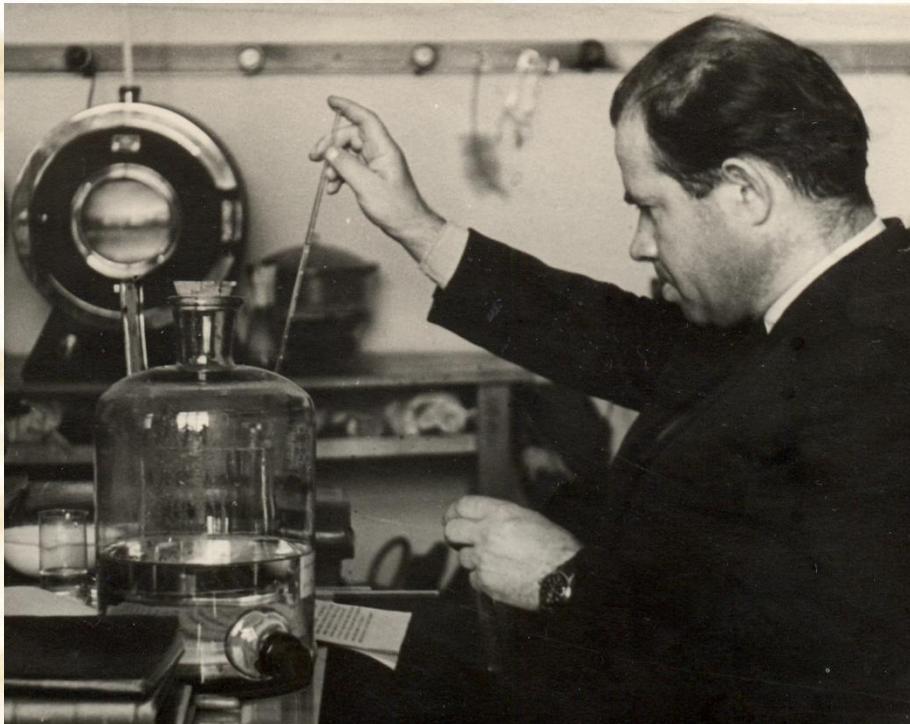
**From 1972 to 1991** the department was headed by Professor, Ph.D. (Biology) **Nikolai Fedorov**.

He worked at the Belarusian State Technological University from 1947 to 2009.

The author of 350 scientific works, including 14 textbooks, teaching aids and monographs, 27 inventions.



Ассистент кафедры  
1952-1954 г.





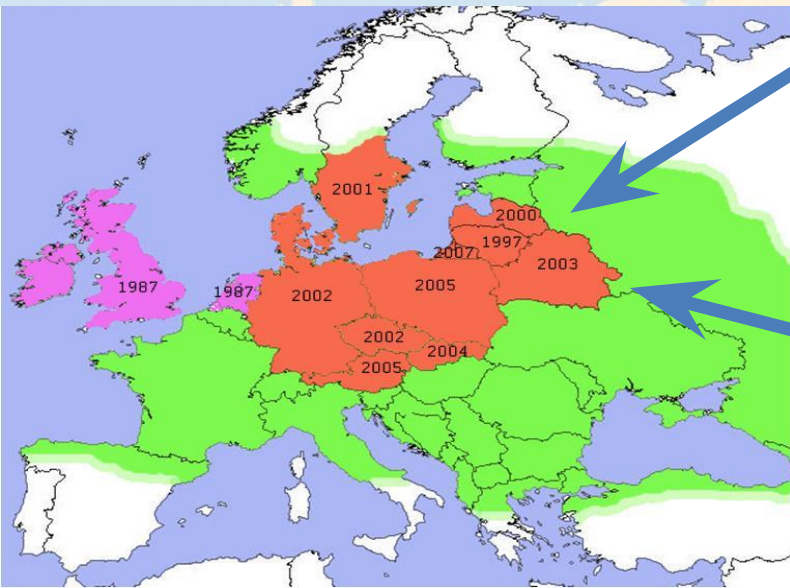
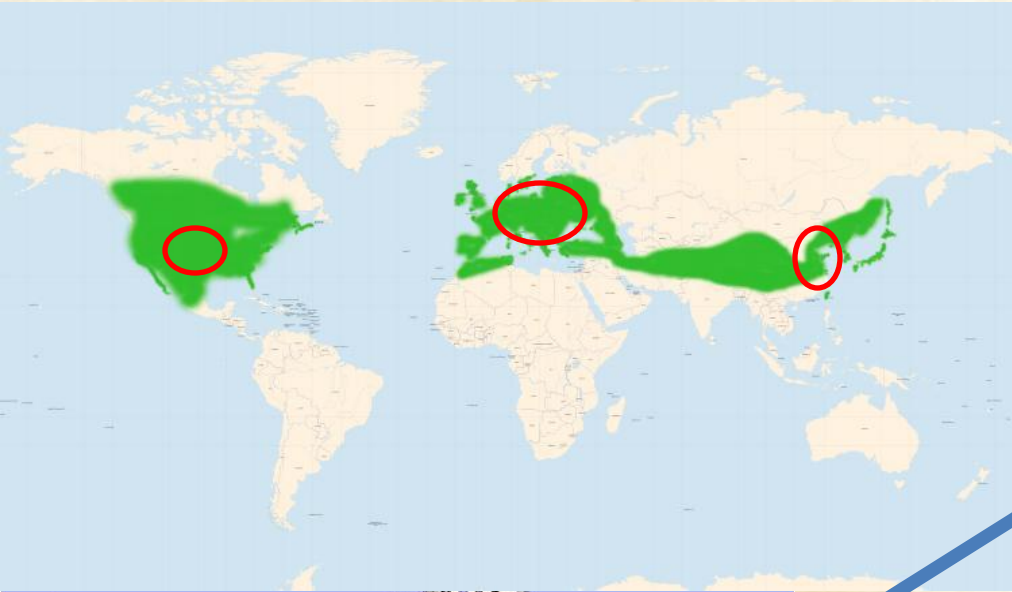
# Textbooks and teaching aids of Nikolai Fedorov





# The main scientific fields of the department:

## *Assessment of the injuriousness and prevalence of pathogens in forest stands*



During the period 2003-2013 the area of ash stands decreased by **23.5%**.

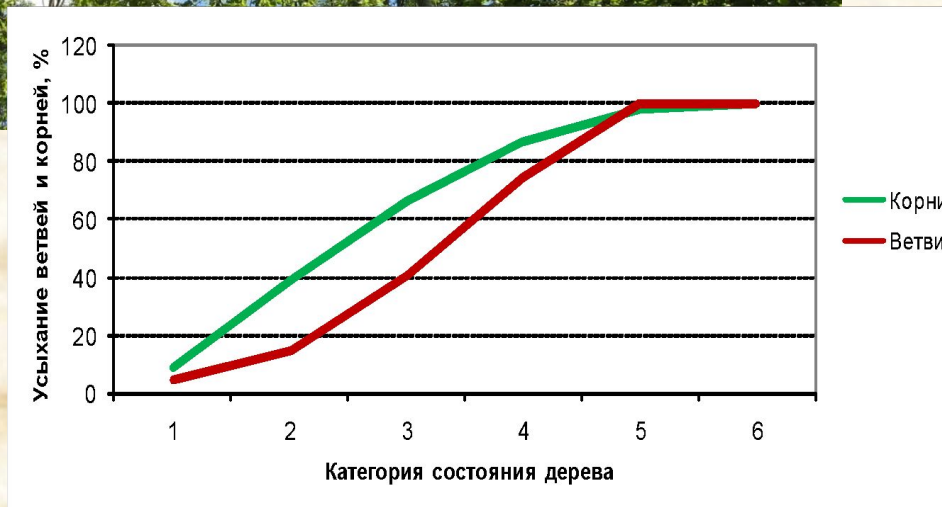
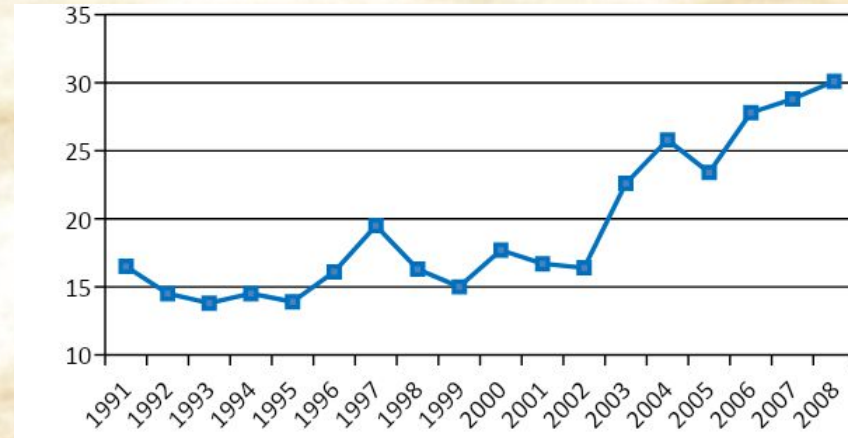
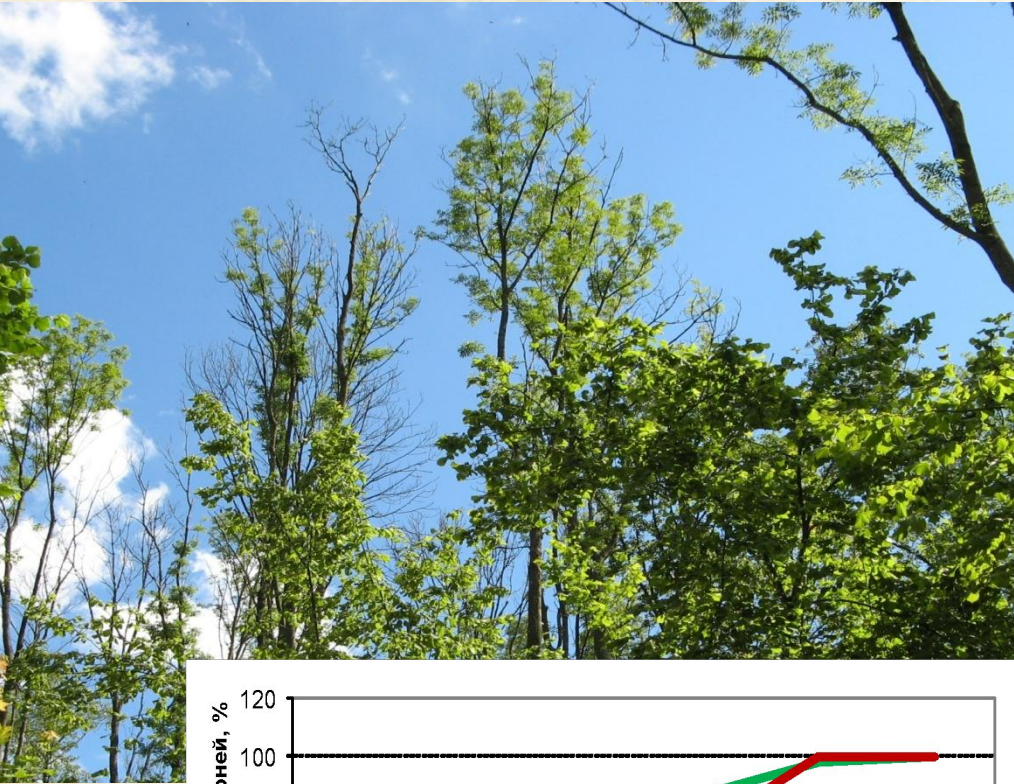


In the Mogilev region **45%** of ash stands fell, in Brest region - **36.5%**.



# The main scientific fields of the department:

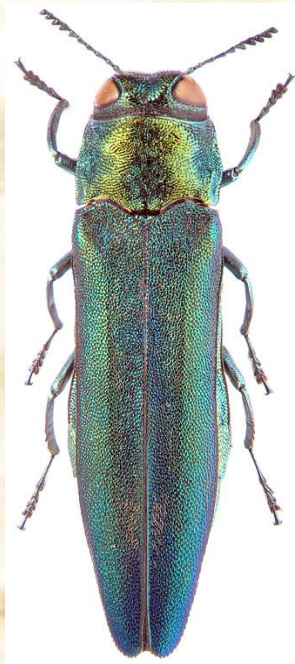
## *Identification of the dynamics of forest pathological processes*



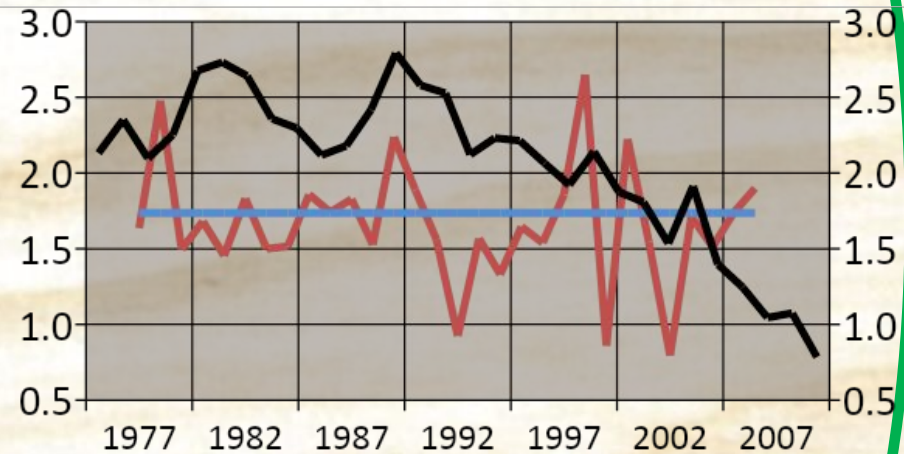


# Monitoring of quarantine and invasive insect species - pests and pathogens in forests of Belarus

Invasion of the fungus *Hymenoscyphus pseudoalbidus* (Queloz et al., 2011) and the emerald ash borer *Agrilus planipennis* Fair.



The disturbance of the trees stability by the alternation of abnormally dry and waterlogged vegetation periods at the turn of the XX and XXI centuries

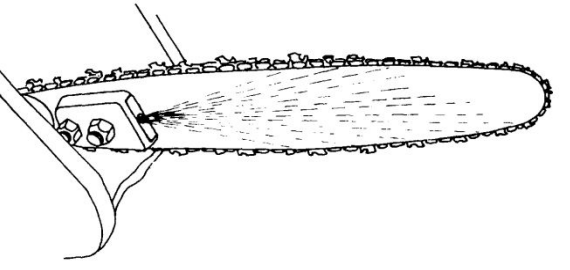
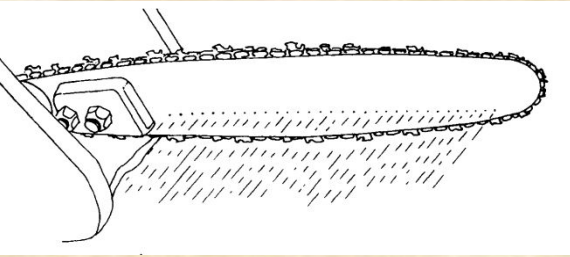


Ash dieback as a result of root systems destruction by fungi of the genus *Armillaria*



# The main scientific fields of the department:

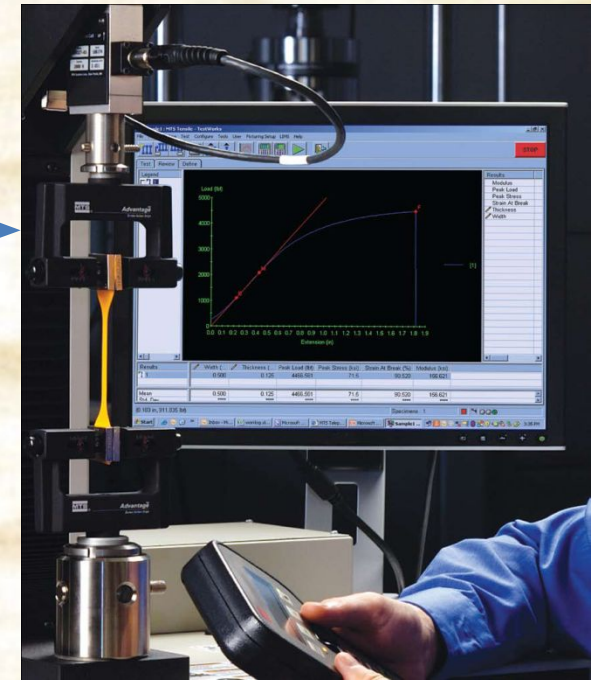
## Development of new methods and forest protective means against pests and pathogens





# The main scientific fields of the department:

## Study of wood properties of and wood materials





# The main scientific fields of the department:

## Development of methods and means of wood protection





Together we will protect our forests!

