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Knowledge and skills of graduate foresters at the university level in Poland.

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University of Life Sciences

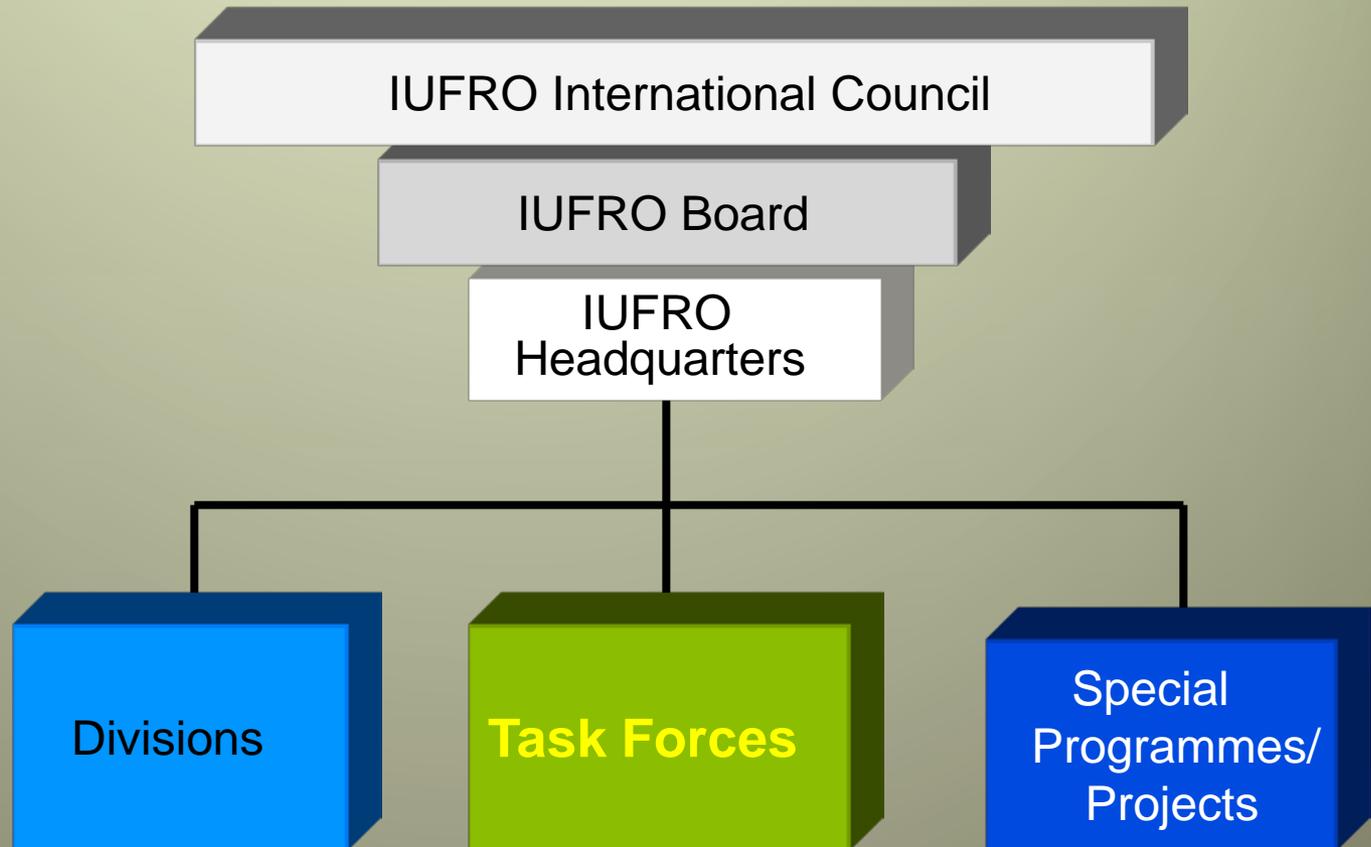
Faculty of Forestry

Warsaw, Poland

WHAT IS IUFRO ?

- Founded in **1892**, IUFRO has a long history of international forest science cooperation.
- IUFRO is the **global network** for forest science cooperation;
- IUFRO unites more than **15,000 scientists** in almost **700 Member Organizations** in more than 110 countries;
- IUFRO is the **only world-wide** international organization devoted to forest research;

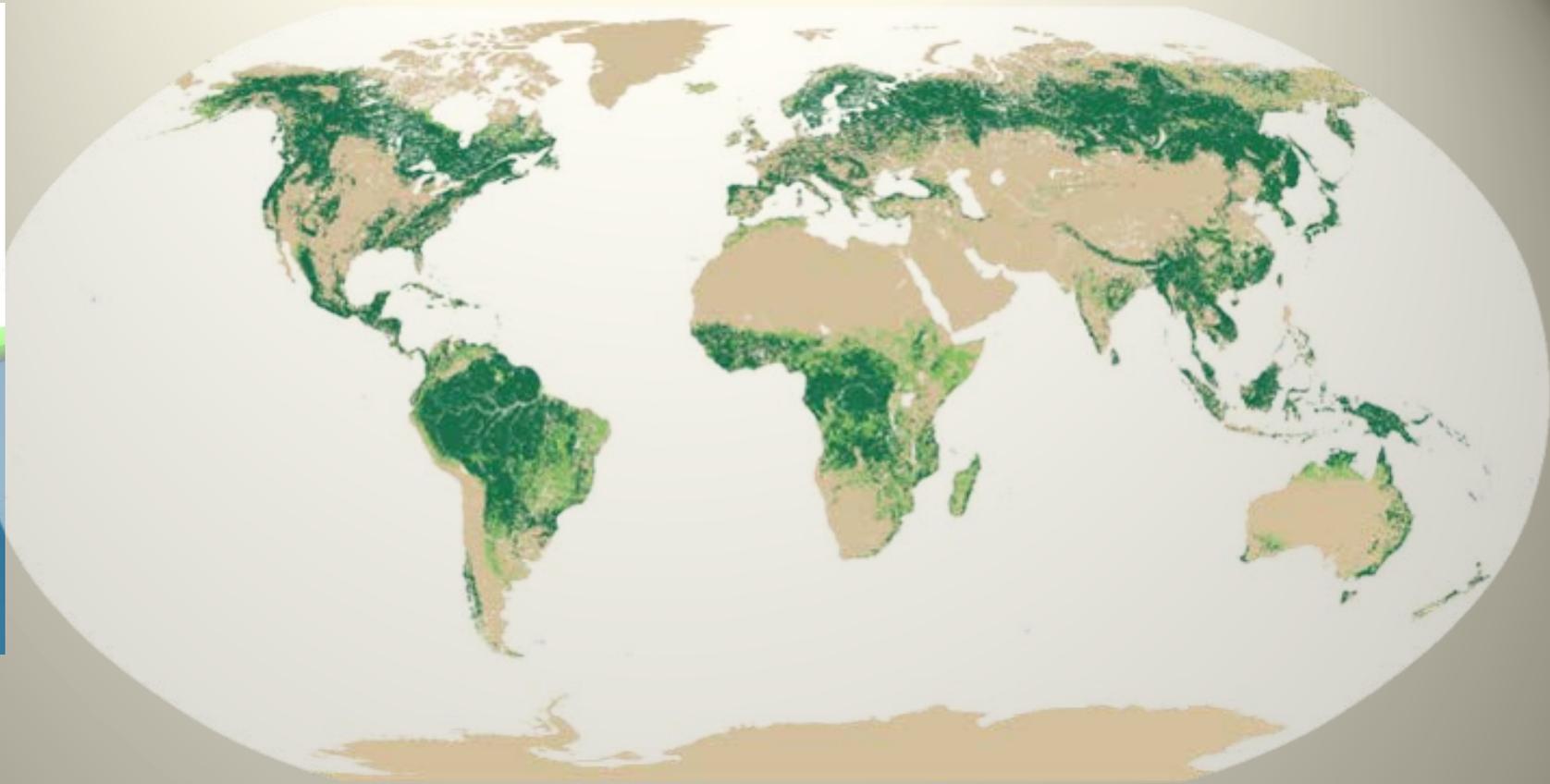
IUFRO STRUCTURE - OVERVIEW





IUFRO TASK FORCE
ON EDUCATION
IN FOREST SCIENCES

Coordinator: prof. Piotr Paschalis-Jakubowicz
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The TF is working on a global scale, and we seek close collaboration with other networks of learning in forest sciences as **SILVA Network**, ANAFE, RELAFOR, IPFE, **IFSA** as well as other networks established in different countries (such as Ukraine, Turkey, China, Russia, etc.).



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Task Force on Education in Forest Sciences (EFS)

Objectives and approaches

The objective of the Task Force on Education in Forest Sciences (TF EFS) is an improved implementation of Education in Forest Sciences worldwide.

- The TF EFS, aims at contributing to the development of standards of Education in Forest Sciences, and examples of excellent practice.



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The system of higher education has been facing fundamental changes, triggered by globalization and global change, altering expectations of stakeholders and society from university graduates and novel insights of educational sciences:

from teaching to learning



We should also take into account that the competence profiles of forestry graduates do not always comply with the requirements posed by potential employers, while emphasizing that the professional **attractiveness** of the forestry sector for graduates **is decreasing.**



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Krakow



Warsaw



Poznan

The starting points for the analyses were the results of research of the curricula of selected three universities of forestry education at university level in Poland, the comparison with the requirements of knowledge and skills posed by potential employers and certain aspects relating to the evaluation survey of graduates by employers.

The study was conducted at the Faculties of Forestry.

General assumptions implemented curricula for university studies of forest in Poland includes the following fields of knowledge and skills:

- graduate university students use the extensive knowledge in the field of forest management and environmental protection, for the design, facilities, leadership and management of forests enterprises in accordance with the principles of the environmental protection and the laws of nature,

- fully preparing to catch up and get the business plans, investment promotion, engineering design implementation of forest management and the leadership of the execution of forest engineering,

- fully qualified to work in institutions related to environmental protection, offices, forest management and forest surveying, production of non-wood forest enterprises, institutions of wildlife and national parks, research institutes and training, state and local governments.



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Graduates at the University have the expertise needed to provide:

- multi- functions of forests, in forest management and environmental protection, as well as for the design, facilities, planning and management of farm forestry in accordance with the principles of the protection of the environment and wildlife.





- **Understanding of different approaches** relating to both the different scale phenomena, as well as contemporary issues:

Climate change, nature conservation,
forest ecosystems adaptive management,
environmental management systems,
gender equality in society,
Forests as a source of energy,
Forests and forest products in rural development and poverty
reduction, other environmental and social impacts, including
the cultural role of the forest.

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The knowledge and skills in all disciplines of study enables graduates include opening service companies, as well as taking jobs in private, business entities, acting on behalf of forestry and environmental protection.





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Thank you for your attention



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Consequently development of forest sciences curricula should move towards:

Focusing on generic and methodical competencies instead of contents and descriptive approaches, enabling graduates to tackle novel, complex problems;

Competencies to integrate and communicate knowledge across disciplinary borders and to analyze the existing interactions;

New learning units addressing challenges such as climate change, adaptive ecosystem management, governance systems, gender issues, forests as source of energy, role of forests and forest products in rural development and poverty alleviation as well as the assessment of other environmental and social impacts.



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TF therefore aims at contributing to development of standards of Education in Forest Sciences, which meet the requirements of today, using experiences and examples of good practice in the IUFRO community and cooperation with higher education experts.

PPJ and AG.Knowledge and skills of graduate foresters at the university level in Poland. Istanbul 2013.



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Forestry graduate has the expertise needed to provide multi-functions of forests, in forest management and environmental protection, as well as for the design, facilities, planning and management of farm forestry in accordance with the principles of the protection of the environment and wildlife. They can create and coordinate the production of nursery, rearing and protection of the forest against threats abiotic, biotic and anthropogenic during capture and transport of forest resources and the use of the forest for hunting purposes.

Graduates are prepared to catch up and achieve business plans, protection and financial engineering design and implementation of forest management and the leadership of the execution of forest engineering and increase the level of the mechanization.



Task Force on Education in Forest Sciences (EFS)

Education in Forest Sciences has a long tradition; it has also undergone fundamental changes: having aimed for a long time at preparing students for occupation in forest management in a traditional way, today in many countries of the world education in forest sciences is about how to manage natural resources for valued people and ecosystem relationships.

The need to explore new fields of education stems not only from the necessity to find answers to the questions raised by our civilization, but also from an accumulated research knowledge and practical achievements of forestry that should be properly utilized. Forest knowledge is the basis of the understanding and management of forests regardless of regional differences.

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