



BOOK OF ABSTRACTS

SERBIAN-CHINESE FORESTRY FORUM

FORESTS FOR THE FUTURE: CHALLENGES, OPPORTUNITIES AND INTEGRATED APPROACHES



BELGRADE, 2025



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PREFACE

The University of Belgrade – Faculty of Forestry, in cooperation with the College of Forestry and Biotechnology of Zhejiang A&F University, organised the scientific conference Serbian–Chinese Forestry Forum “Forests of the Future – Challenges, Opportunities and Integrated Approaches.” Thanks to the initiative of colleagues from our partner institution, the national conference gained an important international dimension.

Collaboration between our faculties has so far taken place primarily through the mobility of master’s students from China, who attend one semester of the master’s programme Forestry and Natural Resources Management, in English, at the University of Belgrade – Faculty of Forestry. The visit of the delegation from Zhejiang raised new questions and opportunities for reciprocal student exchange, as well as for joint participation in international projects.

Numerous issues related to sustainable forest ecosystem management, biodiversity conservation, and the restoration of degraded habitats under climate change represent shared challenges for forestry scientists worldwide. Modern forestry connects tradition with new knowledge and technologies – from sustainable forest management and the protection of soil and water resources to the development of renewable materials and the creation of green spaces that enhance quality of life.

The Forum provided a platform for the exchange of knowledge and ideas among students, teachers, researchers, and professionals from various forestry-related sectors. Its goal was to strengthen academic cooperation, stimulate innovation, and promote the development of green, sustainable technologies, with special emphasis on students and young researchers.

With more than 220 participants and 71 submitted abstracts presenting research results and project activities, the content of the Forum was organised into five thematic sections:

1. The State and Challenges of Forestry in Serbia and China
2. New and Green Technologies and Knowledge in Forestry, Wood Technology, Landscape Architecture and Horticulture, and Ecological Engineering in the Protection of Soil and Water Resources
3. Responses and Adaptation of Trees and Forests to Environmental Stress
4. Forests and Human Well-Being (Interdisciplinary Perspectives on Ecological, Economic, and Social Dimensions)
5. The Role of Young Researchers and Innovation in the Future of Forestry (Student Projects, Start-up Ideas, and International Cooperation)

The Organising Committee will publish the full papers, after peer review, in a special issue of the Bulletin of the Faculty of Forestry. The Book of Abstracts will be available online, along with other activities carried out during the Forum. The programme was enriched by an excursion to the Bojčinska Forest, where participants were introduced to the management system of floodplain pedunculate oak forests (*Quercus robur* L.) and established agroforestry systems.

Finally, we wish to express our sincere gratitude to the College of Forestry and Biotechnology of Zhejiang A&F University for their support and cooperation in organising the Forum, as well as to everyone who contributed to preparing and publishing the Book of Abstracts.

Chair of the Organising Committee
Prof. Snežana Belanović Simić, D.Sc.

TOPIC 1

The State and Challenges of Forestry in Serbia and China

THE BASIC PARALLELS BETWEEN FORESTRY PRACTICES IN THE PEOPLE'S REPUBLIC OF CHINA'S HABIT, AS WELL AS THE BASIC DIAMETRICAL CONTRASTS WITH THE SAME IN THE ECONOMY AND NATURE PROTECTION IN SERBIA

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ABSTRACT

Traditional forest management and supply chain systems have evolved into more comprehensive and integrated approaches, leveraging modern tools, technologies, and information and communication technologies (ICTs) at phenomenal scales. As SAME, is the the the precision forestry concept emerged around the millennia, primarily to enhance the productivity of actively managed forests. These research projects demonstrate the potential benefits for the adoption of precision forestry techniques in forest management organization. Precision forestry has several definitions, each reflecting an individual's perspective and area of expertise. It is usually defined as precision forestry as "planning and conducting site-specific forest management activities and operations to improve wood product quality and utilization, reduce waste, and increase profits, and maintain the quality of the environment". Also it is described it as "the use of modern tools and techniques to get as much real information as it is possible to improve the decision-making process and to ensure that current targets of forest management are met". Regardless of the specific definition, precision forestry typically employs advanced sensing technologies and analytical tools to provide highly repeatable measurements, actions, and processes for growing and harvesting trees, as well as monitoring other ecosystem goods and services At the same time, those are main point of points of divergence. These technologies and tools include remote sensing platforms and sensors, global navigation satellite systems (GNSSs) and wireless systems, mobile mapping using smartphones and tablets, geographic information systems (GISs) and computer-assisted design (CAD) or GIS/CAD, real-time process control scanners, visualization tools, robotics, and extensive knowledge bases. These capabilities are expected to posses so modern and improved infostructure and technology presence in more than all, which implie improve forest management results through at least one of the default ways. Just mantioned given improvment involved and its definition and associated tools, one might assume that the term "precision forestry" is analogous to "precision agriculture", from which it likely originated. Indeed, several aspects of precision agriculture are directly applicable to forestry, especially during the reforestation stage when weed control is being applied. This also could be link that connect us two civilasition within forestry -integral forest protection or bio-control in weed supression.

Keywords: Parallels, Precision forestry, Technology, weed supression, Integral protection.

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