

Deal for Green?

Contribution of managerial economics, accounting, and cross-sectoral policy analysis to climate neutrality and forest management

Report by

Vasja Leban, Deputy Coordinator of IUFRO Working Party (WP) 4.05.02 - [Managerial economics](#)

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Anže Japelj, Deputy Coordinator of IUFRO WP 4.05.05 - [Social innovation and entrepreneurship](#)

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Forests are crucial for biodiversity and for safeguarding various ecosystem services, which are increasingly recognized and valued by communities and EU policies. Yet, despite the optimistic visions of countries and unions to reduce dependence on fossil fuels, we are facing increasing competition for natural resources - a situation that requires additional contributions from all disciplines to be improved in a transdisciplinary effort.

The IUFRO conference "Deal for Green? Contribution of managerial economics, accounting, and cross-sectoral policy analysis to climate neutrality and forest management" on 25-27 September 2023 in Ljubljana, Slovenia addressed these issues. It examined them from a variety of perspectives, including managerial economics, accounting, cross-sector policy analysis, decision making and optimization, operational research, and social and applied sciences.

[Visit the conference website!](#)

The meeting attracted 53 participants (+1 participant from United States: pre-recorded talk) from 16 countries and four continents. It was organized by IUFRO Research Group 4.05.00 and Working Party 9.05.03 and kindly hosted by the University of Ljubljana, Biotechnical Faculty and the Slovenian Forestry Institute with the support of the Pahernik Foundation, the Ministry of Agriculture, Forestry and Food and its Forest Fund, the company SiDG Ltd., publishing house MDPI and their open access journal *Forests*.

Key issues discussed encompassed the potential outcomes of the EU Green Deal in relation to forests and forestry as well as the contribution of managerial economics, accounting, and cross-sectoral policy analysis to climate neutrality and forest management. It was mentioned that activities will likely yield additional knowledge exchange, through partnerships, and individual experiences.

Social innovation, people's participation and an improved science-policy interface will play an important role in designing measures for green recovery and long-term sustainability of socio-ecological systems, as well as in efficiently dealing with increasing global change effects, employment is-



Group photo: Ajša Alagić, Slovenian Forestry Institute

sues, biodiversity loss, demand for various ecosystem services and other environmental issues on a local and global scale.

The Green Deal implemented to (forestry) national strategic documents is still insufficient; political and socio-economic contexts to cope with large-scale disturbances exist; environmental accounting and economic appraisal is still not sufficient. The activities within the New European Bauhaus will minimize environmental impacts, increase societal and economic impacts by functional use of land and material; other incentives (e.g., Carbon Removal Regulation) will help diminishing forest degradation, deforestation, and biodiversity loss. Sustainable provision of ecosystem services can be supported through payment for ecosystem services schemes or by social innovation, particularly in marginalized mountain areas in Europe; the perspectives of employment and risk management are gaining importance.

The Research Group 4.05.00 will actively participate in the IUFRO World Congress 2024 organizing several sessions with oral presentations, panels, and posters. After the IUFRO Congress the Research Group will organize the next annual meeting in 2025.

Conference proceedings: DOI 10.20315/SilvaSlovenia.0022, available at: [IUFRO Proceedings Archive](#)

IUFRO 2023 Latin American Conference

Sustainable Landscape Management – the role of forests, trees, agroforestry, and their interactions with agriculture

Report by Yeda Maria Malheiros de Oliveira and Patrícia Povoá de Mattos, IUFRO LA-2023 Organizing Committee and Scientific Committee representatives
(Report abridged by the editor: [Full report](#))

[Meeting website](#)

The IUFRO LA-2023 Conference on 17 – 19 October 2023 took place at the Institute of Engineering of Paraná, Curitiba, Brazil, and attracted 321 participants from 19 countries. It offered a platform for presenting and discussing different initiatives that aim to create more resilient landscapes for the benefit of people and nature. It was a hybrid conference organized around six discussion panels. A total of 57 oral presentations and 78 posters followed the main themes of the “anchor” panels.

To take advantage of the presence of experts, **three side events were organized** in addition to special meetings, book launches and a small exhibition area for networking and socializing. The side events focused on the following themes:

- Synergy between initiatives related to SDG 5
- Social component of landscape and multi-stakeholder dialogues
- Community forest management in Amazonia

The first panel was titled “Sustainable wood for a sustainable world (SW4SW)” and took place prior to the conference. The panel was organized by FAO (Thais Linhares-Juvenal) and Embrapa Forestry (Erich Schaitza). During the meeting, five invited group facilitators worked on summarizing opinions and suggestions of the participants on the following topics:

- The business case for wood from natural forests
- Increasing production from planted forests
- Wood in the bioeconomy
- Governance and policy for sustainable wood for a sustainable world
- Finance and investments



Yeda Maria Malheiros de Oliveira, Embrapa Forestry, Brazil, and Martín Sánchez Acosta, INTA, Argentina.
Photo by Marcelo Elias



Photo by Valterci Santos

Each of the other five “anchor” panels featured four to five panelists who were invited based on their specialty, but also considering geographic balance (more than one Latin American country per panel) and gender, as far as possible.

- Planted forests with native and exotic species on the rural property.
- Sustainable forest management in watersheds, including regulation of water flow, ecological corridors, and biodiversity indicators
- The sustainable forest mosaics in the landscape
- Sustainable natural forest management, including secondary forests and forest restoration for the promotion of the bioeconomy
- Integrated agricultural production systems, agroforestry systems, Integrated Crop-Livestock-Forestry (ILPF)

The objectives of the event - broad, in accordance with the broad theme covered - were fully achieved and aligned on the following bases: a) present innovative research results on the topics; b) regionally strengthen communication between the scientific community, public authorities and private initiatives and promote regional and international cooperation in the context of the conference themes; c) contribute to the discussion on sustainable landscape management and present “success stories”, including models for food and environmental security, as well as climate resilience. Forest management in natural forests was one of the most discussed topics and the vision of the Latin American panelists converges on the need for greater visibility on the topic, avoiding distortions and confusion with the topic of deforestation and illegal logging.

The conference was kindly hosted by Embrapa Forestry and sponsored by CIPEM (Center for Wood Production and Export Industries in the state of Mato Grosso); FNB (National Forum on Forest-Based Activities) and Berneck (private wood production company). The event was supported by six universities (Midwestern State of Paraná University, UNICENTRO; Federal University of Technology – UTFPR; Federal University of Amazonas – UFAM; Federal Rural University of Amazonia – UFRA; Federal University of Paraná – UFG; Federal University of Paraná – UFPR.) Also important was the support of: Brazilian Forest Service, SFB; Foresters Brazilian Society, SBEF; Forestry Institute, INFOR, Chile; National Institute of Technology and Agriculture – INTA, Argentina.

Small-scale Forestry and Modern Society

Report by Christoph Hartebrodt, Coordinator of IUFRO Research Group 3.08.00 - [Small-scale forestry](#)

Small private forests are an important forest ownership type in almost all countries, varying greatly in terms of size, objectives, and organizational structures. Regardless of the specific characteristics, the activities related to small private forests take place in the public sphere, creating diverse interrelationships between the forest, its owners, and society. Therefore, it is of great importance to examine and understand these interactions, as well as provide guidance on how small private forests can thrive and evolve in a society that is undergoing rapid change.

On 22-26 August 2023, 55 participants from 15 countries on four continents gathered in Tartu, Estonia, at the Institute of Forestry and Engineering of University of Life Sciences, to discuss these interactions between “Small-scale Forestry and Modern Society”. [Meeting website](#)

The topic of climate change and CO₂ sequestration is now being extensively addressed in small private forest research as well. Besides the economic implications, the issue of forest transformation is often hindered by limited size of the individual property. It has also become evident that the provision of other non-timber ecosystem services from small-scale forests is gaining importance in many countries. The question of cooperation and the consolidation of small private forests into larger, more effective units is an ongoing concern for researchers.



Photo: FVA Baden-Württemberg; Dr. Christoph Hartebrodt

The topic of small private forests and modern society was wisely chosen. Whereas previous conferences often focused more on the forest owners as individuals, their attitudes and behavior, this year’s contributions highlighted the increasing influence of society and more intensive interaction between society and forest owners. It also became apparent that politics has discovered the private forest as a producer of ecosystem services. The question as to which indicator systems can be used to motivate small private forests to provide more non-timber products is on the political agenda in many countries.

The next meeting of the group is planned as a side event before the IUFRO World Congress in Stockholm, Sweden.

Proceedings: <https://smallscaleforestry.emu.ee/proceedings/>

Improving Access to Sustainable Forest Materials in a Resource-constrained World

Report by Enrico Marchi, Coordinator of IUFRO Working Party 3.01.03 - [Harvesting and processing systems](#)

The 55th International Symposium on Forest Mechanization (FORMEC) and 7th Forest Engineering Conference (FEC) with the title “Improving access to sustainable forest materials in a resource-constrained world” took place on 20-22 September 2023 in Florence, Italy, and brought together 230 participants from 29 countries to share state-of-the-art knowledge about harvesting operations, with a focus on steep terrain.

[Meeting website](#)

The meeting offered a one-day pre-tour and a two-day technical conference on new developments in forest engineering. It involved IUFRO Working Party 3.01.03 and was

55th FORMEC and the 7th FEC hosted in Florence.
Photo by Formec Organizing Team



kindly hosted and supported by: Department of Agriculture, Food, Environment and Forestry, University of Florence; Institute of Bioeconomy, Italian National Research Council; Italian Academy of Forest Science, Tuscany Region.

Two invited plenary speakers, Prof. em. Dr. Hans Rudolf Heiniemann (ETH Zurich) and **Prof. Dr. Gerald Steinbauer-Wagner** (TU Graz), shared their research, followed by a panel discussion on the future of women in forest engineering and research.

During the two-day conference, a total of 24 sessions were held, featuring 141 oral presentations. In addition, 65 poster presentations were displayed across the reserved poster session. The

conference addressed various problems in the field of sustainable forest operation and innovation in forest engineering and discussed the following key issues:

- Harvesting Systems
- Forest Operations Planning Issues
- Ergonomics and Worker Safety
- Environmental Impacts
- Digitalization and Automation
- Business, Workforce and Education
- Biomass and Bioenergy
- Precision Technology and Remote Sensing
- Supply Chain and Transportation Logistics
- Wildfires and Forest Operations.

The goal of the 55th FORMEC and the 7th FEC was to build a global community and improve the networking opportunities for forest research scientists within the forest engineering sector.

The proceedings and oral presentations will soon be posted on the conference website. Formec 2024 will take place in Gdańsk, Poland from June 11-14, 2024.

Uneven-aged Silviculture: Insights into Forest Adaptation in Times of Global Change

Report by Tomáš Vrška and Pavlína Pancová Šimková, Mendel University in Brno, and Linda Nagel, Coordinator of IUFRO Research Group 1.05.00 - [Uneven-aged Silviculture](#)

On 18-20 September 2023, 78 participants from 23 countries and four continents came together in Brno, Czech Republic, to discuss uneven-aged silviculture. The meeting involved IUFRO Research Groups 1.05.00 and 1.09.00 - [Ecology and silviculture of mixed forests](#) and was kindly hosted and supported by [Mendel University](#) in Brno, Czech Republic, Faculty of Forestry and Wood Technology, and Mendel University Enterprise Masaryk Forest in Křtiny.

[Meeting website](#)
[Proceedings](#)

The meeting was held for three main reasons:

- A five-year break in personal communication in our Units 1.05 and 1.09 due to the Covid 19 pandemic
- The crisis of forests in Central Europe and their destruction due to the synergy of several factors
- The rapidly changing expectations of society for benefits from forests, which, in the context of rapid changes in their health, cause significant complications for foresters

Since the focus of both IUFRO Units partially overlaps, it had been agreed to organize a joint conference.



Presentation by Linda Nagel, Utah State University, USA.
Photo provided by Tomáš Vrška

Key issues that were discussed included:

- Integrated forest management for the future
- Adaptation strategies for uneven-aged managed forests
- Transformation strategies for formerly even-aged managed forests
- How to work with disturbances in the forestry, how to diversify actual stands
- How to reach forest stand complexity using uneven-aged silviculture methods
- Assessing of critical limits of forest stands for different tree species
- How climate change makes changes to forest stands – how fast, how severe
- Human behavior (foresters) during climate change
- How to build bridges between science and practice

Conclusions:

- Regardless of the exact paradigm or terminology used, silviculture has always considered science and the best available local information to inform management practices toward the best outcome for the objectives of a given forest.
- Silviculture is a complex and integrated discipline that is now incorporating uncertainty created by climate change into the scientific questions that are being addressed and sharing scientific findings with practitioners.
- Species diversity and structural complexity are increasingly important for building resilient and adaptive forests for the future.
- More work is needed to clarify the language used globally to describe forestry in a rapidly changing world, and to strengthen the bridge between science and practice.

There are plans for a special section in the *European Journal of Forest Research* that will include up to 10 papers based on presentations from the meeting.

Also, IUFRO Units 1.05.00 and 1.09.00 intend to host another joint meeting in 2025 or early 2026. The location has not yet been identified, but there is interest in convening in North America.

NIFoS Hosted an International Symposium to Share the Achievements of National Reforestation and Seek Future Visions in the Forest Sector

On September 13th, the National Institute of Forest Science (NIFoS) hosted the “International Symposium of 50th Years of Anniversary on National Reforestation” at COEX, Seoul, to share the achievements of national reforestation in the Republic of Korea (Korea) and present a vision to contribute to the future international community. [Visit the symposium website!](#)



Photo by courtesy of NIFoS

This year marks the 50th anniversary of the complete restoration of barren lands into forests, achieved through strong national leadership and the sense of ownership by the citizens in 1973. In a survey on public awareness of forests conducted by the Korea Forest Service in May, the satisfaction rate regarding National Reforestation reached 85.4%. Despite this remarkable global success in forest greening, Korea still faces challenges such as climate change, forest disasters, improving ratio of wood self-supply, and competitiveness in forestry.

Therefore, during this symposium, under the main theme “Achievements and Challenges in National Reforestation and Seeking Global Forest Policy,” keynote speeches, presentations, and discussions took place. In the keynote speech, Minister of the Korea Forest Service Nam Sung-Hyun presented “50th Years of National Reforestation, A Prosperous Forestry Renaissance,” while Dr John Parrotta, President of the International Union of Forest Research Organizations (IUFRO), delivered a presentation on “Global Perspective on Forest Landscape Restoration.”

Subsequently, presentations and discussions were held on topics such as:

- The utilization and management of forests and forestry
- Sharing of forest ecosystem services
- Contributions to carbon neutrality
- International cooperation and dissemination in the global community

IUFRO Management Committee Meets CSIR-FORIG Research Scientists in Ghana

CSIR-Forestry Research Institute of Ghana-Fumesua came alive on Wednesday, September 20th, 2023, as the International Union of Forest Research Organizations (IUFRO) Management Committee embarked on a significant working visit led by the esteemed President of the organization, Dr. John A. Parrotta. This visit was a testament to the thriving collaboration between global forest research leaders and Ghana's distinguished Institute CSIR-FORIG.



At CSIR Forestry Research Institute of Ghana. Photo by Alexander Buck, IUFRO



IUFRO President John Parrotta and FORIG Director Daniel Ofori planting an *Aubreginia Taiensis* (Duatadwe-kese) tree, a critically endangered species, on the grounds of the FORIG campus. Photo by Alexander Buck, IUFRO

With a warm embrace, the Director of CSIR-FORIG, Prof. Daniel A. Ofori, welcomed the IUFRO delegation. Prof. Ofori expressed delight at hosting their distinguished guests, emphasizing the enduring bond between the two institutions.

He took the opportunity to introduce CSIR-FORIG once more, showcasing its remarkable evolution and commitment to becoming a Centre of excellence in forestry research excellence in the humid tropics.

During the enlightening presentation, Prof. Ofori provided a glimpse into the institute's history and the diverse research divisions working tirelessly towards their respective goals. He indicated that each division focused on a specific research domain, all contributing to CSIR-FORIG's overarching mission and that the research programmes of the institute are in synchrony with the IUFRO themes and Divisions.

Dr. Parrotta, the President of IUFRO, reciprocated with an overview of IUFRO's mission and operations highlighting the organization's commitment to being the global voice of forest science for a more sustainable future. This vision, he noted, is closely aligned with CSIR-FORIG's mission.

Dr. Parrotta explained that their mission thrived on research excellence and knowledge dissemination to find science-based solutions to global forest challenges, echoing the commendable work being done by CSIR-FORIG, and expressed their intent to replicate this commitment in other countries.

In a moment of pride, Dr. Parrotta revealed that Ghana plays a significant role within IUFRO, with Prof. Daniel A. Ofori representing the nation as the country's representative on the International Council.

He also lauded the presence of five IUFRO member organizations in Ghana, with CSIR-FORIG leading the way.

As the meeting progressed, researchers shared heartwarming experiences with IUFRO, from sponsorship to conferences,

underscoring the impactful partnerships fostered by the organizations.

Dr. Parrotta concluded by extending an open invitation for members to reach out for any needed information and expressed gratitude to the Director Prof. Ofori for his warm hospitality.

To commemorate the visit, he presented the Director of CSIR-FORIG with an iconic IUFRO cap and a symbolic mapping bird, while recognizing the outstanding contributions of select members with tokens of appreciation. To crown it all, the President who led the delegation planted an endangered species of *Aubreginia taiensis*. "Great Tiger-nut tree" at the Rawlings Park of CSIR-FORIG.

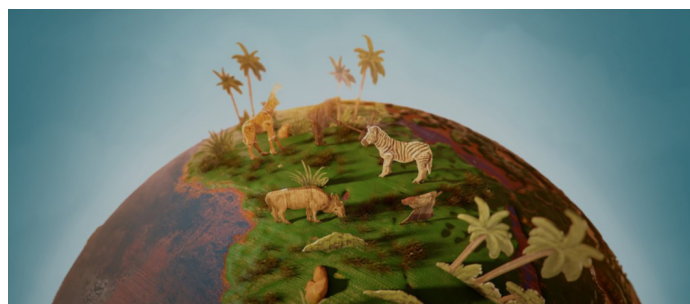
This harmonious interaction between the IUFRO Management Committee and CSIR-FORIG was a testament to the power of international collaboration in advancing forest research for a sustainable future.

Narration by Gifty Kayla Amoshie

Conservation and Sustainable Use of Wildlife is Essential to Achieve Key Targets of the Kunming-Montreal Global Biodiversity Framework

Report from [CPW](#) side event "Advancing the sustainable wildlife management for people, nature and positive livelihood outcomes: Perspectives of the Collaborative Partnership on Sustainable Wildlife Management" held on Monday 16th October 2023, at the meeting of the Subsidiary Body on Scientific, Technical and Technological Advice ([SBSTTA](#)).

Sustainable Wildlife Management (SWM) is a cornerstone in the realm of biodiversity conservation. It not only contributes to the attainment of the Sustainable Development Goals but remains acutely pertinent to the Kunming-Montreal Global Targets Biodiversity Framework, particularly underscoring the significance of Targets 4, 5, and 9. Despite its vital role, SWM faces mounting challenges in light of increasing human populations, technological advancements, and the increasing commercial trade, both domestically and internationally, in and unsustainable use of, wild species.



At the side event, which was also attended by IUFRO's Nelson Grima, the Collaborative Partnership on Sustainable Wildlife Management (CPW) presented a [new workplan](#) for 2023-2025. This workplan encompasses a diverse range of collaborative areas such as raising awareness of the links between sustainable use of wildlife, food security, livelihoods and well-being, culture and the integrity of landscapes, or supporting countries to ensure that the use and trade of wildlife is legal, sustainable and safe.

International Science Council Global Knowledge Dialogue: Asia-Pacific

6 October 2023, Kuala Lumpur, Malaysia

In a world faced with complex global challenges, from climate change to pandemic, the demand – and the potential to provide actionable, solutions-orientated knowledge that can inform transformative political and societal responses has never been greater.

Within the series of [global knowledge dialogues](#), this meeting held in Kuala Lumpur, Malaysia on 6 October 2023, aimed at strengthening the work of research organizations towards providing a robust and credible voice for science on the global stage.

Organized by the International Science Council the meeting brought together science organizations from all disciplines including national academies of sciences and scientific unions. IUFRO was represented by Dr Mohamad Nasir Mat Arip from the Forest Research Institute Malaysia (FRIM).

The results of the meeting will provide useful input to the ongoing debates within the forest science community discussing future thinking in the forestry sector, interdisciplinary collaboration, and sustainability science.

IUFRO would like to express its gratitude to the **Forest Research Institute Malaysia and Dr Mohamad Nasir Mat Arip** for participating in this meeting and in this way helping to expand IUFRO's global representation in a decentralized fashion.

Congratulations!

Pierre Sicard Received Marin Drăcea Award



In celebration of the 90th anniversary of the “Marin Drăcea” Romanian National Institute for Research and Development in Forestry, an International Scientific Conference titled “Forest science for people and societal challenges” was held on 2-5 October 2023 in

Bucharest, Romania. The conference was supported by IUFRO Division 8 Forest Environment. At the event, Pierre Sicard, ARGANS, France, Deputy Coordinator of IUFRO Working Party 8.04.00 - [Impacts of air pollution and climate change on forest ecosystems](#), was presented the prestigious Marin Drăcea Award. **Conference website:** <https://icas.ro/90.html>

European Forest Institute Celebrated its 30th Anniversary

On 20 September, over 90 participants joined the EFI Secretariat in Novi Sad, Serbia, to celebrate EFI's 30th anniversary, discuss future plans, and carry out decision-making. This was the first time that the Annual Conference had been held in Southeastern Europe, offering members the opportunity for new conversations and connections, as well as celebrating 30 years of collaboration, networking and research.



[Click to read on!](#)

Publications

Women in Forestry in the Forest and Mountain Villages of Turkey 1959 - 2009

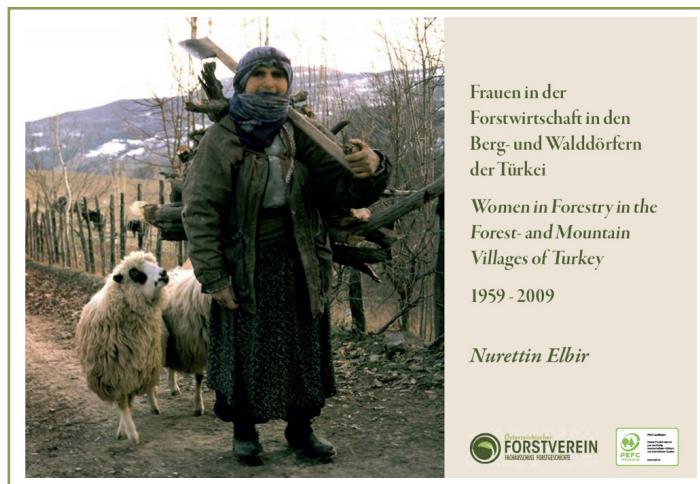
By Nurettin Elbir; published by Österreichischer Forstverein, Fachausschuss Forstgeschichte, Vienna 2023; edited by Elisabeth Johann, Head of the Group of Experts in Forest History of the Austrian Forest Association and Coordinator of IUFRO Working Party 9.03.02 - [Forest culture](#)
ISBN 978-3-200-09227-3

The illustrated book in English and German offers a documentation of the lives of women in the forest villages of Turkey. Already in the second half of the 20th century and probably much earlier, they had a special social and economic position in their village community. Today there are still 29,974 villages and 7.8 million forest dwellers living in or near the forest,

whose livelihoods depend on the use of available forest resources in the close surroundings.

Dr Nurettin Elbir, Ankara, who grew interested in the specific position of women in these forest villages while at the Ministry of Agriculture and Forestry, researched their social, cultural, and economic life and documented them photographically in different parts of the country since the 1960s.

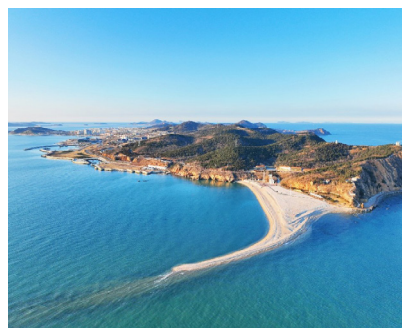
[Link to the PDF](#)



The Zero-emission Development on Island: A Local Pilot in China to Fight Climate Change

Report by Zhen Wang, Deputy coordinator in China, IUFRO Working Party 5.12.01 - [Life cycle analysis of forest products](#)

Currently, China is taking various actions to achieve its goal of “carbon peak by 2030 and carbon neutrality by 2060”. As a natural boundary, islands occupy a unique position in the history of ecology. Similarly, islands, especially inhabited ones, can also serve as comprehensive experimental zones for carbon neutrality.



Aerial view of Chang Island. Photo by Weikang Zhang

Chang Island belongs to Yantai City, Shandong Province, located in the Bohai Strait, consisting of 151 islands (Figure 1). The land area of the island is 59 km², 43% of which is covered by forest. There are 10 inhabited islands with a population of 40,127, where the leading industries are fisheries and tourism.

In 2022, its total greenhouse gas emissions were approximately 230 kilotons of CO₂. Among them, energy activities (with electricity generations and ship operations as main sources), waste treatment, and land use changes and agriculture accounted for 99.3%, 0.6%, and 0.1% respectively. On contrast,

its carbon sink was 90 kilotons of CO₂, which mains a gap of 140 kilotons of CO₂ for the “zero-emission” target.

Therefore, the Yantai government makes a carbon neutrality plan (2025-2035), which includes a series of actions to reduce carbon emission and enhance carbon sink, for examples, using offshore wind power to replace fossil fuel power, building charging infrastructure for all buses and vessels, establishing a zero-emission fishery system along its life cycle, designing tourism routes with ecological and low-carbon behaviors, and increasing carbon sinks with afforestation and conservation of reefs and seaweed.



Chang Island received a total of 3.271 million tourists in 2022. Photo by Jihua Zhang

“Constructing a zero-emission island can not only promote local ecological protection and low-carbon development, but also have a positive impact on the surrounding areas” said Zheng Deyan, mayor of Yantai City. In short, Chang Island’s efforts will provide a reference for other islands or areas. Meanwhile, as an experimental zone of “zero-emission”, there are still many challenges, such as the indirect carbon emissions embodied in products and services. No doubt, more ambitious actions should be advocated to deal with the urgency of global climate crisis.

[Find out more and download the full article!](#)

Passion for Nature: Global Student Motivations for Forest-related Education and Career Aspirations

Authors: Owuor, J.A.; Winkel, G.; Giessen, L.; Prior, L.; Burns, J.; Tegegne, Y.T.; Poschen, P.

Source: *International Forestry Review*, Volume 25, Number 3, September 2023, pp. 358-371(14)

Publisher: Commonwealth Forestry Association

DOI: <https://doi.org/10.1505/146554823837586212>



Photo by Engin Akyurt on Pixabay

Understanding students’ perceptions about their studies is crucial in addressing the declining interest among young people to pursue careers related to forests. The paper explores where the interest to pursue forest-related programmes stems from among students as well as their career aspirations.

The paper is finally out one year after the conclusion of the [Global Student Networking and Green Jobs in the Forest Sector](#) project by European Forest Institute, IUFRO - International Union of Forest Research Organizations, and the International Forestry Students’ Association (IFSA).

The Global Forest Health Crisis: A Public-Good Social Dilemma in Need of International Collective Action

Annual Review of Phytopathology

Vol. 61:377-401 (Volume publication date September 2023).

First published as a Review in Advance on May 30, 2023.

<https://doi.org/10.1146/annurev-phyto-021722-024626>

Several IUFRO Officeholders are among the authors!

Society is confronted by interconnected threats to ecological sustainability. Among these is the devastation of forests by destructive non-native pathogens and insects introduced through global trade, leading to the loss of critical ecosystem services and a global forest health crisis. The authors argue that the forest health crisis is a public-good social dilemma and propose a response framework that incorporates principles of collective action.

New Study Sets Out 9 Recommendations to Help Implement the EU Forest Strategy

A new EFI science-policy study assesses how national and regional policies meet the goals of the EU Forest Strategy and presents nine policy recommendations to aid the Strategy’s implementation. A team of 16 authors has analyzed policies in 15 countries in and outside the EU, as well as three regions in Spain and looked at the patterns which emerged.



Pecurul-Botines, M., Secco, L., Bouriaud, L., Giurca, A., Brockhaus, M., Brukas, V., Hoogstra-Klein, M.A., Konczal, A., Marcinekova, L., Niedzialkowski, K., Øistad, K., Pezdevšek Malovrh, Š., Pietarinen, N., Roux, J-L., Wolfslehner, B., Winkel, G. 2023. *Meeting the European Union’s Forest Strategy goals: A comparative European assessment. From Science to Policy 15. European Forest Institute.* <https://doi.org/10.36333/fs15>

State of Forest Research in 2010s – a Bibliographic Study with Special Reference to Finland, Sweden and Austria

By Risto Päivinen, Gillian Petrokofsky, William J. Harvey, Leo Petrokofsky, Pasi Puttonen, Jyrki Kangas, Eero Mikkola, Leena Byholm and Liisa Käär

<https://www.tandfonline.com/doi/full/10.1080/02827581.2023.2189296>

Using bibliometric methods, this report analyzes the volumes of global forest research and research collaboration between researchers, institutes, and countries during the period 2010–2019. Analyses based on bibliometric data used in this study reveal the status regarding publication output and trends. These analyses can provide objective evidence that is needed when developing research strategies and policies as well as allocating funding resources.

Enantiospecific Response of *Ips avulsus* (Coleoptera: Curculionidae: Scolytinae) to Ipsdienol Depends on Semiochemical Context

Joséphine Queffelec, Justin M Gaudon, Daniel R Miller, Jessica L McKenney, Jeremy D Allison
Environmental Entomology, nvad090,
<https://doi.org/10.1093/ee/nvad090>

Colonization of hosts by bark beetles is generally mediated by aggregation pheromones. Studies on the enantiomeric ratio of the pheromone ipsdienol used by *I. avulsus* have come to contradictory conclusions in part because of geographic and seasonal variation. There is growing evidence that semiochemical context, in the form of different co-baits used in trapping experiments may also play a role in the responses of *I. avulsus* to enantiomeric ratios of ipsdienol.

New: FAO Report on Urban Forestry

Borelli, S., Conigliaro, M., Di Cagno, F. 2023. *Urban forests: a global perspective*. Rome.
<https://doi.org/10.4060/cc8216en>



Urban forestry is not a one-size-fits-all solution; each city and region, with its own unique set of challenges and opportunities, requires tailored strategies. In recognition of the diversity and distinctiveness of urban forestry issues and their potential for mitigating environmental and socioeconomic inequality across the globe, FAO has asked experts around the

world to share their views on how urban forests and trees are perceived and managed in their respective geographical areas, bringing together a broad range of regional perspectives.

The primary goal of this publication is to provide a comprehensive overview of the current state of urban forestry worldwide. By showcasing the regional perspectives, insights, experiences, and case studies in urban and peri-urban forestry (UPF), we hope to inspire individuals, communities and policymakers to reimagine their relationships with urban green spaces.

Special Issue on Challenges, Opportunities and Trends for The Forest Sector in Latin America – Call for Papers

Submit manuscripts by 30 November 2023!

This special edition aims to learn about the different aspects of the development of the forestry sectors in Latin America, discussing their current situation as well as their challenges and opportunities in a changing world.

Guest editors: Virginia Morales Olmos -Department of Economics, Northeast Region, University of the Republic, Uruguay.

IUFRO Deputy Coordinator of WP 4.05.03 - Managerial economics and accounting in Latin America

Vitor Afonso Hoeflich - Postgraduate Program in Forest Engineering, Federal University of Paraná, Brazil.

IUFRO Coordinator of WP 4.05.03 - Managerial economics and accounting in Latin America, and Deputy Coordinator of WP 9.05.08 - Forest and natural resources policy.
[Click for details!](#)

New Issue of Chestnut Research Newsletter

Read the newsletter from the IUFRO Working Party (WP) 1.01.13 - [Ecology and silviculture of chestnut!](#) With this newsletter, we aim at sharing information, exchanging research ideas, and building a network among chestnut researchers. The newsletter will be published every 3 months. To learn about the WP session at the IUFRO 2024 World Congress, read about recent chestnut meetings, watch a video on the introduction of the American chestnut details the history of the species in North America, meet the Working Party members, and more.

[Click for details!](#)

Latest UN Podcast Episodes

<https://unece.org/forests/un-forest-podcast>

The future of sustainable building is wood

In the third episode of The UN Forest Podcast, Nyasha Harper-Michon, architect and activist, and Sandra Frank, co-founder of Arvet, discuss the advantages of timber construction.

Summer wildfire season is becoming longer and more destructive than ever

Host Jodi-Ann Jue Xuan Wang, youth advocate and Pan-Commonwealth Coordinator at the Commonwealth Youth Climate Change Network, and guest Prof. Jesús San-Miguel-Ayanz, leader of European Forest Fire Information System (EFFIS) and the Global Wildfire Information System, dive deep into current and future wildfire trends and the role every one of us has in shaping the way forward.



Positions

[IUFRO Noticeboard](#)

Assistant Professor – Forest Health

Apply by 29 November 2023, 11:59pm (Pacific Time)

The Department of Environmental Science, Policy, and Management (ESPM) at the University of California, Berkeley (UCB), US, invites applications for a tenure-track Assistant Professor nine-month faculty position in the area of Conservation Science.

Details: <https://aptrkr.com/4658304>

IUFRO Meetings

For a full list of meetings go to our [online calendar!](#)
Find non-IUFRO meetings on the [IUFRO Noticeboard!](#)

21-22 Nov 2023

Forum on Ukraine Forest Science and Education: Needs and Priorities for Collaboration

Hybrid, on invitation only; at IIASA, Laxenburg, Austria
Jointly organized by IIASA, NUBiP and IUFRO
IUFRO contact: Janice Burns, burns(at)iufro.org

15-16 Apr 2024

11th European Conference on Wood Modification

Florence, Italy
IUFRO [5.00.00](#)
Contact: Giacomo Goli, giacomo.goli(at)unifi.it
[Website](#)

21-24 May 2024

26th European Forum on Urban Forestry 2024 (EFUF2024)

Zagreb, Croatia
IUFRO [6.07.00](#)
Contact: Sreetheran Maruthaveeran, sreetheran(at)upm.edu.my
Rik De Vreese, rik.devreese(at)efi.int
[Website](#)

26-28 Aug 2024

International Conference on Tropical Wood - Advancing the Sustainable Use of Tropical Forests

Antananarivo, Madagascar
IUFRO [5.01.00](#)
Contact: Tahiana Ramananantoandro, tahiana.ramananantoandro(at)ens.esb-campus.fr
[Website](#)

10-14 Sep 2024

10th Pacific Regional Wood Anatomy Conference

Asahikawa, Hokkaido, Japan
IUFRO [5.00.00](#)
IUFRO [5.16.00](#)
Contact: Hisashi Abe, abeq(at)affrc.go.jp
[Website](#)

7-10 Oct 2024

International Oak Symposium: Science-Based Management for Dynamic Oak Forests

Knoxville, Tennessee, USA
IUFRO [1.01.06](#)
Call for abstracts open until 19 January 2024!
For more information about the abstract submission process, please visit the symposium website:
Contact: Stacy Clark, stacy.l.clark(at)usda.gov
Callie Schweitzer, callie.schweitzer(at)usda.gov
[Website](#)

Other Meetings

Upcoming Clearing House webinars:

15 November 2023 - 9:00 - 11:30

An introduction to Urban Forest Strategic Planning

17 November 2023 - 9:00 - 11:30

Urban Forest Governance: Achieving Effective and Collaborative Management

22 November 2023 - 9:00 - 11:30

Empower your Local Communities: Participatory Urban Forest Design and Management

24 November 2023 - 9:00 - 11:30

Protection and Restoration: How to Maintain and Improve your Urban Forest

Visit: <https://clearinghouseproject.eu/webinars>

20-23 Nov 2023

Joint Session of the ECE Committee on Forest and Forest Industries (COFFI) and the FAO European Forestry Commission (EFC)

San Marino
Contact: Liliana Annovazzi-Jakab, liliana.annovazzi-jakab(at)un.org
info.ece-faoforests(at)un.org
[Website](#)

30 Nov - 12 Dec 2023

UN Climate Change Conference

United Arab Emirates
IUFRO will be represented by Alexander Buck and Nelson Grima
Contact: Nelson Grima, grima(at)iufro.org
[Website](#)

12 Dec 2023

Webinar: Shaping Tomorrow's Workforce: Novel Green Forest Jobs and the Transition from Tradition

Online, 2:00 pm - 3:30 pm CET
Organized by Forest Europe within the "From the Roots to the Canopy" webinar series.
[Website](#)



Last Call for IUFRO's Scientist Assistance Programme (SAP) for the World Congress in Sweden on 23-29 June 2024!

The call closes on 15 November 2023!

<https://iufro2024.com/scientist-assistance-programme/>

IUFRO World Congress Keynote Speakers

Meet the confirmed keynote speakers of IUFRO2024:
<https://iufro2024.com/keynote-speakers/>



Celebrating 2K Followers!

IUFRO has reached 2000 followers on [Instagram](#) and is looking forward to welcoming more!
Thank you!