



5TH EUROPEAN AGROFORESTRY CONFERENCE



**Agroforestry
for the transition towards
sustainability
and bioeconomy**



17th - 19th MAY 2021 - ITALY

Preliminary program

PROGRAMME - 17TH MAY 2021

14.00 *Connection*

14.10 Welcome to the 5th European Agroforestry Conference

14.20 Plenary session I

Protecting the Earth and Her Human Inhabitants through Multifunctional Agroforestry
Sarah Lovell

14.50 PARALLEL SESSIONS 1

1.1 CLIMATE CHANGE - ROOM A

14.50-15.00 (O1.1_1_19) Design and potential carbon sequestration benefits of a newly- established silvopasture system in Highland Scotland

Andrew Barbour, Seonag Barbour, Robert Barbour

15.00-15.10 (O1.1_2_39) Looking into the future – what is suitable to be grown and what is authorised to be grown in Switzerland?

Sonja Kay, Felix Herzog

15.10-15.20 (O1.1_3_40) The role of watering ponds in securing water supply for livestock in Iberian dehesas in a context of climate change

Ubaldo Marín-Comitre, Susanne Schnabel, Manuel Pulido-Fernández

15.20-15.30 (O1.1_4_82) Does agroforestry modelling need a paradigm shift?

Eike Luedeling, Katja Schiffers, Cory Whitney

15.30-15.40 (O1.1_5_130) Carbon footprint and carbon sequestration comparative analysis of organic pig and cattle farms in dehesa agroforestry systems

Andrés Horrillo, Paula Gaspar, Marta Alcalá, Francisco Mesías, Ahmed Elghannam, Miguel Escribano

15.40-16.00 Discussion

1.2 ENHANCING ECOSYSTEM SERVICES PROVISION BY AGROFORESTRY SYSTEMS - ROOM B

14.50-15.00 (O1.2_1_38) Land-sharing or land-sparing for trees within upland agricultural land use in Wales, what's the way forward for rebalancing ecosystem services?

Ashley Hardaker, Tim Pagella, Mark Rayment

15.00-15.10 (O1.2_2_49) Can temperate agroforestry systems contribute to Sustainable Intensification of agriculture?

Felix Herzog, P.K.R. Nair

15.10-15.20 (O1.2_3_88) Balancing demand and supply of land-based services with suitability maps for agroforestry systems

Carmen Schwartz, Fabrizio Ungaro, Sonoko Bellingrath-Kimura, Mostafa Shaaban, Annette Piorr

15.20-15.30 (O1.2_4_100) Assessing the influence of silvopastoral practices on the provision of ecosystem services in grazed woodlands: a Delphi survey on Spanish Mediterranean mid-mountain areas

Antonio Lecegui, Ana Ma Olaizola, Elsa Varela

15.30-15.40 (O1.2_5_302) The hidden land conservation benefits of olive-based (*Olea europaea* L.) landscapes: An agroforestry investigation in the southern Mediterranean (Calabria region, Italy)

Elena Brunori, Mauro Maesano, Federico Valerio Moresi, Giorgio Matteucci, Rita Biasi, Giuseppe Scarascia Mugnozza

15.40-16.00 Discussion

1.3 AGROFORESTRY, BIODIVERSITY, AND WILDLIFE MANAGEMENT - ROOM C

14.50-15.00 (O1.3_1_7) Higher biodiversity and pollination service in temperate agroforestry than in monoculture

Alexa Varah, Hannah Jones, Jo Smith, Simon Potts

15.00-15.10 (O1.3_2_15) Characterization and management of Russian olive accessions in Gilgit-Baltistan, northern Pakistan

Muhammad Abubakkar Azmat, Asif Ali Khan, Iqrar Ahmad Khan, Andreas Buerkert, Martin Wiehle

15.10-15.20 (O1.3_3_36) Ecosystem services in short rotation coppice in agricultural land in Latvia

Dagnija Lazdina, Vita Kreslina, Guntis Brumelis, Arta Bardule, Kristaps Makovskis, Andis Bardulis

15.20-15.30 (O1.3_4_59) Woodlands and hedgerows of the Po plain: planning instruments and policies implications on biodiversity conservation

Giovanni Trentanovi, Andrea Rizzi, Thomas Campagnaro, Edoardo Alterio, Simone Iacopino, Federico Correale, Giustino Mezzalana, Tommaso Sitzia

15.30-15.40 (O1.3_5_99) The effects of tree species composition on soil-related biodiversity in shelterbelts

Nóra Szigeti, Dániel Winkler

15.40-16.00 Discussion

1.4 AGROFORESTRY AND THE LANDSCAPE - ROOM D

14.50-15.00 (O1.4_1_61) The role of agroforestry systems in the FAO Globally Important Agricultural Heritage Systems (GIAHS) programme

Martina Venturi, Erica Mazza, Remo Bertani, Antonio Santoro, Federica Corrieri, Mauro Agnoletti

15.00-15.10 (O1.4_2_95) Landscape transitions as a chance for agroforestry. The case of Park Lingezegen, The Netherlands

Suzanne van der Meulen, Derk Jan Stobbelaar, Louis Dolmans

15.10-15.20 (O1.4_3_104) Designing urban agroforestry with people in mind

John R. Taylor, Sarah T. Lovell

15.20-15.30 (O1.4_4_159) Diversifying oil palm plantations in the Southern Pacific region in Costa Rica

Ricardo Salazar-Díaz, Lucía Mack-Rivas, Mario Guevara-Bonilla

15.30-15.40 (O1.4_5_173) The role of agroforestry in a multifunctional and uncertain world: a landscapes perspective

Reith Esther, Gosling Elizabeth, Knoke Thomas, Paul Carola

15.40-16.00 Discussion

16.00 Coffee break

16.20 PARALLEL SESSIONS 2

2.1 AGROFORESTRY, QUALITY FOOD PRODUCTS AND CERTIFICATION - ROOM A

- 16.20-16.30 (O2.1_1_193) Certification of agroforestry systems and products according to the PEFC
Antonio Brunori, Francesca Dini, Eleonora Mariano
- 16.30-16.40 (O2.1_2_207) FireFlocks: Managing wildfire risk by adding value to flocks' products
Emma Soy-Massoni, Nuria Prat, Guilleme Canaleta, Oriol Vilalta
- 16.40-16.50 (O2.1_3_251) A grazed orchard system for the organic production of native breeds of pigs and poultry, and for the protection of old apple varieties
Jacek Walczak1, Wojciech Krawczyk
- 16.50-17.00 (O2.1_4_255) The potential of geographical indications for labelling in Mediterranean agroforestry systems
Lukas Flinzberger, Yves Zinngrebe, Tobias Plieninger
- 17.00-17.10 (O2.1_5_303) Understanding the resilience of agroforestry systems in a changing biosphere: a review of stable isotopes in ecophysiological studies
Marco Lauteri, Francesca Chiocchini, Marco Ciolfi, Giuseppe Russo, Claudia Consalvo, Pierluigi Paris, Andrea Pisanelli, Maria Cristina Monteverdi, Angela Augusti, Cristina Maguas
- 17.10-17.30 Discussion

2.2 POLICY - ROOM B

- 16.20-16.30 (O2.2_1_121) Examination of market competition among Hungarian forestry companies
Tibor Bareith, Arnold Csonka
- 16.30-16.40 (O2.2_2_185) AGROMIX – Introducing Policy Co-Development for Agroforestry and Mixed Farming
Ulrich Schmutz, Sara Burbi, Paola Migliorini
- 16.40-16.50 (O2.2_3_191) Policy lessons from fifty years of trees on farms in New Zealand
Donald J Mead
- 16.50-17.00 (O2.2_4_198) Agroforestry in the CAP: an analysis of RDP support in Italy
Antonio Pepe, Luca Caverni, Raoul Romano, Francesco Vanni, Saverio Maluccio
- 17.00-17.10 (O2.2_5_203) Agroforestry Options in the next CAP
Gerry Lawson, Patrick Worms
- 17.10-17.30 Discussion

3.2 AGROFORESTRY INNOVATIONS TOWARD INNOVATIVE AGROFORESTRY SYSTEMS- ROOM C

- 16.20-16.30 (O3.2_1_48) Do agroforestry practices improve tree performance compared to monoculture? Case study of agroforestry plantations including fast-growing trees
Anaïs Grosjean, Nicolas Marron, Pierrick Priault
- 16.30-16.40 (O3.2_2_139) 3 years of agroforestry implementation in Brandenburg – main findings, lessons learnt, outlook
Tobias Cremer, Ralf Bloch, Tobias Kamphoff, Elias Wodzinowski
- 16.40-16.50 (O3.2_3_152) Edible forest gardens as a special kind of agroforestry and how we can adopt to moderate climate - Example of a thirty-year-old forest garden in Central Europe

Bernhard Gruber

- 16.50-17.00 (O3.2_4_153) **Agroforestry between tradition and innovation: redesigning organic long-term experiments in Italy through participatory approach**
Elena Testani, Danilo Ceccarelli, Stefano Canali, Mariangela Diacono, Angelo Fiore, Corrado Ciaccia
- 17.00-17.10 (O3.2_5_192) **Development of adapted sylvo-arable designs for supply chains in France**
Emil Simondon, Claire Zwilling, Aurore Oberle
- 17.10-17.30 **Discussion**

3.3 MANAGING MEDITERRANEAN AGRO-SILVOPASTORAL SYSTEMS - ROOM D

- 16.20-16.30 (O3.3_1_113) **What drives silvopastoral management in mid-Mediterranean mountain areas? Addressing opportunities, synergies and barriers of forest owners and livestock farmers for joint silvopastoral management**
Elsa Varela, Ana Olaizola, Isabel Blasco, Carmen Capdevila, Antonio Lecegui, Isabel Casasús, Daniel Martín-Collado, Alberto Bernués
- 16.30-16.40 (O3.3_2_120) **Redesign and management of Silvopastoral systems in the South of France. Insights from agroecology**
Stéphane Bellon
- 16.40-16.50 (O3.3_3_160) **Interaction between beef herd and olive grove in Lazio (Italy) organic farm**
Miriam Iacurto, Francesca Pisseri, Davide Bochicchio, David Meo Zilio, Anna Beatrice Federici
- 16.50-17.00 (O3.3_4_208) **Using quantile regression to evaluate the impact of different factors in the cork calliper of cork oak trees in montado agroforestry ecosystem**
Joana Amaral Paulo, Paulo Neves Firmino, Sónia Pacheco Faias, Margarida Tomé
- 17.00-17.10 (O3.3_5_228) **Assessing the long-term persistence of legume-rich mixtures sown in Mediterranean Dehesas through NDVI analysis**
Antonio Pulina, Ana Hernández-Esteban, Giovanna Seddaiu, Pier Paolo Roggero, Gerardo Moreno
- 17.10-17.30 **Discussion**
- 17.30 **Coffee break**

17:50 PARALLEL SESSION 3

1.1 CLIMATE CHANGE - ROOM A

- 17.50-18.00 (O1.1_6_199) **Artificial shading to mimic the effects of trees on old wheat varieties for future implementation in agroforestry systems**
Anna Panozzo, Elia Tognetti, Giuseppe Barion, Manuel Ferrari, Alberto Di Stefano, Cristian Dal Cortivo, Teofilo Vamerli
- 18.00-18.10 (O1.1_7_200) **Grazing iberian dehesa: Carbon sequestration offset livestock emissions**
Mireia Llorente, Gerardo Moreno
- 18.10-18.20 (O1.1_8_246) **Assessing the adaptability of maize varieties in silvoarable systems, a case study of Galicia region, Spain**
Davide Primucci, Nuria Ferreiro-Domínguez, Antonio Rigueiro-Rodríguez, Maria Rosa Mosquera-Losada
- 18.20-18.30 (O1.1_9_258) **From Drawdown to Regeneration: natural solutions to create the future we want**

Chad Frischmann, Mamta Mehra, Eric Toensmeier, Ariani Wartenberg, Daniel Kane, Zhen Han, Ruth Metzel

18.30-18.50 Discussion

3.1 AGROFORESTRY AND WILDFIRE PREVENTION - ROOM B

17.50-18.00 (O3.1_1_20) Forest fire prevention and agroforestry: the case of the Zonza forest (South Corsica, France)

Antonella Massaiu, Muriel Tiger

18.00-18.10 (O3.1_2_46) Swidden Agriculture as a Sustainable Production System: a case study on soils in the Southeast Atlantic Forest of Brazil

Anna M. Visscher, Manuela Franco de Carvalho da Silva Pereira, José Lavres Jr, Carlos, Eduardo Pellegrino Cerri, Hilton Thadeu Zarate do Couto, Ciro Abbud Righi

18.10-18.20 (O3.1_3_57) Fire as a tool for territorial management in agroforestry contexts

Cabiddu S., Casula A., Casula F., Chessa M., Monaci G., Murrancia S., Pinna T., Muntoni G., Dettori G.

18.20-18.30 (O3.1_4_260) Improving silvopasture farming systems in highly biodiverse areas through the use of aerial images

Jose Javier Santiago-Freijanes, Nuria Ferreiro-Domínguez, Francisco Javier Rodríguez-Rigueiro, Antonio Rigueiro-Rodríguez, María Rosa Mosquera-Losada

18.30.18.50.1 Discussion

3.2 - AGROFORESTRY INNOVATIONS TOWARD INNOVATIVE AGROFORESTRY SYSTEMS - ROOM C

17.50-18.00 (O3.2_6_211) Differences in measured and modeled transmitted photosynthetically active radiation in different orchards and their impact on understory crop photosynthesis

Adolfo Rosati, Kevin Wolz, Lora Murphy, Michael Gold

18.00-18.10 (O3.2_7_250) From early adopters to mainstream: Facilitating the developing agroforestry community in the Netherlands

Andrew Dawson, Donatella Gasparro, Fogelina Cuperus, Maureen Schoutsen, Isabella Seli Noren, Wijnand Sukkel

18.10-18.20 (O3.2_8_287) Paulownia in Northern Italy and its potential use in silvoarable systems

Giustino Mezzalana, Federico Correale, Loris Agostinetto

18.20-18.30 (O3.2_9_2) Achieving sustainable agricultural production under farmer conditions in maize-gliciridia intercropping in Salima District, central Malawi

Harrington Nyirenda

18.30-18.50 Discussion

3.3 MANAGING MEDITERRANEAN AGRO-SILVOPASTORAL SYSTEMS - ROOM D

17.50-18.00 (O3.3_6_265) Shrub encroachment combines with drought and fire to decrease Quercus suber tree resilience in silvopastoral cork oak ecosystems

Maria C. Caldeira, Xavier Lecomte, Raquel Lobo-do-Vale, Christiane Werner, Miguel N. Bugalho

18.00-18.10 (O3.3_7_338) Does livestock grazing affects soil properties in an oak silvopastoral system? Results from a traditional system in Western Greece

Theodoros Notis, Andreas Papadopoulos, Stavroula Galanopoulou, Anastasia Pantera

18.10-18.20 (O3.3_8_345) Adaptive Multi-Paddock model: a sustainable management practice for Mediterranean silvopastoral systems

A. Frongia, A. Pulina, M. Cuboni, M.C. Caria, T. Pala, D. Nieddu, D. Dettori, C. Masala, S. Bagella, A. Franca, P.P. Roggero, G. Seddaiu

18.20-18.30 **(O3.3_9_27) The agroforestry in the new Algerian forest strategy: state of art, socio-economic importance and future perspectives**

Sonia Marongiu, Mohamed Abes, Assia Azzi

18.30-18.50 **Discussion**

18.50 Closing the first day

PROGRAMME - 18TH MAY 2021

- 14.00 *Connection*
- 14.10 Welcome from the EURAF board
- 14.20 Plenary session II
- Agricultural heritage systems and agroforestry
Mauro Agnoletti
- 14.50 Plenary session III
- Agroforestry for sustainable animal production systems
Fabiana Villa Alves
- 15.20 Coffee break

15.40 PARALLEL SESSION 4

1.1 CLIMATE CHANGE - ROOM A

- 15.40-15.50 (O1.1_10_326) Tree cover affects the soil C balance in the Mediterranean cork-oak based silvopastoral systems
Antonio Pulina, Chiara Cappai, Sergio Campus, Roberto Lai, Lorenzo Salis, Pier Paolo Roggero, Giovanna Seddaiu
- 15.50-16.00 (O1.1_11_30) Silvopasture as a best practice for achieving good animal welfare in a changing and changeable climate: a review
Lindsay Whistance, Jo Smith
- 16.00-16.10 (O1.1_12_31) Cashew (*Anacardium occidentale* L.) agroforestry systems as a strategy for adapting to climate variability in the Sudanian zone of Côte d'Ivoire
Timité Nakouana, Kouakou Akoua Tamia Madelaine, Barima Yao Sadaïou Sabas
- 16.10-16.20 (O1.1_13_33) Potential of agroforestry in climate change mitigation - Assessment of greenhouse gas emissions in four different beef cattle production systems in Finland
Alice Ripamonti, Michael den Herder, Anna Sandrucci
- 16.20-16.30 (O1.1_14_54) Agroforestry and climate change –can almonds be grown in northern Switzerland?
Adrian Reutimann, Sonja Kay, Felix Herzog, Andreas Naef
- 16.30-16.50 Discussion

1.2 ECOSYSTEM SERVICES PROVISION BY AGROFORESTRY SYSTEMS - ROOM B

- 15.40-15.50 (O1.2_6_339) Plant diversity and ecosystem services of silvopastoral Mediterranean agroforestry systems

Pier Paolo Roggero, Antonio Pulina, Giovanna Seddaiu, Maria Carmela Caria, Simonetta Bagella

- 15.50-16.00 **(O1.2_7_347) Alley cropping with fruiting shrubs – a natural solution for economic and ecological sustainability in the Canadian Prairie**
Fardausi Akhter, William May, Raju Soolanayakanahally, Laura Poppy, Luke Bainard
- 16.00-16.10 **(O1.2_8_34) Distribution and nutrient content of poplar fine roots in an agroforestry crop alley in Northern Germany**
Anita Swieter, Magdalena Gara, Maren Langhof, Jörg Michael Greef, Rolf Nieder
- 16.10-16.20 **(O1.2_9_86) The function of kānuka (Kunzeaericoides) as a silvopastoral tree species to improve pasture health and reduce soil erosion in New Zealand**
Thomas H. Mackay-Smith, Lucy Burkitt, Ignacio F. López, Janet Reid
- 16.20-16.30 **(O1.2_10_101) Defining research priorities in complex Agroforestry systems**
Katja Schiffrers, Cory Whitney, Eike Luedeling
- 16.30-16.50 **Discussion**

1.3 AGROFORESTRY, BIODIVERSITY, AND WILDLIFE MANAGEMENT - ROOM C

- 15.40-15.50 **(O1.3_6_220) Conserving threatened beneficial insects: bees, wasps and hoverflies in UK silvoarable systems**
Tom Staton, Richard J. Walters, Jo Smith, Tom D. Breeze, Sian K. Davies, Robbie D. Girling
- 15.50-16.00 **(O1.3_7_283) Tree rows change the soil biodiversity abundance and repartition within the first year of plantation at an experimental agroforestry site in Ramecourt (Northern France)**
Caroline Choma, Christelle Pruvot, François Delbende, Sitraka Andrianarisoa
- 16.00-16.10 **(O1.3_8_174) Intensity and channelling of soil microbiological processes under the influence of shelterbelts**
Svitlana Sydorenko, Serhii Sydorenko, Natalia Vysotska
- 16.10-16.20 **(O1.3_9_257) Phytosociology of Weeds in agroforestry system managements**
Monica Helena Martins, Maria Beatriz Bernardes Soares, Ana Carolina Oliveira, Bruna Beatriz Correiar, Maria Teresa Vilela Nogueira Abdo
- 16.20-16.30 **(O1.3_10_297) Agroforestry as on-farm conservation strategy for *Virola surinamensis*, an endangered Amazonian species**
Fátima Conceição Márquez Piña-Rodrigues, Karina Martins, Ivonir Piotrowski, José Mauro Santana da Silva, Aparecida Juliana Martins Corrêa, Roselea Oliveira de Almeida, Miguel Luiz Menezes Freitas
- 16.30-16.50 **Discussion**

1.4 AGROFORESTRY AND THE LANDSCAPE - ROOM D

- 15.40-15.50 **(O1.4_6_204) The Meriagos: landscape value from Sardinian agro-forestry system**
Giuseppe Pulina, Luisa Carta, Giovanni Piras, Manuela Manca, Giampiero Incollu, Antonio Melchiorre Carroni
- 15.50-16.00 **(O1.4_7_223) Monitoring of gypsy moth in Sardinian cork oak forests and woodlands: past, present and future implementations**

Roberto Mannu, Arturo Cocco, Pietro Luciano, Maurizio Olivieri, Giuseppino Pira, Pino Angelo Ruiu, Salvatore Seddaiu, Andrea Lentini

16.00-16.10 **(O1.4_8_71) Enhancing Terraced Landscapes for Ensuring a Sustainable Development of Traditional Agroforestry Systems. A case study in Piedmont (Italy).**

Enrico Pomatto, Paola Gullino, Marco Devecchi, Federica Larcher

16.10-16.20 **(O1.4_9_72) Spatial models as a tool to evaluate afforestation actions
In agrosilvopastoral systems**

J. Francisco Lavado Contador, E. Herguido Sevillano, S. Schnabel, M. Pulido Fernández, A. Gómez Gutiérrez

16.20-16.30 **(O1.4_10_81) Farm as park. The role of landscape and architecture design towards sustainable landscape transformations in Sardinia**

Roberto Sanna

16.30-16.50 **Discussion**

16.50 **Coffee Break**

17.10 PARALLEL SESSION 5

1.1 CLIMATE CHANGE - ROOM A

17.10-17.20 **(O1.1_15_98) Ink disease threaten *Castanea sativa* in agroforestry systems in Sardinia (Italy): prevention and control strategies**

Bruno Scanu, Virgilio Balmas, Lucia Maddau, Vanda Prota, Salvatorica Serra, Quirico Migheli

17.20-17.30 **(O1.1_16_102) Forty years of growth-climate relationships in a progeny test of *Pinus pinaster* in Sardinia**

Elio Fierravanti, Serena Antonucci, Giovanni Santopuoli, Roberto Tognetti, Marco Marchetti

17.30-17.40 **(O1.1_17_126) Agroforestry: soil adaptation practice to climate change**

Inass Zayani, Karima Bouhafa, Mohammed Ammari, Laïla Benallal

17.40-17.50 **(O1.1_18_146) PASTORALP project: expected impacts of climate change on future distribution and development of alpine grasslands and wooded pastures**

Sergi Costafreda-Aumedes, Lorenzo Brilli, Giovanni Argenti, Mauro Bassignana, Gianni Bellocchi, Marco Bindi, Philippe Choler, Gianluca Filippa, Marco Moriondo, Edoardo Bellini, Nicolina Staglianò, Camilla Dibari

17.50-18.10 **Discussion**

3.2 AGROFORESTRY INNOVATIONS TOWARD INNOVATIVE AGROFORESTRY SYSTEMS - ROOM B

17.10-17.20 **(O3.2_10_4) Time and care in food forests**

Inez Dekker

17.20-17.30 **(O3.2_11_8) Nepalese Home Gardens: Prospects and Challenges**

Swoyambhu Man Amatya, Edwin Cedamon, Ian Nuberg

17.30-17.40 **(O3.2_12_41) Integrating the dynamics of soil erosion under agroforestry systems in process based dynamic crop models: challenges and the way forward**

M. Habib-ur-Rahman, Thomas Gaiser, Hella Ellen Ahrends

17.40-17.50 **(O3.2_13_47) Agroforestry: New perspectives for water conservation/development and regional added value in rural economy**

Camilla Bentkamp, Zaira Ambu, Frank Wagener, Dr. Andreas Stowasser, Lars Stratmann, Tabea Gerhardt, Prof. Dr. Peter Heck

17.50-18.10 Discussion

4.1 EDUCATION, INFORMATION SHARING AND AWARENESS RAISING IN AGROFORESTRY - ROOM C

17.10-17.20 (O4.1_1_60) Hands-on tools for participative development of agroforestry implementation plans: the Agroforestry Planner and the Adaptive Farm Plan methodology as inspiring examples

Bert Reubens, Marco Bijl, Tom Coussement, Eurídice Leyequén

17.20-17.30 (O4.1_2_64) Linking scientific and empirical knowledge: an interactive web app to design agroforestry market gardening systems

Raphael Paut, Rodolphe Sabatier, Marc Tchamitchian

17.30-17.40 (O4.1_3_115) Participative formats to promote agroforestry in Germany – insights, challenges, experiences and recommendations

Rico Hübner, Wolfgang Zehlius-Eckert, Carmen Schulze, Christian Böhm

17.40-17.50 Discussion

4.2 AGROFORESTRY AND RURAL TOURISM - ROOM D

17.10-17.20 (O4.2_1_65) Visual appreciation of tree-based intercropping systems by rural residents in Quebec, Canada

Geneviève Laroche, Gérald Domon, Alain Olivier

17.20-17.30 (O4.2_2_93) Developing garden tourism and services – case of Garden Pearls Network in Estonia and Latvia

Marit Piirman, Tatjana Koor, Kandela Õun

17.30-17.40 (O4.2_3_293) Agroforestry in the mountainous area of Evritania (Greece)

Vasiliki Lappa, Anastasia Pantera, Andreas Papadopoulos

17.40-17.50 (O4.2_4_314) Olive trees and iris flowers in Tuscany: an agroforestry system to exploit rural tourism

Francesca Camilli, Valentina Marchi

17.50-18.10 Discussion

18.10 Plenary session IV

Making Agroforestry Mainstream: Lessons on Communicating Agroforestry to the Private Sector

Felipe Villela

18.20 Closing the second day

PROGRAMME - 19TH MAY 2021

- 14.00 *Connection*
- 14.10 Welcome from the EURAF board
- 14.20 Plenary session V
- Agroforestry for sustainability and resilience
Bart Muys

14.50 PARALLEL SESSION 6

1.1 CLIMATE CHANGE - ROOM A

- 14.50-15.00 (O1.1_19_177) Temperature regulation: how agroforestry helps climate change mitigation
Claire Lemarié
- 15.00-15.10 (O1.1_20_218) Soil Carbon Sequestration in Hazelnut and Chestnut Agroforestry Systems: A Review and Tribute
Jonah Adels, Emily Sigman, Lexi Weinraub, Mark Bradford
- 15.10-15.20 (O1.1_21_240) The transformation of agricultural systems into agro-forestry systems as a system of adaptation to climate and economic changes: some Sicilian case studies
Tommaso La Mantia, Michele Russo, Paola Quatrini, Rafael da Silveira Bueno
- 15.20-15.30 (O1.1_22_243) Wheat varieties established under walnut of different ages In Galicia (NW Spain)
Nuria Ferreiro-Domínguez, Papadopoulus P, Antonio Rigueiro-Rodríguez, Maria Rosa Mosquera-Losada
- 15.30-15.40 (O1.1_23_244) Variation of soil organic matter in silvopastoral systems established under *Pinus sylvestris* L. with celtic pigs in Galicia (Spain)
Maria Rosa Mosquera-Losada, Antonio Rigueiro-Rodríguez, Antonio Iglesias-Becerra, Nuria Ferreiro-Domínguez
- 15.40-16.00 Discussion

1.2 ENHANCING ECOSYSTEM SERVICES PROVISION BY AGROFORESTRY SYSTEMS - ROOM B

- 14.50-15.00 (1.2_11_111) Studies on the diversity of the bacterial community associated with symbiosis between *Tuber borchii* and *Quercus ilex* in different Sardinian forest
Giovanni Ragaglia, Aurélie Deveau, Nicoletta Pasqualina Mangia, Marongiu Raffaele Enrico Lancellotti, Antonio Franceschini, Pietrino Deiana
- 15.00-15.10 (O1.2_12_167) Microclimate, water availability and crop productivity

In temperate agroforestry systems

Marie Majaura, Christian Böhm, Dirk Freese

- 15.10-15.20 (O1.2_13_248) Study of residual effects of sewage sludge application in a silvopastoral system on soil bacterial communities using a high-throughput sequencing technology

Vanessa Alvarez-Lopez, Alexander Lamas, Beatriz Vazquez, Maria Rosa Mosquera-Losada

- 15.20-15.30 (O1.2_14_267) Spread wooded riparian buffer areas can increase significantly the phyto-depuration service

Bruna Gumiero, Irene Martini, Barbara Lazzaro, Giustino Mezzalana

- 15.30-15.40 (O1.2_15_272) Ecosystem services assessment, financial performance evaluation, and exploration of opportunities for amplification of agroforestry: learning from a case study in Devon UK

Rafael Pompa, Martin Lukac, Richard Tranter

- 15.40-16.00 Discussion

3.2 AGROFORESTRY INNOVATIONS TOWARD INNOVATIVE AGROFORESTRY SYSTEMS - ROOM C

- 14.50-15.00 (O3.2_14_103) Forestry areas as an alternative place for the honey bee *Apis mellifera* L. breeding in Poland

Sławomir Bakier, Maja Szykut, Grzegorz Kuryło

- 15.00-15.10 (O3.2_15_106) Agroforestry with refugees in northern Uganda

Erik F. Acanakwo, Clement Okia

- 15.10-15.20 (O3.2_16_119) Above ground dendromass of black locust (*Robinia pseudoacacia* L.) in alley cropping systems

Veronika Honfy, Attila Borovics, János Rásó, Zsolt Keserű

- 15.20-15.30 (O3.2_17_169) The supporting system in rural development activities in Turkey: agroforestry practices under the poplar plantations

Selda Akgül, Ercan Velioğlu

- 15.30-15.40 (O3.2_18_205) Productivity of a soybean-sorghum two-year crop rotation in an innovative poplar short rotation coppice silvoarable system

Alberto Mantino, Giovanni Pecchioni, Iride Volpi, Simona Bosco, Federico Dragoni, Cristiano Tozzini, Fabio Taccini, Marcello Mele, Giorgio Ragagnini

- 15.40-16.00 Discussion

3.3 MANAGING MEDITERRANEAN AGRO-SILVOPASTORAL SYSTEMS - ROOM D

- 14.50-15.00 (O3.3_10_29) Maremmana breed, woodland environment and cattle behaviour

Jacopo Goracci, Francesco Tiezzi, Alessio Del Tongo

- 15.00-15.10 (O3.3_11_212) Simulating the effect of light availability reduction on grass and legume swards in a Mediterranean rainfed plot trial

Lorenzo Gabriele Tramacere, Alberto Mantino, Iride Volpi, Massimo Sbrana, Marco Mazzoncini, Alice Cappucci, Marcello Mele, Giorgio Ragagnini, Daniele Antichi

- 15.10-15.20 (O3.3_12_233) Olive grove and livestock: Project on pasture management schemes for dry sheep

Francesca Pisseri, Stefano Spinelli, Michelangelo Benza, Nicola Furlanetto, Miriam Iacurto, Virginia Altavilla

15.20-15.30 **(O3.3_14_301) Grazed orchards in France: different forms of livestock integration and their implications for fruit growers' practices**

Arnaud Dufils, Raphaël Paut

15.30-15.40 **(O3.3_15_352) Observations on a livestock cattle system in a Mediterranean mountain pasture**

Marco Acciaro, Carla Cabboi, Gianni Battacone

15.40-16.00 *Discussion*

4.1 EDUCATION, INFORMATION SHARING, AND AWARENESS RAISING IN AGROFORESTRY - ROOM E

14.50-15.00 **(O4.1_4_125) Green entrepreneurship and business skills needed for micro-entrepreneurs – case of Estonia**

Marit Piirman, Heli Tooman

15.00-15.10 **(O4.1_5_128) Stories of creativity and collaboration: how women access land for perennial agriculture in the Midwest**

Barbara Decre

15.10-15.20 **(O4.1_6_158) Public-private partnerships for agroforestry investment and adoption in the USA**

Kevin J Wolz, Keefe Keeley, Scott Brainard, Bill Davison

15.20-15.30 **(O4.1_7_168) The participative approach to promote innovations in agroforestry: the AFINET project in Italy**

Claudia Consalvo, Andrea Pisanelli, Giuseppe Russo, Marco Cioffi, Marco Lauteri, Francesca Chiocchini, Pierluigi Paris

15.30-15.40 **(O4.1_8_184) Linking scientific knowledge to management practices in Agroforestry: the pivotal role of higher education**

Tommaso Anfodillo, Giustino Mezzalana, Anna Panozzo, Teofilo Vamerali

15.40-16.00 **Discussion**

16.00 **Coffee break**

16.20 PARALLEL SESSION 7

1.1 CLIMATE CHANGE - ROOM A

16.20-16.30 **(O1.1_24_259) Drought-shade interactions on winter pea induce carbon source-sink mechanisms that may lead to higher yield stability in a mature alley-cropping system**

Guillaume Blanchet, Mattia Bradley, Jean-François Bourdoncle, Lydie Dufour, Alain Sellier, Grégoire Vincent, Christian Dupraz, Marie Gosme

16.30-16.40 **(O1.1_25_262) Analysis of agroforestry systems productivity compared to afforestation in a climate change context in Galicia**

Rodríguez-Rigueiro F.J., Ferreiro-Domínguez N., Mosquera-Losada M.R.

16.40-16.50 **(O1.1_26_278) Tree coverage in Sardinian dairy sheep systems: farm characteristics and environmental implications**

Pasquale Arca, Bachisio Arca, Alberto S. Atzori, Antonello Cannas, Salvatore Contini, Delia Cossu, Mauro Decandia, Pierpaolo Duce, Mondina F. Lunesu, Giovanni Molle, Paola Sau, Gabriella M. Serra, Domenico Usai, Enrico Vagnoni, Antonello Franca

16.50-17.00 **(O1.1_27_304) Quantitative assessment of carbon sequestration and oxygen production by oak windbreaks growing in the Forest-Steppe zone of Ukraine**

Vasyl Yukhnovskyi, Vira Moroz, Ihor Ivaniuk

17.00-17.10 **(O1.1_28_330) Variation of yield in varieties of wheat and rye under shade conditions**

Franco-Grandas T.I., Nuria Ferreiro-Domínguez, Antonio Rigueiro-Rodríguez, María Rosa Mosquera-Losada

17.10-17.20 **(O1.1_29_348) Exploring the potential of coffee agroforestry systems to productivity, adaptation, and mitigation: a system typology approach**

Leonel Lara-Estrada

17.20-17.40 **Discussion**

1.4 AGROFORESTRY AND THE LANDSCAPE - ROOM B

16.20-16.30 **(O1.4_11_249) The decline of the cork oak growing in Sicily is accompanied by the loss of the functions proper to agroforestry systems**

Emilio Badalamenti, Giovanna Sala, Rafael da Silveira Bueno, Tommaso La Mantia

16.30-16.40 **(O1.4_12_264) Silvopastoralism and potential use in Europe**

Jose Javier Santiago-Freijanes, Francisco Javier Rodríguez-Rigueiro, Vanessa Álvarez-López, Tamara Isabel Franco-Grandas, Nuria Ferreiro-Domínguez, Antonio Rigueiro-Rodríguez, María Rosa Mosquera-Losada

16.40-16.50 **(O1.4_13_289) Innovative beef cattle grazing systems for the restoration of abandoned lands in the Alpine and Mediterranean mountains (iGRAL)**

Giampiero Lombardi, Maria Sitzia, Marcello Verdinelli, Giovanna Seddaiu, Simonetta Bagella, Michele Lonati, Marco Acciaro, Margherita Addis, Luciano Gutierrez, Lorenzo Salis, Stefano Arrizza, Maria Leonarda Fadda, Stefania Bagella, Marco Pittarello, Ginevra Nota, Maria Carmela Caria, Giovanna Piga, Giovanni Riviaccio, Marco Cuboni, Alberto Tanda, Pier Paolo Roggero

16.50-17.00 **Discussion**

4.1 EDUCATION, INFORMATION SHARING AND AWARENESS RAISING IN AGROFORESTRY - ROOM C

16.20-16.30 **(O4.1_9_202) Making Agroforestry Mainstream: Lessons on Communicating Agroforestry to the Private Sector**

Felipe Villela, Tirion Keatinge

16.30-16.40 **(O4.1_10_217) Paraíba River Basin Agroforestry network: teaching methodology, participatory research and rural extension in Agroecology promotion**

Thiago Ribeiro Coutinho, Antonio Carlos Pries Devide, Maria Teresa Vilela Nogueira Abdo

16.40-16.50 **(O4.1_11_261) Raising awareness among stakeholders concerning Agroforestry systems and benefits of native species cultivated in these systems**

Ana Lucía Cadena González, Tillmann Buttschardt

16.50-17.00 (O4.1_12_281) Yield, above-ground carbon stock and price dynamics of selected agroforestry tree species in district swabi, khyber pakhtunkhwa
Naeem Ullah, Majid Hussain, Muhammad Ibrahim

17.00-17.10 (O4.1_13_334) The network of AIAF demonstrative farms: the example of the “Casaria” farm
Giustino Mezzalira, Teofilo Vamerali, Anna Panozzo, Mauro Sangiovanni, Federico Correale Santacroce

17.10-17.30 Discussion

1.2 ENHANCING ECOSYSTEM SERVICES PROVISION BY AGROFORESTRY SYSTEMS - ROOM D

16.20-16.30 (O1.2_16_274) What agroforestry is at the service of the restoration of a Camargue riparian forest? - Case study of the Psalmody riparian forest (Gard – Occitanie)
Stéphane Person, Laurent Limouzy

16.30-16.40 (O1.2_17_296) FOOD FOR FOREST – Restorative Silvi-Pastoralism: the Food that Feeds the Forest
Roberta Berretti, Simone Ravetto Enri, Marco Pittarello, Davide Barberis, Davide Ascoli, Ginevra Nota, Dino Genovese, Paolo Cornale, Giampiero Lombardi, Michele Lonati, Renzo Motta, Luca Maria Battaglini

16.40-16.50 (O1.2_18_333) How to revitalize abandoned mountain areas? An agroforestry approach for livestock farmers in the alpine region
Martina Re, Francesca Pisseri, Giorgia Robbiati, Stefano Carlesi, Silvia Baronti, Anita Maienza, Fabrizio Ungaro, Francesco Vaccari, Paolo Barberi

16.50-17.10 Discussion

1.3 AGROFORESTRY, BIODIVERSITY AND WILDLIFE MANAGEMENT - ROOM D

17.10-17.20 (O1.3_11_322) Practicing sustainable agroforestry for biodiversity conservation and sustained livelihood option for tribal in Jharkhand (India)
Sanjeev Kumar

17.20-17.30 (O1.3_12_351) Impact of agricultural practices on the abundance and diversity of mycorrhizae in agroforestry systems
Fabien Balaguer, Alexandre Parizel, Aurélie Charton

17.30-17.40 Discussion

17.40 Coffee break

18.00 Plenary session closing the conference