



4th European Agroforestry Conference

Agroforestry as Sustainable Land Use

28-30 May 2018, Nijmegen, The Netherlands



Monday-28th May 2018

17h00-18h30: Poster Session 1

Factors of success and failure in the transition into agroforestry

1. Using a system innovation's approach for stimulating agroforestry adoption
Cuperus F, Schoutsen M, Sukkel W, Selin Noren I, Wijnands F
2. Constraints towards organic conversion in agroforestry systems: the case of dehesa livestock farms in Extremadura (SW Spain)
Horrillo A, Elghannam A, Gaspar P, Escribano M, Mesías FJ
3. Exploring the economic potential of two food forest farms in The Netherlands
Oosterhof G, Masselink S, Van Dorp D, Van Dooren N, Eweg R, Stobbelaar DJ

Costs and revenues of agroforestry on the scale of the individual farm, a region and a state; proven practice and theoretical models

4. Agroforestry network in Brabant, The Netherlands: how farmers develop a new sustainable and economically rentable farming system and how they can contribute to regional ecosystem functions
Rombouts P, Luske B, Vonk M, van Veluw K

Agroforestry policies

5. Agricultural wood as an ecological focus area: conventional German farmers' attitudes
Drittler L, Theuvsen L
6. Agroforestry can mitigate environmental problems in European agricultural deficit areas
Kay S, Roces-Díaz J, Crous-Duran J, Giannitsopoulos M, Graves A, den Herder M, Moreno G, Mosquera-Losada MR, Pantera A, Palma J, Szerencsits E, Herzog F
7. Agroforestry definitions and practices for policy makers
Mosquera-Losada MR, Santiago-Freijanes JJ, Moreno G, den Herder M, Aldrey JA, Rois-Díaz M, Ferreiro-Domínguez N, Pantera A, Rigueiro-Rodríguez A
8. Agroforestry and the environment in the future European CAP
Mosquera-Losada MR, Santiago-Freijanes JJ, Aldrey JA, Rois-Díaz M, Ferreiro-Domínguez N, Pantera A, Rigueiro-Rodríguez A
9. Rural development as Pillar II to foster agroforestry
Mosquera-Losada MR, Santiago-Freijanes JJ, Aldrey JA, Rois-Díaz M, Ferreiro-Domínguez N, Rigueiro-Rodríguez A
10. Linear woody features on homegardens in European Union
Santiago-Freijanes JJ, Aldrey-Vázquez JA, Rigueiro-Rodríguez A, Mosquera-Losada MR
11. Homegardens: agriculture in the city as an agroforestry practice
Santiago-Freijanes JJ, Mosquera-Losada MR, Aldrey-Vázquez JA, Rigueiro-Rodríguez A

Agroforestry as a form of sustainable land use to fight against climate change

12. Hedgerow agroforestry in England and Waller: increasing width to sequester additional carbon
Axe MS, Grange ID, Conway JS
13. Temporal comparison of greenhouse gas emissions between four different riparian land-use types in Southern Ontario, Canada
Baskerville M, De Carlo N, Oelbermann M
14. Can agroforestry improve soil water and temperature dynamics in agriculture? A case study with syntropic farming in Bahia, Brazil
Damant G, Villela F
15. Carbon storage in the soil under different land uses in the South of Portugal
Ferreiro-Domínguez N, Palma JHN, Paulo JA, Rigueiro-Rodríguez A, Mosquera-Losada MR

16. Microclimate of a special shelterbelt system under arid site conditions in Hungary
Honfy V, Bakti B, Borovics A, Rásó J, Keserű Z
 17. Soil erosion risk and agroforestry implementation in Tuscany: locating best practices for vulnerability management with a GIS-based scenario approach
Mantino A, Volpi I, Dragoni, Cappucci A, Mele M, Bonari E, Pecchioni G, Annecchini F, Ragolini G
 18. Silvopastoral agroforestry – an option to support sustainable grassland intensification
McAdam JH, Olave R, Fornara D
 19. Comparison of observed data and high-resolution regional climate simulations for process based modelling
Palma JHN, Cardoso RM, Soares PMM, Oliveira TS, Tomé M
 20. Development of multi-use concepts to fight against climate change in the project MUNTER
Wagener F, Böhmer J, Seiler S, Thomas K, Plogmacher A
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Wednesday-30th May 2018

11h00-12h00: Poster Session 2

Testimonies of farmers from Europe

21. Janmiekeshoeve: an organic dairy farm in transition to a biodiverse agroforestry system
Heesakkers J

Environmental benefits of agroforestry

22. Agroforestry system benefits to environment: carbon stock, biomass production between rows and soil attributes
Abdo MTVN, Siqueira CCZ, Chiba MK, Santos GXL, Rotta M, Rosa JM, Martins ALM, Pissarra TCT, Fabri EG, Chaves TH
23. Hedgerows as form of agroforestry to sequester and store carbon in agricultural landscapes: a review
Blair J, Olave R, McAdam J
24. Agroforestry systems as alternative for conserving native plant species and improving agro-ecological knowledge
Cadena González AL, Buttschardt T
25. Impact of trees on soil nitrogen dynamics in temperate silvoarable agroforestry systems

- Coussement T, Janssens P, Elsen A, Pardon P, Nelissen V, Reubens B, Vandendriessche H*
26. Time and crops influences on carabids taxonomic and functional diversities within a pesticide-free agroforestry cropping system
Lagier C, Garcia E, BenSarsa L, Vannieuwenhuysse A, Seyed-Esmail A, Oheix S, Simon L, Mercadal AM, Grandgirard D
27. Exploring the relationships among bio-physical and socio-cultural ecosystem services of agroforestry systems across Europe
Roces-Diaz JV, Rolo V, Kay S, Moreno G, Szerencsits E, Fagerholm N, Plieninger T, Torralba M, Graves A, Giannitsopoulos M, Palma J, Herzog
28. A multi-factorial sustainability assessment of five European agroforestry farms
Smith LG, Smith J, Wolfe M, Ghaley BB, Pisanelli A, Russo G, Sandor M, Gliga A, Wawer R, Borek R
29. Agroforestry practices for water quality and quantity benefits
Udawatta RP
30. Combining of biomass production for energy with agroforestry – experience from short rotation coppice with poultry breeding
Weger J, Vávrová K, Bubeník J, Lojka B, Houška J, Kotrba R

Biodiversity and added value

31. Exploring the nutritional value of feedstuffs in two food-forest case studies in The Netherlands
Hanegraaf MC, Van der Horst N, Oosterhof G
32. Fast growing tree species in agroforestry systems: soil, tree growth and understory biodiversity
Rodríguez-Rigueiro FJ, Ferreiro-Domínguez N, Rigueiro-Rodríguez A, Mosquera-Losada MR

Tree fodder: food for thoughts?

33. Feeding value of different plant functional types of oak Mediterranean ecosystems
Castro M, Fernández-Núñez E

Innovations in agroforestry

34. Combining ornamental tree and forage crop production using both field experiments and modelling approach in The Netherlands
Erdem F, Hoekstra N, Luske B, Crous-Duran J, Hautier Y, Van Eekeren N
35. Breeding durum wheat for agroforestry: what to look for?

Gosme M, Panozzo A, Desclaux D

36. Biomass production and concentration of rosmarinic acid in *Melissa officinalis* L. established under *Prunus avium* L.

Mosquera-Losada MR, Ferreiro-Domínguez N, Romero-Franco R, González-Hernández MP, Rigueiro-Rodríguez A

37. Breeding for agroforestry: is it only breeding for shade?

Panozzo A, Desclaux D

38. Agroforestry systems and innovation in extra-virgin olive oil chain in Central Italy

Pisanelli A, Consalvo C, Martini E, Lauteri M, Camilli F, Paris P

39. Bio-mulch: an effective tool of weed suppression in alley cropping

Vityi A, Kiss Szigeti N, Marosvölgyi B, Schettler P

40. Effects of shade on black currant physiology and productivity

Wolske E, Branham B, Wolz K

15h00-16h00: Poster Session 2 (continued)

Social and economic aspects in developing agroforestry

41. Differences within similarities: typology of farming strategies and natural resource management in two *ejidos* of Jalisco, Mexico

Monroy-Sais AS, García-Frapolli E, Mora-Ardila F, Skutsch M, Gerritsen PRW, Casas A, Cohen D, Ugartechea-Salmerón O

42. Agroforestry in the Nijmegen-area; visioning, sharing, designing

Van der Meulen SJ

Tree-Crop-Animal competition and facilitation

43. Less avian influenza risk birds in poultry free range areas covered with trees

Bestman M, Wagenaar J, de Jong W, Weerts T, Luske B

44. Polycultures in agroforestry

Groeneweg D, Vishedijk F, Appelman J, van Buiten G, San Giorgi X, Hautier Y

45. Improve the efficiency of afforestation by the use of alley cropping system

Kovács K, Vityi A

46. Grassland management effects on above-ground matter fluxes in silvopastoral agroforestry systems

Malec S, Graß R, Wachendorf M

47. Does tree density or fertilisation in silvopastoral systems affect tree or pasture production?
Mosquera-Losada MR, Arias-Martínez D, Rigueiro-Rodríguez A, Ferreiro-Domínguez N
48. Temperate agroforestry: yield of five key arable crops near tree rows of *Populus x canadensis*
Pardon P, Reubens B, Mertens J, Verheyen K, De Frenne P, Van Waes C, Reheul D
49. Mediterranean silvoarable systems for feed and fuel: the Agroforces project (agroforestry for carbon sequestration and ecosystem services)
Pecchioni G, Mantino A, Bosco S, Volpi I, Giannini V, Dragoni F, Tozzini C, Coli A, Mele M, Ragolini G
50. Interactions between trees, crops and animals: experiences in a novel bioenergy-livestock system in the UK
Smith J, Deremetz V, Gerrard C, Costanzo A
51. Comparing long-term crop yields of a short rotation alley cropping agroforestry system and of a standard agricultural field in Northern Germany
Swieter A, Langhof M, Lamerre J, Greef JM
52. Simulation of annual leaf carbon fluxes and analysis of stands structure of poplars and black locus in an alley-cropping system, Brandenburg, Germany
Veste M, Malaga Linares RA, Seserman DM, Freese D, Schmitt D, Wachendorf M, Küppers M

Agroforestry and multiple products value chain

53. Opportunities for agroforestry in Finland
den Herder M, Vanhanen H, Karvinen P, Matila A, Mattila I, Nuutinen S, Ryhänen S, Siikavirta K, Westersträhle M, Verdonck P, Muñoz Alonso A
54. A qualitative study to develop an “agroforestry” brand: the case of the Spanish dehesas
Escribano M, Gaspar P, Maestre LM, Elghannam A, Mesías FJ
55. Hybrid aspen and perennial grass agroforestry system interactions
Lazdina D, Rancane S, Makovskis K, Sarkanabols T, Dumins K
56. The biomass potential on existing linear woody-features in the agricultural landscape
Tsonkova P, Böhm C, Hübner R

Education and tools to investigate agroforestry

57. How to make agroforestry systems pay off? Using its values to create economic development pathways
Borremans L, Reubens B, Wauters E

58. Introducing modern agroforestry to students as the next generation of decision makers in ecosystem management

Lamersdorf N, Corre M, Gernandt P, Isselstein J

59. Modelling agroforestry systems with web-EcoYield-SAFE

Palma JHN, Tomás A