

20. Münchner Holzkolloquium (MHK)

Wood adhesion: Fundamental scientific concepts

July 28 and 29 2021, Holzforschung München, Winzererstr. 45, 80797 München

Workshop with focus on recent advances and concepts in wood adhesion science

Hybrid format with participation in presence at HFM (P) and from remote (R) via zoom videolink

Wednesday 28.07.2021

12.30 – 13:00 Reception, Welcome snack

13:00 – 13:15. Prof. Dr. Klaus Richter: Opening, Workshop aims

13.15 – 15.15

Fundamental wood focus

Dr. Joseph Jakes USDA Forest Products Lab Madison

Dr. Nayomi Plaza USDA Forest Products Lab Madison

Wood Adhesive Bondlines: A Material Science Perspective (R)

Prof. Dr. P. Niemz ETH Zürich

Hardwood bonding (R)

Refreshments

15:45 – 17.45

Wood: Adhesion and Surface modification

Prof. Dr. Klaus Richter TU München

Adhesion of modified wood (P)

MSc. Th. Böger TU München

Mechanisms of primers to improve wood bonding (P)

MSc. Christoph Winkler, Eberswalde University for Sustainable Development

Geometrically defined, structured joining surfaces of wood - opportunities for bonding (P)

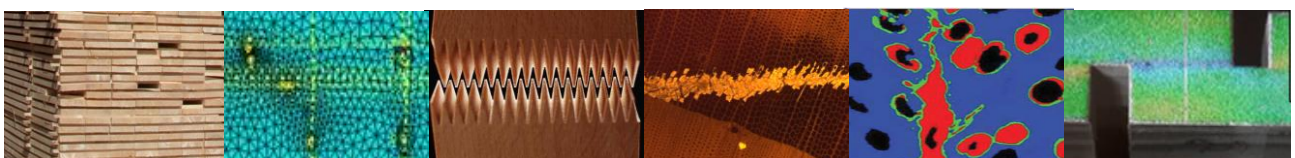
Out of the box

Prof. Dr. C. Zollfrank TU München

Archaeo-inspired and historical adhesives (P)

18.00 General discussion sessions 1 and 2

19.30 Evening reception, workshop dinner



Thursday 29.07.2021

9.00 – 11.00

Fundamental adhesive - adhesion focus

Prof. Dr. M. Dunky, Kronospan SE

Wood Adhesives Based on Natural Resources: Challenges (P)

Prof. Dr. J. Konnerth, BOKU Wien

Carbohydrate based adhesives & selected challenges for classical adhesives (P)

Dr. Chris Hunt USDA Forest Products Lab Madison

Maximizing protein strength before crosslinker addition (P)

Prof. Dr. A. Pizzi, Univ. of Epinal

Challenges on alternative crosslinkers (R)

Refreshments

11.30

Award giving ceremony: Leo Schörghuber Prize 2021

Prof. Dr. K. Richter and TUM Emeritus of Excellence Prof. Dr. G. Wegener (P)

12:30 – 13.30 Lunch

13.30 – 15.30

Fundamental adhesive - adhesion focus

Dr. A. Sanchez-Ferrer, TU München

Aliphatic Polyisocyanates for Polyurea Adhesives Development (P)

Prof. Dr. S. Peresin, Auburn University

Interfacial behavior of urea formaldehyde resins and cellulose nanofibrils and their effect on wood composites (R)

Prof. Dr. M. Nejad, Michigan State University

Lignin as a Raw Material for Wood Adhesives: Challenges and Opportunities (R)

Dr. R. Lehnen, Thuenen-Institute for Wood Research Hamburg

Cyclic organic carbonates as crosslinkers for biobased adhesives (R)

Refreshments

15.30 – 16.30 General discussion sessions 3 and 4

Conclusions and closure of Workshop

