

XXVII INTERNATIONAL CONFERENCE
Forest Biobased Materials - TECNICELPA 2025

Quinta-feira/Thursday - 23 Outubro/October, 2025



I Sala INFANTE, Piso -1 / Room **INFANTE**, Floor -1

09h00-10h00 - **Sessão Oral 3 / Oral Session 3**
Transformação digital / Digital transformation
Moderador / Chairman: Carlos Brás

09h00-09h20 - **VALIDATION OF CCDC USE WITH SENTINEL-2 TIME SERIES FOR DEFORESTATION DETECTION IN PORTUGAL**
O-07 - *Filipe Louro* - The Navigator Company (Portugal)

09h20-09h40 - **AI AUTONOMOUS CONTROL OF GRAMMAGE IN FINE PAPER: MOVING THE PAPER INDUSTRY 4.0**
O-08 - *Juha Rintala* - Solenis (USA)

09h40-10h00 - **VIBRATION AS A TOOL TO UNDERSTAND THE INTERACTION AT THE CREPING BLADE**
O-09 - *Grant Downham* - BTG (Switzerland)

DG Sala D. GUALDIM, Piso -1 / Room **D. GUALDIM**, Floor -1

09h00-10h00 - **Sessão Oral 4 / Oral Session 4**
Sustentabilidade / Sustainability
Moderador / Chairman: Luis Medeiros Machado

09h00-09h20 - **SUSTAINABLE APPROACH TO PRODUCE LIGHT-COLORED ROSIN AND ROSIN ESTERS USING BIOBASED ANTIOXIDANTS**
O-10 - *Nalin Seixas* - Universidade de Aveiro (Portugal)

09h20-09h40 - **ADDITIVE MANUFACTURING OF FULLY RECYCLABLE WOOD PARTICLE INDOOR WALLS: HARNESSING THE PHYSICAL BONDING CAPABILITIES OF WATER-COMPATIBLE LIGNIN AND POLYSACCHARIDE DERIVATIVES**
O-11 - *Falk Liebner* - BOKU University Vienna (Austria)

09h40-10h00 - **RECOVERY OF BIOSLUDGE IN PRACTISE - THE NAVIGATOR COMPANY AVEIRO PROJECT**
O-19 - *Andreia S. C. Ferreira* - RAIZ (Portugal)

I Sala INFANTE, Piso -1 / Room **INFANTE**, Floor -1

10h00-10h40 - **Sessão Plenária B / Plenary Session B**
Moderador / Chairman: Carlos Pascoal Neto
GARBAGE TO GOLD - BIOREFINERIES BASED ON P&P MILL RESIDUES
Celso Foelkel | Prof Universitário

C Sala CONVENTO, Piso -1 / Room **CONVENTO**, Floor -1

10h40-11h10 - **Café / Coffee-break | e-pósteres / e-posters; Expocelpa /Exhibition**

I Sala INFANTE, Piso -1 / Room **INFANTE**, Floor -1

11h10-11h50 - **Sessão Oral 5 / Oral Session 5**
Produção de Pasta / Pulp Production
Moderador / Chairman: Sofia Rebola

11h10-11h30 - **USING MODELLING TO UNDERSTAND AND IMPROVE INDUSTRIAL OXYGEN DELIGNIFICATION PROCESSES**
O-13 - *Jari Kayhko* - South-Eastern Finland University of Applied Sciences (Finland)

11h30-11h50 - **FIBRE LIBERATION FIRST PULPING CONCEPT**
O-14 - *Angeliki Tzanakaki* - VTT Technical Research Centre of Finland Ltd (Finland)

DG Sala D. GUALDIM, Piso -1 / Room **D. GUALDIM**, Floor -1

11h10-12h10 - **Sessão Oral 6 / Oral Session 6**
Produção de papel / Papermaking
Moderador / Chairman: Paulo Ferreira

11h10-11h30 - **FENNOBOND 777E: THE CONVINIENT 'PUMP & GO' SOLUTION FOR SUPERIOR DRY STRENGTH**
O-16 - *Christian Biermann* - Kemira Chemicals Germany GmbH (Germany)

11h30-11h50 - **MÜNZING NOVEL READY-TO-USE BARRIER COATINGS FOR PAPER AND CARDBOARD-BASED PACKAGING FOR FOOD**
O-17 - *Oriol de Luis* - MÜNZING CHEMIE GMBH (Spain)

11h50-12h10 - **APMP NONWOOD FIBERS AS ALTERNATIVES IN TISSUE PAPER FURNISHES**
O-18 - *Ronalds Gonzalez* - North Carolina State University (USA)

I Sala INFANTE, Piso -1 / Room **INFANTE**, Floor -1

11h50-13h10 - **Sessão Oral 7 / Oral Session 7**
Sustentabilidade / Sustainability
Moderador / Chairman: João Martins

11h50-12h10 - **DEVELOPMENT OF NEW BIOBASED STIMULANTS TO IMPROVE THE PRODUCTION OF PINE RESIN FOR THE VALORIZATION OF THE PINE SECTOR**
O-20 - *Inês S. L. Farias* - Universidade de Aveiro (Portugal)

12h10-12h30 - **PRODUCTION OF NONWOVENS FROM EUCALYPTUS FIBRES AND COTTON FIBERS FROM TEXTILE WASTE**
O-21 - *Raquel Bértolo* - RAIZ (Portugal)

12h30-12h50 - **WHAT IF WE COULD TRANSFORM INDUSTRIAL EFFLUENT INTO FRESH WATER?**
O-32 - *Filipa Moura e Joana Baldaia* - The Navigator Company (Portugal)

12h50-13h10 - **REVOLUTIONIZING INDUSTRIAL COOLING: VEOLIA'S COOLING HORIZON 2030 PROGRAM DRIVES SUSTAINABLE WATER MANAGEMENT AND ECOLOGICAL TRANSFORMATION**
O-40 - *Liliana Correia* - Veolia Water Tech (Portugal)

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12h10-13h10 - **Sessão Oral 8 / Oral Session 8**
Bioprodutos e biorrefinaria / Bioproducts and biorefinery
Moderador / Chairman: Gabriel Sousa

12h10-12h30 - **DECIPHERING BIOREFINERY VALORIZATION ROUTES FOR SPENT MUSHROOM SUBSTRATES: ENZYMATIC SACCCHARIFICATION AND LIGNIN RECOVERY**
O-22 - *Luis Alejandro Romero-Soto* - University of Inland Norway (Norway)

12h30-12h50 - **UNLOCKING XYLANS VALUE THROUGH THE DEVELOPMENT OF FULLY BIOBASED MATERIALS FOR DIVERSE APPLICATIONS**
O-23 - *José M. Silva* - Universidade de Aveiro (Portugal)

12h50-13h10 - **CARBON CAPTURE AND GREEN METHANOL PRODUCTION POTENTIAL IN THE PULP AND WOOD PANEL INDUSTRIES**
O-24 - *Raimon Marin* - KBR (USA)

13h10-14h20 - **Hotel Restaurante Almoço / Lunch**

I Sala INFANTE, Piso -1 / Room **INFANTE**, Floor -1

14h20-15h00 - **Sessão Oral 9 / Oral Session 9**
Bioprodutos e biorrefinaria / Bioproducts and biorefinery
Moderador / Chairman: Alejandro Rodriguez

14h20-14h40 - **LIGNIN-MODIFIED LYOCCELL NONWOVENS: A PATH TOWARDS SUSTAINABLE TEXTILES WITH HYDROPHOBIC PROPERTIES**
O-25 - *Fábio Bernardo* - Universidade de Aveiro (Portugal)

14h40-15h00 - **CARBOXYMETHYLATION OF EUCALYPTUS KRAFT LIGNIN: STRUCTURAL FEATURES AND POTENTIAL APPLICATIONS**
O-26 - *Micaela Santos* - Universidade de Aveiro (Portugal)

DG Sala D. GUALDIM, Piso -1 / Room **D. GUALDIM**, Floor -1

14h20-15h00 - **Sessão Oral 10 / Oral Session 10**
Produção de Pasta / Pulp Production
Moderador / Chairman: José Nordeste

14h20-14h40 - **ON THE CHEMISTRY OF TALC-FREE PITCH CONTROL IN KRAFT PULPING**
O-15 - *Hannu Hämäläinen* - BIM Kemi (Finland)

14h40-15h00 - **CORRELATION BETWEEN GREEN LIQUOR TTA AND DENSITY AND ITS INFLUENCE ON DISSOLVING TANK CONTROL**
O-27 - *Thanh Trung* - FITNIR (Canada)

I Sala INFANTE, Piso -1 / Room **INFANTE**, Floor -1

15h00-16h00 - **Sessão Oral 11 / Oral Session 11**
Floresta / Forest
Moderador / Chairman: Luis Leal

15h00-15h20 - **FROM LAB TO FIELD: BIOLOGICAL CONTROL PROGRAMS AGAINST EUCALYPTUS PESTS**
O-29 - *Catarina I. A. Gonçalves* - RAIZ (Portugal)

15h20-15h40 - **HYDROPONICS AS AN INNOVATIVE METHODOLOGY FOR EUCALYPTUS CLONAL PROPAGATION**
O-30 - *Pedro M. V. A. Graça* - RAIZ (Portugal)

15h40-16h00 - **ASSESSING POST-FIRE LANDSCAPE RECOVERY AFTER THE 2017 RURAL FIRES USING SATELLITE REMOTE SENSING**
O-31 - *Luís Acevedo-Muñoz* - RAIZ (Portugal)

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15h00-16h00 - **Sessão Oral 12 / Oral Session 12**
Sustentabilidade / Sustainability
Moderador / Chairman: Manuel Delgado

15h00-15h20 - **COMPUTER VISION ANALYSIS OF BIOSLUDGE CHARACTERISTICS DURING PROCESS SHUTDOWNS IN PULP AND PAPER INDUSTRY ACTIVATED SLUDGE PLANTS**
O-28 - *Heikki Hannukainen* - Toihan (Finland)

15h20-15h40 - **REUSE OF PROCESS STREAMS IN THE FIBRELINE – USE OF CONDENSATES AND INTEGRATION OF PAPER/PULP CIRCUITS**
O-33 - *Isabel S Pinto* - RAIZ (Portugal)

15h40-16h00 - **OPERATING AN ENERGY EFFICIENT AND SUSTAINABLE PULP MILL**
O-34 - *Kraig R. Kent* - Nalco Water an Ecolab Company (USA)

C Sala CONVENTO, Piso -1 / Room **CONVENTO**, Floor -1

16h00-16h30 - **Café / Coffee-break | e-pósteres / e-posters; Expocelpa /Exhibition**

I Sala INFANTE, Piso -1 / Room **INFANTE**, Floor -1

16h30-17h10 - **Sessão Oral 13 / Oral Session 13**
Produção de papel / Papermaking
Moderador / Chairman: Carlos Vieira

16h30-16h50 - **TOUGHER, GREENER, BETTER: UPGRADING PAPER WITH BIODEGRADABLE POLYMERS**
O-35 - *Nuno R. Silva* - Centre of Biological Engineering of University of Minho (Portugal)

16h50-17h10 - **CHANGING CONDITIONS CALL FOR A FLEXIBLE VACUUM SYSTEM**
O-36 - *Lari Lampila* - Runttech Systems (Finland)

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16h30-17h10 - **Sessão Oral 14 / Oral Session 14**
Bioprodutos e biorrefinaria / Bioproducts and biorefinery
Moderador / Chairman: Joana Curto

16h30-16h50 - **DEVELOPMENT OF BIOBASED THERMOPLASTIC COMPOSITES REINFORCED WITH CELLULOSE AND FUNCTIONAL ADDITIVES FOR SUSTAINABLE FOOD PACKAGING**
O-37 - *Ana C. Q. Silva* - Universidade de Aveiro (Portugal)

16h50-17h10 - **SPINNING A MORE SUSTAINABLE FUTURE – THE DEVELOPMENT OF A 100 % PORTUGUESE MANMADE CELLULOSIC FIBRES**
O-38 - *Thalita P. Damaceno* - Centre for Nanotechnology and Advanced Materials (Portugal)

I Sala INFANTE, Piso -1 / Room **INFANTE**, Floor -1

17h10-17h30 - **Sessão Plenária C / Plenary Session C**
Moderador / Chairman: Júlio Costa
BRASIL: IMPORTANTE PRODUTOR DE CELULOSE E PAPEL
Darcio Berni | ABTCP

17h30-18h00 - **Sessão Pitch Pósteres /Pitch Poster Session**
Moderador / Chairman: Paulo Ferreira
6 melhores pósteres /6 best posters

QUINTA DO FALCÃO / Tomar

19h00-23h00 - **Jantar de Gala / Gala Dinner**

