

XXVII INTERNATIONAL CONFERENCE
Forest Biobased Materials - TECNICELPA 2025

Quarta-feira/Wednesday - 22 Outubro/October, 2025



Secretariado, Hall -1 / *Secretariat, Hall -1*

14h00 **Registo de participantes / Registration**

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

15h00-16h00 - **ABERTURA DA EXPOCELPA / EXHIBITION OPENING**

Café / Coffee-break | e-pósteres /e-posters; Expocelpa /Exhibition

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

16h00-16h20 - **Sessão Solene de Abertura / Opening Session**

Presidente da Tecniceipa - Vítor Lucas
Rep. Comissão Científica - Paulo Ferreira
Presidente da Câmara Municipal de Tomar - Hugo Cristovão
Homenagem a Carlos Valente, por Celso Foelkel

16h20-17h00 - **Sessão Plenária A / Plenary Session A**

Moderador / Chairman: A. Dolores Ferreira
THE OUTLOOK FOR MARKET PULP
Oliver Lansdell | Hawkins Wright

17h00-18h00 - **Sessão Oral 1 / Oral Session 1**

Bioprodutos e biorrefinaria / Bioproducts and biorefinery
Moderador / Chairman: António Prates

17h00-17h20 - **EUCALYPTUS LEAVES EXTRACTS RICH IN TRITERPENIC ACIDS**

O-01 - *Pedro C. Branco* - CoLAB BIOREF (Portugal)

17h20-17h40 - **FROM WASTE TO RESOURCE: HARNESSING PINECONE-DERIVED LIGNIN FOR SUSTAINABLE CHROMIUM VI ADSORPTION**

O-02 - *Ricardo A. Costa* - Instituto Superior de Agronomia (Portugal)

17h40-18h00 - **BIOREFINING NORWAY SPALDER-BASED BIORESOURCES WITH THE GREEN SOLVENT γ -VALEROLACTONE**

O-03 - *Carlos Martín Medina* - Umeå University (Norway)

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

17h00-18h00 - **Sessão Oral 2 / Oral Session 2**

Produção de Pasta / Pulp Production
Moderador / Chairman: José Ricardo Rodrigues

17h00-17h20 - **EXPERIENCES AND RESULTS FROM TDS MEASUREMENTS IN BROWN STOCK WASHING AT DIFFERENT PULP MILLS**

O-04 - *Riku Kopra* - South-Eastern Finland University of Applied Scien (Finland)

17h20-17h40 - **IMPLEMENTATION OF ONLINE CHIP PROPERTIES ANALYZER AND DIGESTER DRY CHIP FEEDRATE CONTROL**

O-05 - *Thanh Trung* - FITNIR (Canada)

17h40-18h00 - **CO-ASSISTED CHEMICAL PULPING: A PIONEERING APPROACH FOR HIGH YIELD LIGNIN-RICH PULPS**

O-06 - *Kiran Reddy Baddigam*
VTI Technical Research Centre of Finland Ltd (Finland)

VILA PADEL / Fátima

19h00-21h00 - **Torneio de Padel / Padel tournament**



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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 Lieber* - 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 Universidade

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 SACCHARIFICATION 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 Almoco / 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)

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

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* - Runtech Systems (Finland)

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

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 NANMADE CELLULOSIC FIBRES**

O-38 - *Thalita P. Damasceno* - 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**



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Sexta-feira/Friday - 24 Outubro/October, 2025

RENOVA / Torres Novas

08h30-13h00 - **Visita técnica à RENOVA / Technical visit to RENOVA tissue mill**

CIDADE DE TOMAR / Tomar

09h00-13h00 - **Visita cultural a TOMAR / Cultural visit to TOMAR**

13h00-14h20 - **Hotel Restaurante Almoco / Lunch**

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

14h20-15h20 - **Sessão Oral 15 / Oral Session 15**

Sustentabilidade / Sustainability
Moderador / Chairman: Gonçalo A. Simões

14h20-14h40 - **DEVELOPMENT AND PILOT-SCALE EVALUATION OF PBAT-ESTERIFIED LIGNIN COATINGS FOR SUSTAINABLE FOOD PACKAGING**

O-39 - *Fátima Poças* - Universidade Católica Portuguesa (Portugal)

14h40-15h00 - **CIRCULAR ECONOMY IN AGROFORESTRY: VALORIZATION OF RESIDUES FROM PULP AND PAPER INDUSTRY**

O-12 - *Ana C. Q. Quintela* - RAIZ (Portugal)

15h00-15h20 - **VALMET RESOURCE EFFICIENCY STUDY**

O-41 - *Paavo Hirvonen* - Valmet Technologies Inc (Finland)

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

14h20-15h20 - **Sessão Oral 16 / Oral Session 16**

Transformação digital / Digital transformation
Moderador / Chairman: Pedro Matos Silva

14h20-14h40 - **THE USE OF INFORMATION SYSTEMS IN THE MANAGEMENT OF GENERAL SHUTDOWNS IN THE PULP INDUSTRY**

O-42 - *Marcio Teixeira Oliveira* - Federal Institute of Education, Science and Technology (Brasil)

14h40-15h00 - **AUTONOMOUS PULP MILL OPERATIONS: DIGITALIZATION AND HUMAN-CENTRIC CHANGE AS DRIVERS OF INDUSTRIAL EXCELLENCE**

O-43 - *André Demner* - ANDRITZ (Portugal)

15h00-15h20 - **AI OPTIMIZATION BASED MATERIAL SAVINGS BRING SUSTAINABILITY AND PROFITABILITY FOR PULP INDUSTRY**

O-44 - *Hannu Hämäläinen* - Teknosaavo Oy (Finland)

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

15h20-16h00 - **Sessão Plenária D / Plenary Session D**

Moderador / Chairman: Vítor Lucas
SUCCESSES, OPPORTUNITIES AND CHALLENGES: EUROPEAN BIOECONOMY MOVING TO THE NEXT LEVEL
Jori Ringman | CEPI

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**

16h30-18h00 - **Fórum com CEO's / CEO's Forum**

Moderador / Chairman: Teresa Presas
The Navigator Company - António Redondo
Altri group - José Pina
Renova - Paulo Pereira da Silva

18h00-18h30