

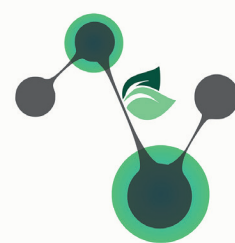


LABORATORY OF

BioNano
Technology
USP

AUGUST
06th
Wednesday

Day
1



5th BRAZILIAN
NANOCELLULOSE
SUMMIT **2025**

August 6 - 8 | Lorena, SP, BRAZIL

NANOCELLULOSE CHARACTERIZATION WORKSHOP

08:00 - 08:30 | **REGISTRATION**

08:30 - 08:50 | **OPENING AND INTRODUCTION**

The importance of knowing your starting material
Dr. Valdeir Arantes - EEL/USP

PART 1 - INTRINSIC PROPERTIES

08:50 - 09:50 | **Atomic force microscopy as a tool in nanocellulose research:** theory, methodology, data interpretation and case studies

Me. Otávio Berenguel - LNNano/CNPEM, Brazil

09:50 - 10:10 | **COFFEE BREAK**

10:10 - 11:10 | **(Cryo)TEM imaging of nanocellulose-based materials**

Dra. Laura Escobar - LNNano/CNPEM, Brazil

11:10 - 12:10 | **Fundamentals of FTIR and NMR in nanocellulose**

Dra. Talita Martins Lacerda - EEL/USP, Brazil

12:10 - 14:00 | **LUNCH BREAK**

PART 2 - PERFORMANCE AND APPLICATIONS

14:00 - 15:00 | **Mechanical characterization of cellulose-reinforced polymer nanocomposites:**

structure-property relationships

Dra. Kelly C. C. Benini - FEG/UNESP, Brazil

15:00 - 15:20 | **COFFEE BREAK**

15:20 - 16:20 | **Rheological analysis of nanocellulose suspensions**

Dra. Dana Grecov - University of British Columbia (UBC), Canada

16:20 - 16:30 | **CLOSING WORDS**

OPENING: V BRAZILIAN NANOCELLULOSE SUMMIT

16:00 - 17:00 | **REGISTRATION**

17:00 - 17:30 | **OPENING CEREMONY**

17:30 - 18:00 | **Technical Standardization Initiatives for cellulose nanomaterials in Brazil**

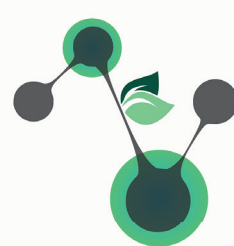
Umberto Caldeira Cinque - Technical Head, Brazilian Pulp and Paper Technical Association - ABTCP

Valdeir Arantes - Associate Professor, Lorena School of Engineering, University of São Paulo

18:00 - 20:00 | **WELCOME RECEPTION**

AUGUST
07th
Thursday

Day
2



5th BRAZILIAN
NANOCELLULOSE
SUMMIT **2025**

August 6 - 8 | Lorena, SP, BRAZIL

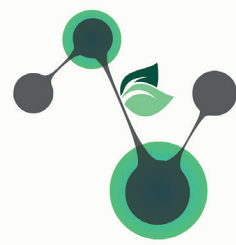
- 08:30 - 09:00 | **REGISTRATION**
- 09:00 - 10:00 | **PLENARY TALK**
Sustainable Packaging Design Strategies with Cellulose Nanomaterials
Dr. Nathalie Lavoine - Professor, College of Natural Resources - NC State University, USA
Chair: Camila Rezende
- 10:00 - 10:20 | **COFFEE BREAK**
- 10:20 - 11:00 | **KEYNOTE TALK**
Controlling nanocellulose (dis)assembly via the supramolecular toolbox
Dr. Caio G. Otoni - Professor, State University of Campinas - UNICAMP, Brazil
Chair: Kelly C. C. Benini
- 11:00 - 12:10 | **PITCH PRESENTATIONS**
Group 1
- 12:10 - 14:00 | **LUNCH BREAK**
- 14:00 - 14:10 | **INSTITUTIONAL BRIEFING**
Hydrogels and electrospun polymeric nanofibers containing nanowhiskers and their potential technological applications
Dr. Edvani Curti Muniz - National Institute of Science and Technology (INCT) Polysaccharides
Chair: Valdeir Arantes
- 14:10 - 14:50 | **KEYNOTE TALK**
Rheological Characterization of Cellulose Nanocrystals in Hyaluronic Acid Suspensions: Emphasis on Yield Stress Behavior
Dra. Dana Grecov - Professor, University of British Columbia, Canada
Chair: Humberto de Jesus Eufrade Jr
- 14:50 - 15:30 | **KEYNOTE TALK**
From Nature to Materials: Cellulose Nanofibrils and Nanocrystals Applied to the Production of Films, Gels, and Lightweight Materials
Dra. Camila Rezende - Professor, State University of Campinas - UNICAMP, Brazil
Chair: Valdeir Arantes
- 15:30 - 16:50 | **PITCH PRESENTATIONS**
Group 2
- 16:50 - 17:00 | **GROUP PICTURE**
- 17:00 - 17:20 | **COFFEE BREAK**
- 17:00 - 18:30 | **POSTER SESSION**
- 19:00 - 21:00 | **HAPPY HOUR**



LABORATORY OF
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AUGUST
08th
Friday

Day
3



5th BRAZILIAN
NANOCELLULOSE
SUMMIT 2025

August 6 - 8 | Lorena, SP, BRAZIL

08:30 - 09:00 | **REGISTRATION**

09:00 - 10:00 | **PLENARY TALK**

A Decade of Application Development in NanoFibrillated Cellulose:

Performance BioFilaments' Journey into Concrete and Mining Applications

Dr. Keith Gourlay - Director of Technology Development - Performance Biofilaments, Canada

Chair: Caio Otoni

10:00 - 10:20 | **COFFEE BREAK**

10:20 - 10:50 | **TECHNICAL TALKS**

Microfibrillated cellulose: A multifunctional sustainable platform

Dr. Willian dos Santos - Research Scientist - Klabin, Brazil

Chair: Hernane Barud

10:50 - 11:20 | **TECHNICAL TALKS**

Applied nanocellulose research and innovation: Perspectives from the SENAI Institute of Technology in Pulp and Paper

- Dr. Braz de Souza Marotti - R&D and Innovation Researcher - Pulp, Paper and Nanocellulose, SENAI, Brazil

- Dr. Mateus Jonsson de Almeida - R&D and Innovation Consultant - Pulp, Paper and Nanocellulose, SENAI, Brazil

Chair: Júlio Cesar da Costa

11:20 - 11:50 | **TECHNICAL TALKS**

Bacterial cellulose from HB Biotech: Bridging biotechnology and industry across health, food, circular fashion and cosmetics

Dra. Marina Fontes - R&D Manager - HB Biotech, Brazil

Chair: Valdeir Arantes

12:20 - 14:30 | **LUNCH BREAK**

14:30 - 16:00 | **ROUND TABLE**

Challenges and Future Perspectives for Nanocellulose

- Braz de Souza Marotti - R&D and Innovation Researcher - SENAI, Brazil

- Caio Otoni - Professor - UNICAMP, Brazil

- Edson Aleixo - Director of Nanotechnology - Tangho, Canada

- Keith Gourlay - Director of Technology Development - Performance Biofilaments, Canada

- Nathalie Lavoine - Professor - NC State University, USA

- Shuma Ueda - Masuko, Japan

- Willian dos Santos - Research Scientist - Klabin, Brazil

Moderator: Dr. Valdeir Arantes - EEL/USP, Brazil

16:00 - 16:30 | **AWARD CEREMONY & CLOSING WORDS**

- Organizing Committee

- Umberto Caldeira Cinque - ABTCP

- Ana L. Gabas Ferreira - EEL/USP



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