Wednesday, 24 September 2025

7:00 AM - 8:00 AM - 2nd Floor Foyer
Light Breakfast and Registration

8:00 AM - 8:15 AM - Giovanni Room, 2nd Floor
Group Photo

8:15 AM - 8:30 AM - Giovanni Room, 2nd Floor
Welcome

8:30 AM - 9:00 AM - Giovanni Room, 2nd Floor
Opening Remarks

9:00 AM - 10:00 AM - Giovanni Room, 2nd Floor
Keynote Presentation

10:00 AM - 10:30 AM - 2nd Floor Foyer
Coffee Break

10:30 AM - 12:00 PM - Giovanni Room, 2nd Floor **Session 1a**	10:30 AM - 12:00 PM - Armoury Suite, 2nd Floor **Session 1b**
10:30 AM - 11:00 AM **Introducing the hydrogen economy to the recovery boiler** Esa Vakkilainen[1]. [1]LUT University.	10:30 AM - 11:00 AM **Towards new insights on black liquor evaporator scaling - Crystal analysis, crystallisation behaviour and extractives** Erik Karlsson[1]. [1]RISE.
11:00 AM - 11:30 AM **CFD modeling of oxy-combustion in Kraft recovery boilers** Markus Engblom[1]. [1]Åbo Akademi University.	11:00 AM - 11:30 AM **Effects of calcium on sodium salt scaling with the presence of resin acids and fatty acids** Manling Huang[1]. [1]University of Toronto.
11:30 AM - 12:00 PM **Roles of potassium in kraft recovery operations** Honghi Tran[1]. [1]University of Toronto.	11:30 AM - 12:00 PM **Will modifying heat transfer surfaces affect the scale formation in falling film evaporators?** Erik Karlsson[1]. [1]RISE Research Institutes of Sweden.

12:00 PM - 1:00 PM - Giovanni Room, 2nd Floor
Lunch

1:00 PM - 2:30 PM - Giovanni Room, 2nd Floor **Session 2a**	1:00 PM - 2:30 PM - Armoury Suite, 2nd Floor **Session 2b**
1:00 PM - 1:30 PM **Black liquor viscosity: why it matters and what impacts it: a 30+ year answer** Jack Porter[1]. [1]Jack Porter Consulting Inc..	1:00 PM - 1:30 PM **Wood extractives to tall oil - managing brownstock washing to soap and tall oil separation** Hannu Hämäläinen[1]. [1]BIM Kemi.
1:30 PM - 2:00 PM **Black liquor spray properties in-furnace conditions for swirl cone nozzles** Ari Kankkunen[1]. [1]Aalto University, Aalto University, School of Engineering.	1:30 PM - 2:00 PM **Scaling and bulk crystal composition in kraft pulp mill black liquor evaporators - comparison between operation and equilibrium** Sina Talebi[1]. [1]University of Toronto.
2:00 PM - 2:30 PM **Image classification of the furnace bed volume in recovery boilers** Torsten Meyer[1]. [1]University of Toronto.	2:00 PM - 2:30 PM **In-situ measurement of highly fouling pulp and paper process flows** Andrew Jones[1]. [1]Integrated Test and Measurement.

2:30 PM - 3:00 PM - 2nd Floor Foyer
Coffee Break

3:00 PM - 4:30 PM - Giovanni Room, 2nd Floor **Session 3a**	3:00 PM - 4:30 PM - Armoury Suite, 2nd Floor **Session 3b**
3:00 PM - 3:30 PM **Recovery boiler cameras bed profile and optimization** Matti Selkälä[1]. [1]Valmet Automation.	3:00 PM - 3:30 PM **Operation of an 8-effect evaporation plant: benefits and challenges** Bruna Dal Bello[1]. [1]CMPC.
3:30 PM - 4:00 PM **Optimizing the reduction degree in recovery boilers** Matti Selkälä[1]. [1]Valmet.	3:30 PM - 4:00 PM **Optimization of energy efficiency and condensate production in evaporation plants - Applied in Modern Softwood Pulp Mill** Fredrik Vedin[1]. [1]Valmet.
4:00 PM - 4:30 PM **Corporate approach to understand and mitigate kraft recovery boiler risk** David Wünsch[1], Peter Kral[2], Esa Vakkilainen[3, 4, 5]. [1]Mondi AG, Vienna UT, Institute of Thermodynamics & Energy Systems, [2]Mondi SCP, [3]Lappeenranta UT, [4]TAPPI, [5]FRBC.	4:00 PM - 4:30 PM **Dynamic modelling of process chemistry in a kraft pulp mill** Nikolai De Martini[1]. [1]University of Toronto.

6:00 PM - 8:00 PM - Giovanni Room, 2nd Floor
Conference Dinner

Thursday, 25 September 2025

7:30 AM - 8:15 AM - 2nd Floor Foyer
Light Breakfast

8:30 AM - 10:00 AM - Giovanni Room, 2nd Floor **Session 4a**	8:30 AM - 10:00 AM - Armoury Suite, 2nd Floor **Session 4b**
8:30 AM - 9:00 AM **Using data science tools to recovery boiler understanding and optimization** Daniel Silva da Costa[1, 2]. [1]CENIBRA, [2]UFOP.	8:30 AM - 9:00 AM **Alternative disposal methods for pulp mill biosludge** Katja Kuparinen[1]. [1]Lappeenranta-Lahti University of Technology LUT.
9:00 AM - 9:30 AM **Recovery boiler combustion diagnostics - using online CFD modelling** Jarmo Mansikkasalo[1]. [1]Valmet Technologies Oy.	9:00 AM - 9:30 AM **CleanFlow(TM) technology for green liquor microfiltration** Shadan Mostafavi[1]. [1]NORAM Engineering.
9:30 AM - 10:00 AM **Towards quantitative prediction of carryover deposition in recovery boiler upper furnace - a CFD Study** Jarmo Mansikkasalo[1]. [1]Valmet Technologies Oy, Finland.	9:30 AM - 10:00 AM **Biomass gasification for green ammonia production in Kraft mills** Adam Rogerson[1]. [1]Natural Resources Canada.

10:00 AM - 10:30 AM - 2nd Floor Foyer
Coffee Break

10:30 AM - 12:00 PM - Giovanni Room, 2nd Floor **Session 5a**	10:30 AM - 12:00 PM - Armoury Suite, 2nd Floor **Session 5b**
10:30 AM - 11:00 AM **Application of vibrational analysis for detecting superheater fouling and sootblower maintenance issues** Andrew Jones[1]. [1]ITM.	10:30 AM - 11:00 AM **Chemically self-sufficient pulp mill** Juho Hiltunen[1]. [1]ANDRITZ Oy.
11:00 AM - 11:30 AM **Laboratory studies on the aging behavior and corrosivity of synthetic kraft recovery boiler deposits** Roland Balint[1]. [1]Åbo Akademi University.	11:00 AM - 11:30 AM **Modern NCG practice** Kirsi Hovikorpi[1]. [1]LUT.
11:30 AM - 12:00 PM **Use of 9-14 bar (130 - 200 psig) steam from turbine extraction for recovery boiler sootblowing: a case study at a southern US bleach mill** Danny Tandra[1]. [1]Clyde Industries Inc.	11:30 AM - 12:00 PM **Controlling sulphidity by recycling sulphur in the NCG** Esa Vakkilainen[1]. [1]LUT.

12:00 PM - 1:00 PM - Giovanni Room, 2nd Floor
Lunch

1:00 PM - 2:30 PM - Giovanni Room, 2nd Floor **Session 6a**	1:00 PM - 2:30 PM - Armoury Suite, 2nd Floor **Session 6b**
1:00 PM - 1:30 PM **Diagnosis of the overheating problem of a secondary superheater of a kraft boiler** Gustavo Almeida[1]. [1]LUT University.	1:00 PM - 1:30 PM **A comprehensive study about recovery boiler noise** Johanna Brink[1]. [1]ANDRITZ Oy.
1:30 PM - 2:00 PM **Mitigating high intermediate superheater steam temperatures** Samit J. Pethe[1]. [1]Jansen Combustion and Boiler Technologies, Inc..	1:30 PM - 2:00 PM **Evaluation of recovery boiler's carbon footprint in the context of European legislation** Tiina Keipi[1]. [1]ANDRITZ Oy.
2:00 PM - 2:30 PM **Update on the use of SHOP to avoid superheater tube overheating during startups** Jeff Wagoner[1]. [1]International Paper.	2:00 PM - 2:30 PM **Negative carbon emissions pulp production: techno-economic analysis of carbon capture from recovery boilers using molten carbonate fuel cells** Letizia Cretarola[1]. [1]Politecnico di Milano.

2:30 PM - 3:00 PM - 2nd Floor Foyer **Coffee Break**

3:00 PM - 4:30 PM - Giovanni Room, 2nd Floor **Session 7a**	3:00 PM - 4:30 PM - Armoury Suite, 2nd Floor **Session 7b**
3:00 PM - 3:30 PM **Ash accumulation in the inlet plenum of recovery boiler electrostatic precipitators - a challenging research topic** Ivan Sretenovic[1], J. Arnold Webb[2]. [1]ProcessBarron - Southern Field Canada Inc., [2]Consultant.	3:00 PM - 3:30 PM **Interaction between jellyroll smelt and water in recovery boiler dissolving tanks** Markus Bussmann[1]. [1]University of Toronto.
3:30 PM - 4:00 PM **CFD modeling of NOx formation in kraft recovery boilers** Rasmus Fagerlund[1]. [1]Åbo Akademi University.	3:30 PM - 4:00 PM **Non-process elements in the lime cycle - new findings regarding NPE distribution and lime mud filterability** Marta Bialik[1]. [1]RISE.
4:00 PM - 4:30 PM **Short column ion exchange for precipitator dust treatment - summarizing experience and improvements in chloride and potassium removal** Emily Freeze[1]. [1]NORAM Engineering and Constructors.	4:00 PM - 4:30 PM **Dynamic modeling and control system analysis for continuous-disc filters in pulp mill operations** José M. Campos-Salazar[1]. [1]jose.campos.s@arauco.com.

Friday, 26 September 2025

7:30 AM - 8:15 AM - 2nd Floor Foyer
Light Breakfast

8:30 AM - 10:00 AM - Giovanni Room, 2nd Floor **Session 8a**	8:30 AM - 10:00 AM - Armoury Suite, 2nd Floor **Session 8b**
8:30 AM - 9:00 AM **Impact of oxy-combustion conditions on alkali release and deposit formation in recovery boilers** Sara Hagman[1]. [1]Åbo Akademi University.	8:30 AM - 9:00 AM **New lime kiln balance** Esa Vakkilainen[1]. [1]LUT University.
9:00 AM - 9:30 AM **Mathematical modeling for deeper insight into single droplet experiments relevant for black liquor oxy-combustion** Aiman Fatima[1]. [1]Åbo Akademi University.	9:00 AM - 9:30 AM **Data-driven modelling to reduce fossil fuel consumption in a lime kiln integrated with biomass gasifier** Mateus Mamoni Rosseto[1, 2]. [1]Bracell, [2]University of São Paulo, Department of Chemical Engineering.
9:30 AM - 10:00 AM **Black liquor char reactivity with CO2 in oxycombustion conditions** Fernando Leo[1], Jose Luis Sanchez[1]. [1]University of Zaragoza.	9:30 AM - 10:00 AM **Experience and respective learnings of eucalyptus bark gasification to replace fossil fuel in lime kiln** Dimas Rodrigues Neto[1]. [1]Valmet.

10:00 AM - 10:30 AM - 2nd Floor Foyer
Coffee Break

10:30 AM - 12:00 PM - Giovanni Room, 2nd Floor
Session 9a

10:30 AM - 11:00 AM **CFD modelling of oxyfuel combustion in a rotary lime kiln** Jarod Ryan[1]. [1]University of Toronto.

11:00 AM - 11:30 AM **Lime kiln decarbonization by electrification** Paavo Tiitta[1]. [1]ANDRITZ Oy.

11:30 AM - 12:00 PM **Thermodynamic and practical aspects of oxyfuel CO2 capture strategies for kraft recovery boilers** Michael Greencorn[1]. [1]KTH - Royal Institute of Technology.

12:00 PM - 1:00 PM - Giovanni Room, 2nd Floor
Lunch

1:00 PM - 2:00 PM - Giovanni Room, 2nd Floor
Session 10a

1:00 PM - 1:30 PM **Feasibility of oxidized white liquor for CO2 capture in the forest industry** Kristian Melin[1]. [1]LUT University.

1:30 PM - 2:00 PM **Technologies for CO2 capture in pulp and paper mills** Kevin Whitty[1]. [1]University of Utah.

2:00 PM - 3:00 PM - Giovanni Room, 2nd Floor
Closing Remarks and Coffee