

Sustainable Process and Optimized Technologies for Efficient Water Usage in the Steel, Dairy & Paper Industry

8:30 *Registration and welcome coffee*

9:00 **Welcome and introduction of the Workshop**

Eric Fourest (SpotView coordinator, Centre Technique du Papier)

Mihai Barcanescu (Programme Manager, A.SPIRE)

9:30 **Innovative water treatment and use of alternative water resources in iron and steel industry**

Martin Hubrich, Matthias Kozariszczuk, (VDEh-Betriebsforschungsinstitut GmbH)

Elena Piedra Fernandez, Beatriz Padilla Vivas (ARCELORMITTAL Innovacion)

10:00 **Efficient water use in steel industry by innovative and sustainable solutions**

(INSPIREWATER Project)

Martin Hubrich, Matthias Kozariszczuk, (VDEh-Betriebsforschungsinstitut GmbH)

Beatriz Padilla Vivas (ARCELORMITTAL Innovacion)

10:30 *Break - – Posters session*

11:00 **Issues and strategies for effluent stream valorization and water conservation in the Dairy industry**

Sioutopoulos Dimitrios, Anastasios Karabelas (Centre for Research and Technology-Hellas)

Konstantinos Georgakidis (MEVGAL)

11:30 **Innovative technologies for valuable substance recovery and water reuse in the Dairy industry**

Sioutopoulos Dimitrios, Anastasios Karabelas (Centre for Research and Technology-Hellas),

Narinder Bains (SERE-Tech), Konstantinos Georgakidis (MEVGAL)

12:00 **Panel discussion**

12:30 *Networking Lunch – Posters session*

14:00 **Effluent reuse for fresh water reduction in the Pulp and Paper Industry**

Stéphanie Prasse, Patrick Huber (Centre Technique du Papier)

14:30 **Onsite generation of biocides for process water and effluent reuse,**

Pauliina Tukiainen, Heikki Pajari and Antti Grönroos (VTT)

15:00 **Strategies and Technologies for valuable substance recovery in the Paper industry**

Christophe Neyret, Eric Fourest (Centre Technique du Papier), Serge Andres (SAICA), Pauline

Thibault, Xavier Lacour, Alain Lascar (KADANT)

15:30 Break – Posters session

16:00 Pitching session: new technologies for process water efficiency

16:00 Chemical Heat Pump application in Steel and Paper Industries
Wouter DUCHEYNE (QPinch)

16:10 Catalyst technology for optimizing water reuse
IMCG Innovation Management Consulting Group (*to be confirmed*)

16:20 SERE-Tech Elevated Pressure Sonication
Narinder Bains (SERE-Tech)

16:30 Valmet Ultrafiltration for Tissue mills
Timo SUTELA (VALMET Technologies)

16:40 Discussion and Conclusions: current needs and innovative approaches in water efficiency in process industry

17:00 End of the Workshop and networking coffee (~17:30 end)

Venue and accommodation

Place of the Workshop is **Niemeyer center**, Avda del Zinc, s/n 33400 Avilès, Spain

The nearest Airport is Asturias Airport: <http://www.aena.es/en/asturias-airport/index.html>

From the airport to Avilès, there are **buses** (<https://www.alsa.com/en/web/bus/home/>), **taxis** (+34 985 502 121) or **car rental** (Avis, Europcar, Rent a Car)

Hotels near the Niemeyer Center.

- Hotel NH Collection: <https://www.nh-hoteles.es/hotel/nh-collection-palacio-de-aviles>
- Hotel Silken Villa de Avilès: <https://www.hoteles-silken.com/es/hotel-villa-de-aviles/>
- Hotel 40 Nudos: <http://www.hotel40nudos.com/>
- Hotel Palacio Valdés: <http://hotelpalaciovaldes.com/>

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