



Valorisation of Agro-Industrial Wastes via the Production of Zeolite-based composite materials and their use in Environmental Remediation and Biofuel production.



WELCOME

VALZEO TEAM

Welcome to VALZEO 2nd Newsletter. We are thrilled to have you as part of our community and to share our sustainable journey with you. Our focus is on developing solutions for removing pollutants from water and for improving bioenergy production using zeolite-based composite materials sourced from revalorizing rice husk ashes. By embracing the principles of a Circular Economy, we believe we can contribute to a more sustainable world. In this issue of the newsletter, we highlight the start of VALZEO's outreach activities. This includes a workshop and science café that was organized in Seville, Spain. We also shed light on VALZEO's participation in international conferences, such as Ecomondo in Italy, as well as MSCA info day. Additionally, we provide a quick summary of the project's progress Meetings Month 6 and Month 12.

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VALZEO Month (6) Meeting

Advancement in sustainable solutions through Agro-industrial waste valorization

On June 30, 2023, the VALZEO project partners gathered virtually to hold their scheduled meeting. With the project duration reaching six months, the objective was to assess the progress made in the various work packages of the working groups and to make necessary preparations for future events organized by the VALZEO project.

In addition, the partners focused on planning upcoming events that will contribute to the project's outreach activities. Workshops, science cafés, and collaboration with potential stakeholders were among the exciting initiatives on the horizon. These events will facilitate knowledge-sharing, community engagement, and foster collaboration within the industry to further drive sustainable practices and technologies in the VALZEO project.



VALZEO 1st Workshop



On December 4, 2023, Pablo de Olavide University hosted the VALZEO project's entitled "Nanoporous Solids for Environmental Applications," brought together a group of experts. The leading expert was the organizers were Rabdel Ruiz and Menta Balleteros Martin from UPO.

The workshop was a significant milestone for VALZEO in terms of VALZEO outreach activities. The workshop focused on zeolites and metal organic frameworks (MOFs) as nanoporous materials for environmental applications, the different contributions addressed a wide variety of topics covering synthesis, advanced characterization modelling and applications in water remediation and anaerobic digestion, the workshop was complemented with several talks about bioeconomy and synergistic approaches involving industry.

Dr. Marcos Munoz from UH since he was performing a secondment at UPO shed light on the cutting-edge research being conducted in the field of removal of methylene blue by a heterogeneous photo-Fenton process using zeolites, which are highly porous materials with immense potential for environmental applications. The speech explored various techniques and methods used for characterizing these advanced materials, with particular emphasis on their structural and chemical properties.

The importance of advanced characterization in understanding the behavior and performance of MOFs was emphasized throughout Dr. Boada's talk. Techniques such as X-ray absorption spectroscopy and neutron scattering which can provide information at molecular scale which reveals the underlying mechanisms behind the functionality and stability of the MOFs.

For visit details, please click the [link](#).

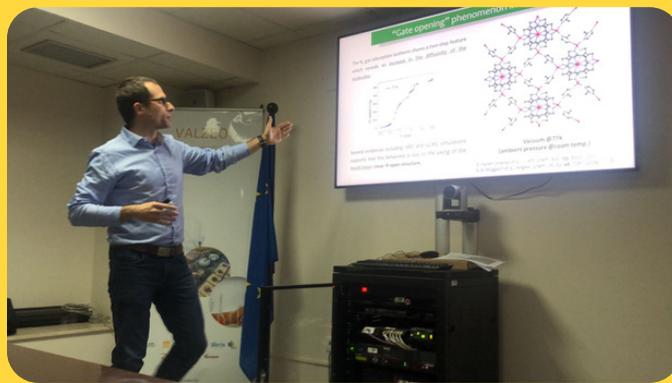
VALZEO Science Cafe **Diving in Water Security**

On December 4th 2023, the VALZEO project hosted Dr. Luara Riesgo, an economist from Universidad Pablo de Olavide, at the VALZEO Science Café. The event's theme was "Water: a Scarce Resource."

Dr. Riesgo shed light on the future of water security, highlighting the challenges and potential solutions that lie ahead. Her talk emphasized the critical importance of conserving and managing water resources in the face of increasing scarcity caused by climate change, population growth, and unsustainable practices.

One of the standout features of Dr. Riesgo's presentation was her emphasis on the need for a multifaceted approach to address water scarcity. She underlined the significance of increasing public awareness and education regarding water conservation. She also highlighted the need for stronger governance and policies to ensure sustainable water management at local, regional, and global levels.

The Science Cafe event was particularly successful in fostering meaningful discussion among the attendees. Participants actively engaged with Dr. Riesgo, asking insightful questions and exchanging ideas. The event provided a platform for open dialogue and knowledge sharing, making it a valuable experience for all those involved.



Dr. Roberto Boada
Project Coordinator
Universidad Autònoma de Barcelona.
4th December 2023, Seville, Spain.



Dr. Marcos Muñoz
University of Havana.
4th December 2023, Seville, Spain.



Dr. Laura Riesgo
Universidad Pablo de Olavide.



VALZEO Science Cafe discussions
4th December 2023, Seville, Spain.

VALZEO Visit (1)

Exploring the Andalusian Center for Developmental Biology

December 5th 2023, the VALZEO team visited the Andalusian Center for Developmental Biology (**CABD**) CSIC-UPO-JA in Seville, Spain. This visit allowed us to gain firsthand insights into the cutting-edge research and technological advancements being made in developmental biology. CABD proved to be a pioneering institution, offering an immersive experience that left an indelible impression on our team.

VALZEO Visit (2)

Exploring Olive Oil And Sustainable Technologies.

December 5th, 2023 - The VALZEO team embarked on an exciting study visit to the prestigious **Instituto de la Grasa** in Sevilla, Spain. This visit proved to be an invaluable experience for VALZEO Project.

Sustainable technologies and environmental remediation one of the key aspects that , it Would it be useful to remark that they have a pilot plant for olive oil production in order to improve the extraction procedures and check the quality of the oil produced through cutting-edge analytical instruments.

VALZEO Project Partners' 12-Month Progress Meeting

The partners of the VALZEO project convened on December 5th Seville , Spain , for 12-month meeting to assess the ongoing implementation and to discuss and plan future activities.

During the meeting, participants engaged in lively discussions, sharing insights and experiences that will help steer the project towards its ultimate success. Key topics on the agenda included the progress of work packages in the VALZEO project, along with the key indicators. Additionally, the meeting addressed future secondment plans for VALZEO.



VALZEO Team at Andalusian Center
5th December 2023, Seville, Spain.



VALZEO Team at Institute de la Grasa
5th December 2023, Seville, Spain.



Project partners during Project Meeting
5th December 2023, Seville, Spain.

Dr. **Roberto Boada** at the Autonomous University of Barcelona expressed optimism about the project's trajectory, stating, " We emphasised the significance of our collective efforts during this pivotal 12-month meeting. We have seen tangible progress in our mission to valorise agro-industrial wastes via the production of zeolite-based composite materials and their use in environmental remediation and biofuel production, underscoring our commitment to sustainability and environmental innovation. Reflecting on our accomplishments and challenges today, we are inspired to propel VALZEO into its second year with renewed vigour. Together, we are dedicated to driving positive change in research and innovation mobility and leaving a lasting legacy for future generations".



Project partners during Project Meeting
5th December 2023 ,Seville,Spain.

VALZEO participated in Ecomondo 2023.

VALZEO proudly participated in the international circular economy exhibition Ecomondo, held in Italy from November 7 to 11, 2023.

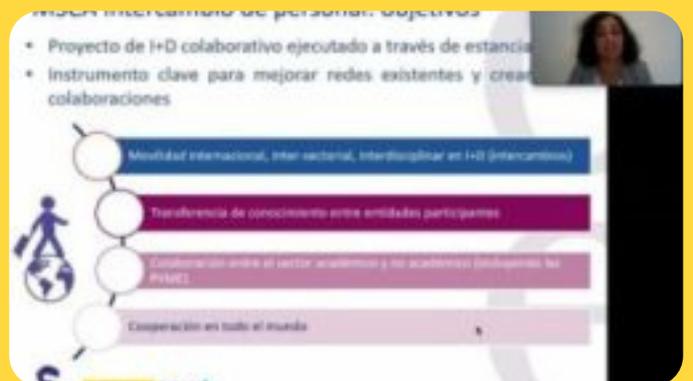


VALZEO Expert Prof. Francesco Fatone ,
from UNIVPM during Ecomondo 2023
8th November 2023 ,Italy.

VALZEO's participation in **Ecomondo** was a step forward in engaging with diverse stakeholders interested in bioenergy production from around the world. It also provided an opportunity to present the results of the VALZEO project. For visit details, please click the [link](#).

VALZEO participated in MSCA Infoday 2023

On 18th October 2023 marked a significant milestone for VALZEO project "As a participant in the MSCA Staff Exchanges Call (MSCA SE) 2023 event" organized by **EURAXESS LAC** and its partners, VALZEO had the opportunity to showcase its groundbreaking research and innovation activities.



MSCA Virtually Meeting ,18th October 2023.

As the VALZEO Project participated in the MSCA Staff Exchanges Call 2023 event, it gained valuable insights, exchanged ideas, and established new connections with like-minded researchers, institutions, and organizations. This event provided a platform to showcase the project's groundbreaking research outcomes and demonstrate how agro-industrial waste valorization can contribute to sustainable development.

For visit details, please click the [Link](#).

Thank you ,see you in next Newsletter.



<https://www.valzeo.eu/>

