

## Welcome to the second XERIC newsletter.

XERIC has taken up a stimulating challenge: extending the range of electric vehicles by developing a novel climate control system. We are developing a hybrid-system based upon an innovative three-fluids-combined membrane contactor (3F-CMC) that simultaneously works with air, desiccant solution, and refrigerant.

The first year was very busy:

amongst other things, a **novel PVDF membrane** was prepared, a **special plasma treatment** is being developed to further increase its hydrophobicity, a **desiccant** was selected, the **design of the first prototype of the membrane contactor** was completed, its mechanical stability was modelled, and numerical simulations were carried out. It all resulted in the **preparation of the preliminary 3F-CMC prototype!**

Especially rewarding for me, as coordinator, was to see the **constant growth of a truly transdisciplinary and collaborative attitude** of all people working within XERIC. Professors, scientists, managers, younger post-doctors and PhD students work synergistically to reach a common objective that could revolutionise the climate control in vehicles and especially in electric ones.

Thanks to our newsletters, you'll **get to know the expertise of the teams** involved in XERIC. For this edition, we're travelling to VITO's plasma group and UDE's 'Technical Chemistry II' Chair. We are also giving you the opportunity to **discover the researchers** involved in XERIC on an individual basis: in this edition, we're getting a glimpse into Stefano Lazzari, Sabine Paulussen and Marta Bojarska's daily life as researchers.

In XERIC, we're also looking for synergy by clustering with other EC-funded projects. The JOSPEL and OPTEMUS projects give us a hand with the organization of our **first joint public event**, so save the date: our 1-day public event devoted to *Improving Energy Efficiency in Electric Vehicles* will take place on **November 24, 2016** in **Bologna, Italy**. You'll get a unique insight into the latest research and development on energy management in electric vehicles, **you'll grow your network** and establish new contacts for collaborations. We hope to see many of you there.

We welcome any comment or suggestion from all people interested in our project and we invite you to read more about it on our website: [www.xeric.eu](http://www.xeric.eu).

**Nino Gaeta**  
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XERIC's Coordinator

