

## Materials for Decarbonized Circular Economy

### Palais des Congrès de Strasbourg

**Morning session: room Adenauer - First floor**

**Afternoon session: room Madrid 1 - Ground floor**

The goal of this EpE / E-MRS workshop is to gather high level industrialists and scientists in order to identify topics and issues for which more pro-active synergy between these two sectors could significantly enhance the environmental burden of our consumerist society.

“Entreprise pour l'Environnement” (EpE), founded in 1992, is an association of around fifty French and international large companies from all sectors of the economy, who want to make environmental considerations more a part of both their long-term planning and their day-to-day management.

### **Session 1: Production, storage and use of CO<sub>2</sub> and Hydrogen**

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|------|-----------------|---|
| S1.0 | 08.30-<br>08.45 | Introduction by C. Tutenuit (EpE), G. Dennler (E-MRS), and E. Fogarassy (E-MRS)   |
| S1.1 | 08.45-<br>09.10 | Stéphane Haag (Air Liquide)<br>Title: “ <b>Power-to-methanol route</b> ”  |
| S1.2 | 09.10-<br>09.35 | Prof. Marc Robert (University Paris Diderot, LEM, France)<br>Title: “ <b>Running the clock: CO<sub>2</sub> catalysis at the age of Anthropocene</b> ” |
| S1.3 | 09.35-<br>10.00 | EDF   |
| S1.4 | 10.00–          | Prof. Wolfram Jaegermann (Technical University, Darmstadt,  |

10.25 Germany)  
Title: "**Efficient photoelectrochemical H<sub>2</sub> generation: physical boundary conditions, promising device structures, and materials science challenges**"

*Coffee Break: 10.25 – 10.50*

## **Session 2: Recycling, reuse and eco-conception**

- S2.1 10.50–11.15 Claire Tutenuit (Entreprises pour l'Environnement)  
Titre : « **Towards circular economy ? Challenges for materials** »
- S2.2 11.15–11.40 Prof. Dr. Ing. habil. Oliver Gutfleisch (Technische Universität Darmstadt, and Fraunhofer IWKS Hanau)  
Title: "**Rare Earth Re-Use and Recycling**"
- S2.3 11.40–12.05 Veolia or Solvay (tbc)
- S2.4 12.05–12.30 Arnaud Parenty (Association Alliance Chimie Recyclage, France)  
Title: "**Chemistry: a key role in achieving circular economy**"

*Lunch Break: 12.30 – 14.00*

## **Session 3: Round table**

- S3.1 14.00–14.45 Keynote lecture: Prof. Philippe Chalmin (Paris Dauphine University, France)  
Title : "**Raw Materials : from scarcity to a decarbonized circular economy**"
- S3.2 14.45–15.45 Round table moderated by C. Tutenuit (EpE)
- S3.3 15.45–16.00 Conclusion and closing  
by C. Tutenuit (EpE), G. Dennler (E-MRS), E. Fogarassy (E-MRS)