



Design, implementation and production upscaling of novel, high-performance, cluster-based catalysts for CO<sub>2</sub> hydrogenation

## Deliverable D6.1

### NWT1: Kick-off Meeting



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## Deliverable D6.1 NWT1: Kick-off Meeting – September 14-17, 2021, Leuven

The first Network Training event (NWT1) of Catchy organized by KU Leuven and VITO was held in Leuven, Belgium. This meeting consisted of a [Project day](#) for Catchy members on September 14th and [three days of training](#) (September 15 to 17th), also open to Master and PhD students external to the Catchy network.

### 1. CATCHY Project Day September 14 @ 9:00 am – 10:30 pm

Catchy Project Day (Day 1) was held at the conference facility of the Martin's Klooster hotel in Leuven city centre (full programme below). The day was introduced by the coordinator and training lead, who presented respectively CATCHY's objectives with the proposed methodology and the future network training events as well as the PCDPs template for the ESRs. The introduction was followed by the presentations of the activities/expertise of all beneficiaries and associate partners. Finally, the leaders of the 5 S&T work packages discussed the main issues of their respective WPs. The day was ended with a closing dinner. The meeting was attended in person by a total of 28 participants, including all ESRs hired so far. Additionally, 3 persons (Christian Gebauer, Hereaus associate partner, and ESRs 4 and 7) made a presentation and/or followed the meeting online.

#### Programme

Time	Description	Presenter
<b>Day one</b> – Sept 14	<b>Martin's Klooster</b>	
09:00 – 10:00	<b>Registration and Welcome</b>	
10:00 – 10:30	Catchy Coordinator	Ewald Janssens Joost Bakker
10:30 – 12:30	<b>Partners Presentation 1</b>	
10:30 – 10:45	KU Leuven	Ewald Janssens
10:45 – 11:00	BME	Laszlo Nyulaszi
11:00 – 11:15	DTU	Christian Danvad Damsgaard
11:15 – 11:30	Tear Coatings Ltd	Jinlong Yin
11:30 – 11:45	PSI	Olga Safonova Juan Herranz Salaner
11:45 – 12:00	UU	Sandra Lang
12:00 – 12:15	FETI	Tibor Höltzl
12:15 – 12:30	UA	Lucian Covaci
	<b>Lunch</b>	

14:00 – 15:00	Partners Presentation 2	
14:00 – 14:15	RU	Joost Bakker
14:15 – 14:30	VITO	Jan Vaes
14:30 – 14:45	Heraeus Precious Metals	Christian Gebauer
14:45 – 15:00	ETH Zurich	Christian Coperet
15:00 – 17:30	Scientific discussions	
15:00 – 15:20	WP1	Peter Lievens
15:20 – 15:40	WP2	Olga Safonova
15:40 – 16:00	WP3	Tibor Höitzl
16:00 – 16:50	Poster Session Coffee / Tea Break	
16:50 – 17:10	WP4	Sandra Lang
17:10 – 17:30	WP5	Christian Danvad Damsgaard
	Break	
19:30 – 22:00	<b>Dinner</b>	

## 2. CATCHY Kick-off Training September 15 @ 9:00 am – September 17 @ 3:30 pm









CATCHY Kick-off Training entitled “(Electro)catalysts for the capture and conversion of atmospheric CO<sub>2</sub> into added-value fuels” was held at College De Valk 3 (KU Leuven) in Leuven (full programme below). The training was open to external Master and PhD students.

The Kick-off Training was divided in two parts:

- A S&T training (Days 2 & 3) consisting of a Truncus communis with state-of-the-art on thermo- and electro-catalysts for the capture and conversion of atmospheric CO<sub>2</sub> into added-value fuels (experts from in- and outside CATCHY).
- A Skills training (Day 4) composed of courses aimed to transfer skills needed to successfully complete a PhD project such as scientific communication, data management, research integrity, and diversity in research teams.

A total of 28 participants including 8 external PhD student participants from KU Leuven, University of Duisburg-Essen, Germany and Université de Lorraine, France attended the training event in person and 5 persons were additionally presenting and/or following the meeting online. The gender balance was good with 12 females attending the lectures. The 8 lectures of the S&T training event were presented by 5 invited speaker outside Catchy network: Atsushi Urakawa (TU Delft, the Netherlands), Knut Asmis (University of Leipzig, Germany), Tom Breugelmans (University of Antwerp, ELCAT), and Dirk De Vos (KU Leuven) plus 7 speakers from the Catchy partners. The 4 lectures of the skill training were presented by 5 invited speakers from VITO (Bart Doods) and KU Leuven (Anouk D’Hont, Mark Verbrugge, Joyce Koeman and Steven De Peuter). The lectures are made available on the Catchy website (intranet) for Catchy members.

## Programme

Time	Description	Presenter
<b>Sept 15</b> <b>College De Valk 3 (01.25)</b> 		
(Day 2) <b>KU Leuven</b>		
09:00 – 10:30	Clusters for conversion of sustainable energy	<b>Ib Chorkendorff</b> DTU 
<b>Coffee / Tea Break</b> (Pieter De Somer Aula)		
11:00 – 12:30	Atomic scale design of selectivity of catalysts for CO <sub>2</sub> hydrogenation	<b>Christophe Copéret</b> ETH Zürich 
<b>Lunch</b> (Pieter De Somer Aula)		
14:00 – 15:30	Gas Phase Clusters as Model Systems for Active Sites in Heterogeneous Catalysis	<b>Knut Asmis</b> University of Leipzig 
<b>Coffee / Tea Break</b> (Pieter De Somer Aula)		
<b>Sept 16</b> <b>College De Valk 3 (01.25)</b> 		
(Day 3) <b>KU Leuven</b>		
09:00 – 10:30	Mems microreactors for clusters-based (electro)catalysts activity testing	<b>Christian Danvad Damsgaard</b> <b>Jakob Kibsgaard</b> DTU  
<b>Coffee / Tea Break</b> (Pieter De Somer Aula)		
11:00 – 12:00	High pressure CO <sub>2</sub> hydrogenation catalysis	<b>Atsushi Urakawa</b> TU Delft 
<b>Lunch</b> (Pieter De Somer Aula)		

14:00 – Introduction to the in situ characterization cluster-  
15:30 based (electro)catalysts with XAFS and TEM

**Olga Safonova**  
**Juan Herranz Salaner**  
PSI  
**Sara Bals**  
UA-EMAT



**Coffee / Tea Break** (Pieter De Somer Aula)

16:00 – The guiding principles behind electrocatalysis  
17:00

**Tom Breugelmans**  
UA-ELCAT



17:00 – Electrochemical CO<sub>2</sub> reduction applied to synthesis  
17:30 of organics

**Dirk de Vos**  
KU Leuven



**Sept 17** **College De Valk 3 (01.25)**  
(Day 4) **KU Leuven**



09:00 – Open science skills:  
10:30 Scientific communication beyond publication

**Bart Doods**  
VITO



**Coffee / Tea Break** (Pieter De Somer Aula)

11:00 – Data management and Open data  
12:30

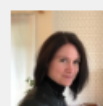
Mark Verbrugge,  
**Anouk D'Hont**  
2Bergen  
KU Leuven



**Lunch** (Pieter De Somer Aula)

13:15 – Implicit bias and team  
14:30 dynamics

**Joyce Koeman**  
*Diversity Policy Office*  
KU Leuven



14:30 – Research integrity  
15:30

**Steven De Peuter**  
*Faculty of Psychology and  
Educational Sciences*  
KU Leuven



15:30 **End of Kick-off meeting**

### 3. Photo gallery

