



COLLABORATIVE CATALYSIS IN A CHANGING WORLD

A collaborative event organized by YEUCat with the support of EFCATS

Segovia, September 06-10, 2021

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Why?

Solving the societal and environmental problems humankind faces requires a multi-perspective and multidisciplinary approach (UN Development Goal 17). To put this to practice, an unprecedented level of collaboration between scientists of a variety of countries, background and discipline is crucial.

What?

The aim of “YEuCat better together” is to actively train and engage young people in collaboratively solving relevant societal problems via catalysis.

How?

Active learning: “Learn collaborative problem solving by collaborating in the resolution of a specific societal problem”. Background knowledge and tips will be conveyed via dedicated workshops while we, as a group of young researchers in catalysis, will be responsible for the whole decision-making process.

Quests

There are four decision points corresponding to four generic research goals or **quests** aiming at reaching an innovative solution contributing to the societal issue at stake.



- Societal topic: UN-SDG 13: Climate Action (decided via online polling)
- First quest (Q1): we will identify bottlenecks in solving climate change, i.e. what are the main contributors (e.g. molecule, process, industry) to climate change that cannot be mitigated yet.
- Second quest (Q2): we will brainstorm on the chemical reactions/ processes that could address the key issue.
- Third quest (Q3): we will detail the proposed solutions in terms of what catalytic systems could efficiently carry out the identified reaction(s).
- Fourth quest (Q4): we will design and generate divulgation means for the proposed solutions.

At the end of every quest there will be a decision point (DP) in which the various groups present their ideas and a decision is made to move to the next quest. In the last quest, no decision needs to be taken, rather the final milestone (MS) is to generate the divulgation material. This will be shared immediately under a CC-BY-2.0 license, except for the conference report to be published in ChemCatChem.

Workshops

Diversity workshop (by Elena Bascones, ICM-CONIC): how to promote a better and inclusive science and ensure a welcoming atmosphere in Research.

Collaboration workshop (by Pilar G. de Viedma, Go4it Desarrollo de Talento): practical exercises aiming at raising awareness of cooperation needs and what it takes to have a healthy teamwork environment.

Scientific writing workshop (by Sandra G. Gallardo, ChemCatChem): tips on scientific divulgation and writing with a specific focus on conference reports.

Expert feedback

Marta Liras, researcher at IMDEA, who has participated in a large number of European projects related to photocatalysis and Eva M^a Maya, researcher at CSIC, develops her research in CO₂ conversion, will provide insights into the proposal, developed by the participants, in a round table session.

Where?

Real Academia de Historia y Arte de San Quirce, Calle de Capuchinos Alta, 4 y 6. 40001 Segovia.

UVA - Campus María Zambrano de Segovia, Pl. de la Universidad, 1, 40005 Segovia.

Hotel Hotel ELE Acueducto, Av. Padre Claret, 10, 40001 Segovia.

When?

	Monday	Tuesday	Wednesday	Thursday	Friday
Location	Real Academia de Historia y Arte	UVA - Campus María Zambrano de Segovia			
08:30					Q4: divulgation
09:00		Diversity workshop	Q2: chemical solutions	Q3: catalytic solutions	Scientific writing workshop
09:30					
10:00					
10:30			Break	Break	Break
11:00		Break		Expert feedback	Q4: divulgation
11:30		Q1-DP: key bottlenecks	Q2: chemical solutions		Q4-MS: divulgation material
12:00					
12:30					
13:00		Lunch	Lunch	Lunch	Lunch
13:30					
14:00	Kick-off				
14:30	Teams building	Collaboration workshop	Q2-DP: best chemical solution(s)	Q3: catalytic solutions	
15:00	Q1: bottlenecks				
15:30					
16:00	Break	Social event	Break		
16:30					
17:00	Collaboration workshop		Q3-DP: best catalytic solution(s)		
17:30					
18:00					
18:30	Q1: bottlenecks				
19:00					
19:30	Dinner	Dinner	Dinner	Dinner	
20:00					
20:30					
21:00					

How to get there?

This is the route flow from Madrid Airport to the hotel in Segovia.



From the Airport to Chamartin Train Station.

From the airport take either a **Cercanías train** or a **Metro** to Chamartin. In case you take Metro, you will have to change the line in *Nuevos Ministerios Station*. You can also take a **taxi**, there is a close price of 30€. Uber or Cabify might be cheaper.

From Chamartin Train Station to Segovia-Guioamar Train Station

In Chamartin, you can take a direct train to Segovia. It is recommendable to buy the tickets in advance here (<https://www.renfe.com/es/es>). It takes 30 minutes to get to Segovia. The name of the Station is Segovia Guioamar.

From Segovia-Guioamar Train Station to Hotel ELE Acueducto.

Once you are in Segovia you can take either a **taxi** (average 6-10 €) or a **Bus** to the hotel. There are only two different buses, please ask for the **line 11**, the one that goes to the aqueduct, the hotel is right there.