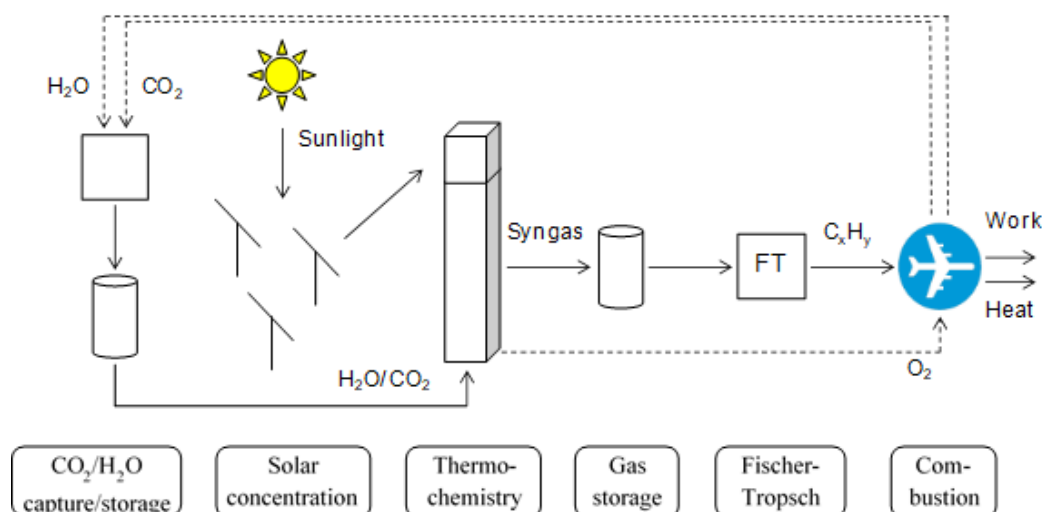


H2020 SUN-to-LIQUID Summer School



Date: June, 25th-29th
 Venue: Classroom 110
 Building "Aulario I"
 Campus of Mostoles
 Rey Juan Carlos University
 C/ Tulipan s/n.
 Móstoles 28933

1. Summary

In the current situation of environmental stress caused by the global warming, solar fuels arise as a key alternative to conventional fossil fuels. Solar fuel production is truly scalable as less than 1% of the arid land is sufficient to meet the global fuel demand. Adverse effects due to direct or indirect land use change are very low compared to conventional biofuel pathways. Furthermore, low water consumption is a distinct feature of solar thermochemical fuel production. This course will present the main features of the different processes to obtain them, addressing different aspects such as technical, economic, environmental...

The course is mainly oriented to MSc and PhD students who want to achieve a higher degree of specialisation in this field, but also to other students with a specific interest in these topics and a limited amount of time. It is organized by the research team of the "SUNlight-to-LIQUID: Integrated solar-thermochemical synthesis of liquid hydrocarbon fuel" (SUN-to-LIQUID) project.

Didactical methods used in the summer school include lectures given by senior researchers and individual and group exercises.

2. Course details

Course language: English

Number of participants: 25

Total hours: 20 (theoretical and practicum). This will be confirmed by a certificate of participation, but it will not have ECTS equivalents

Laptop is required

WiFi provided

3. Selection of participants

Registration fee for the course is: 50 € (includes documentation and lunches)

The applicants should upload all the requested information (letter of interest and CV) in <https://goo.gl/forms/o9Ulc7oeol1J3tGm2>

Due to places limitation, the following selection criteria will be applied: (i) CV, (ii) Letter of interest, (iii) Gender balance, (iv) Country balance

4. Important dates

15th May 2018 Pre-registration

25th May 2018 Announcement of participants accepted

8th June 2018 Registration and Payment of the registration fee

5. Organizing committee

The course is organized by IMDEA Energy within the framework of the SUN-to-LIQUID project (Contract 654408)

Organisers:

Prof. Javier Dufour

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Scientific Secretariat:

Dr. José Luis Gálvez

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With the support of



6. Agenda

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
		Sun-to-fuel processes: CSP	Sun-to-fuel alternative processes	Techno-economic and environmental assessment	Impact of alternative fuels in the EU
10:00-11:00		Manuel Romero <i>IMDEA Energy Institute</i>	Victor de la Peña <i>IMDEA Energy Institute</i>	Diego Iribarren <i>IMDEA Energy Institute</i>	Samuele Furfari <i>Université Libre de Bruxelles</i>
11:00-11:30		<i>Coffe break</i>	<i>Coffe break</i>	<i>Coffe break</i>	<i>Coffe break</i>
11:30-13:30		Stefan Zoller <i>ETH Zürich</i>	Paul Lucchese <i>CEA</i>	Christoph Falter <i>Bauhaus Luftfahrt e.V.</i>	Farewell
		Andreas Sizmann <i>Bauhaus Luftfahrt e.V.</i>	Rufino Navarro <i>ICP-CSIC</i>	Natalia Caldes <i>CIEMAT</i>	Juan Antonio Melero <i>Rey Juan Carlos Univ.</i>
13:30-15:00		<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	
15:00-18:00		<i>Practicum</i>			
		SUN to LIQUID experimental installation	Photoactivated processes lab	Process simulation	
18:00-19:00	Registration and Welcome Reception				

7. Logistics

➤ Accommodation

IMDEA recommends the following hotels:

Hotel Ciudad de Móstoles

Location: <https://goo.gl/maps/YYP3PSkDcxD2>

Hotel is 10 minutes walk away from IMDEA premises, 8 minutes walk from the train station El Soto and 20 minutes walk from the metro station Universidad Rey Juan Carlos.

Booking can be made by phone or per e-mail. Please provide the booking reference IMDEA to benefit from IMDEA reduced rates: 65€ for a single room, breakfast and VAT included
75€ for a double room, breakfast and VAT included

Hotel Ciudad De Móstoles

Ctra. Móstoles-Villaviciosa de Odón Km. 0,200; 28931, Móstoles, Madrid

Tel: +34 916 140 669, Email: recepcion@h-ciudadmostoles.com

<http://www.hotelciudadmostoles.es/en>

Sercotel Spa La Princesa

Carretera M-506 Km. 9, salida Móstoles centro, 28922 Móstoles, Spain

Price about 65 Euro per night (breakfast not included)

Hotel is about 1.9 km from the train station renfe Mostoles central. From there you may take a train to Mostoles El Soto station to IMDEA

Location: <https://goo.gl/maps/spQkrKbbSu92>

Hotel Ibis budget Madrid Alcorcón Móstoles (cheapest option)

Price about 43 Euro per night (breakfast not included)

Location: <https://goo.gl/maps/HB3poLtgmcS2>

Hotel is about 1.2 km from train Station of Mostoles Central. From there you may take a train to Mostoles El Soto station to visit IMDEA.

<https://goo.gl/QAozZb>

Hotel website:

<http://www.ibis.com/gb/hotel-3201-ibis-budget-madrid-alcorcon-mostoles/index.shtml>

Hotel NH Alcorcon (another option)

Prices between 60-80 Euro per night.

Location: <https://goo.gl/maps/kx18miARE5F2>

From hotel you can take metro at station “Parque Oeste” and get out at the next stop “Universidad Rey Juan Carlos”. From University just cross the campus and the bridge to IMDEA. See link with the route:

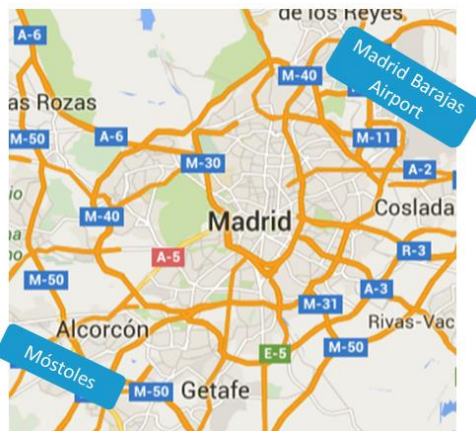
<https://goo.gl/maps/eXriQsv7nu92>

Hotel website :

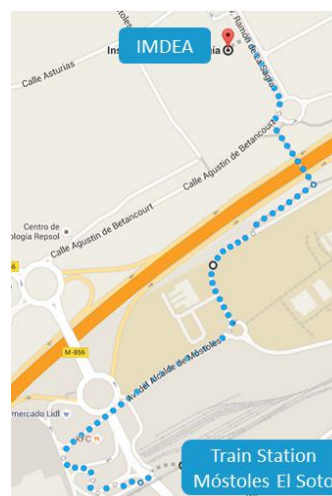
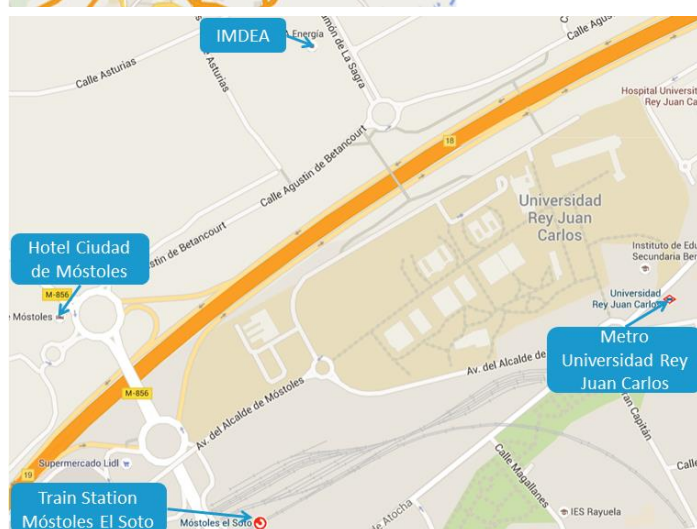
<https://goo.gl/N43bpS>

In case you would prefer staying in Madrid downtown, you will be able to easily reach IMDEA either by metro or by train (see information below). Please count with about 30 minutes journey each way.

➤ Directions



The city of Móstoles is located in the South West of Madrid and the Airport Madrid-Barajas is in the North East of the city.



IMDEA premises are about 15 to 20 minutes walking distance from the regional train station Móstoles El Soto. It is recommended to **follow a path via the Rey Juan Carlos University Campus** as shown on the map right.

By taxi

- From the airport to IMDEA or Hotel Ciudad de Móstoles: count with 30 minutes and between 50-60€
- From Madrid centre to IMDEA or Hotel Ciudad de Móstoles: count with 25 minutes and between 25-30€

By public transport

- From the airport, it is recommended to take the regional train called “Cercanias” and departing from terminal 4 at Madrid Barajas. There is a bus connection between terminal 2 and terminal 4.
- In terminal 4, you will have to buy a train ticket to Móstoles El Soto.
- From the terminal 4, take the line C1 heading to Atocha Railway Station and get off at Atocha Station.
- From Atocha Station, take the line C5 heading to Móstoles EL Soto, which is the final station. Get off there.
- It will take you ca. 1:10 hour and cost around 2.7 €. The line C1 to Atocha departs every 30 minutes and the line C5 to Móstoles El Soto departs every 10 minutes.
- Timetables for regional train can be consulted [here](#).

Alternative route:

- Atocha Station can be reached with the Express bus airport departing from the airport every 15-20 minutes. The journey to Atocha Station by bus takes ca. 30 minutes depending on the traffic. You will need to purchase separate ticket for the train and the regional train.
- Further information on the Express bus airport can be found [here](#).
- From Atocha Station to Móstoles El Soto, please follow instructions above.