



*Joint European Summer School on Fuel Cell,  
Electrolyser, and Battery Technologies  
JESS 2020*

*Week 2 - Advanced Modules &  
The Modelling Master Class  
14 – 18 September 2020*

*Hotel Amarilia,  
Vouliagmeni, Athens, Greece*



sponsored and supported by



## INTRODUCTION

Increasing environmental problems with conventional energy technology are stimulating the demand for alternative energy solutions. With air quality reaching catastrophic levels in large cities worldwide, Fuel Cell Electric Vehicles offer the ideal combination of clean power with the amenities of electric drives. Hydrogen use on vehicles, nevertheless, also raises some issues about safe handling. As fuel cells and hydrogen applications, including vehicles, approach technological maturity, developing their business cases becomes crucial in introducing them to the consumer markets.

The Joint European Summer School JESS 2020 addresses these issues by offering high quality graduate level modules on selected topics of vehicle technology, innovation & business development, safe handling of hydrogen, and modelling. This series of summer schools has been ongoing since 2004 and targets an audience of **university students** (MSc and PhD levels) and **post-doctoral researchers**. We also welcome more **experienced researchers and engineers** wishing to expand their general knowledge, for instance, to suit a newly acquired position or collect credits for Continuous Professional Development (CPD). The module content is tailored to the needs of a diverse audience: **newcomers to the field, experienced students, and young professionals** working at the forefront of fuel cell and hydrogen applications.

Week 2 (14 – 18 Sept 2020) offers three advanced modules in

- Fuel Cell Electric Vehicles,
- Hydrogen Safety, and
- The Modelling Master Class.

During the second week of Summer School the main focus will be on the technological and innovation aspects. Building on previous student experience, these modules will offer specialised insights into vehicle technology, and safe handling of hydrogen. The Master Class will give students the opportunity to present their own research projects and discuss problems in modelling and simulation with their lecturers and peers in order to get valuable impulses for their work. In addition to the lectures, the participants will be asked to join in student projects where the content of the lectures is applied to a case study to be presented at the end of the week. The Business Development module will unfortunately not run this year due to conflicts of dates.

The JESS modules are accredited at the University of Birmingham and each carry 3 ECTS points (see below).

The previous week (Week 1) will offer three introductory modules to high and low temperature fuel cells and electrolysers, and battery technology (please refer to the separate programme). The two weeks are conducted independently of each other and students can choose the modules most appropriate to their studies.

## NETWORKING WITH EXPERTS IN THE FIELD

The school draws on the knowledge and expertise of a carefully selected group of lecturers currently working at the leading edge of research and development in Europe and associated to universities, national research centres, and industry.

Informal networking is a key element of science and scientific work in general. JESS offers ample opportunity for networking with peers and seasoned scientists. Students will be asked to give a short introduction to themselves and briefly present the research work they are doing (or expect to be doing).

## CERTIFICATE OF ATTENDANCE

A Certificate of Attendance will be issued to all students of JESS. This Certificate of Attendance can be used for acquiring CPD points. The modules are accredited at the Technical University of Denmark and the universities of Aachen and Birmingham. On taking the optional final exam of their respective module, students can be attributed 3 ECTS points (10 credits in the UK system) for use in their studies.

## ORGANISING COMMITTEE

Prof Robert Steinberger-Wilckens (U Birmingham, United Kingdom)

Prof Vladimir Molkov (Ulster University, United Kingdom)

## LECTURERS

The following distinguished lecturers have already confirmed their participation in JESS 2020:

Robert Steinberger-Wilckens	University of Birmingham, UK
Birgit Thoben	Lausanne, Switzerland
Ferdinand Panik	retired from University of Esslingen, Germany
Jiri Hrdlica	University of Chemnitz, Germany
Thomas von Unwerth	University of Chemnitz, Germany
Alessio Alexiadis	University of Birmingham, UK
Volodymyr Shentsov	Ulster University, UK
Dmitriy Makarov	Ulster University, UK
N.N.	Toyota Europe, Belgium

You can find brief CV's of the lecturers, programme updates, and information on past events on the JESS web site: <http://www.jess-summerschool.eu/JESS-2020>

The current status of the programme with the general lectures for all participants and the specialised talks has been included in this brochure.

## LOCATION & VENUE

**Athens** is the capital and largest city of Greece. Athens dominates the Attica region and is one of the world's oldest cities, with its recorded history spanning around 3,400 years. Classical Athens was a powerful city-state. The heritage of the classical era is still evident in the city, represented by ancient monuments and works of art, the most famous of all being the Parthenon, considered a key landmark of early Western civilisation. The city also retains Roman and Byzantine monuments, as well as a smaller number of Ottoman monuments. It is home to two UNESCO World Heritage Sites, the Acropolis of Athens and the medieval Daphni Monastery. Landmarks of the modern era, dating back to the establishment of Athens as the capital of the independent Greek state in 1834, include the Hellenic Parliament (19th century) and the Athens Trilogy, consisting of the National Library of Greece, the Athens University and the Academy of Athens.

The hotel hosting the school is located only steps away from a sandy beach in the Vouliagmeni area, 17 km from Athens city centre and 19 km from Athens international airport. All rooms have individual controlled A/C, free WiFi internet access, hairdryer, mini fridge, LCD TV and DVD player. More details can be found at <http://www.amarilia.gr/>.

## HOW TO REGISTER

To register, fill in one of the forms attached at the end of this document, scan, and send to the e-mail addresses on the form. Or follow the registration links on the web site

<http://www.jess-summerschool.eu/JESS-2020>

The final deadline for registration is **15 August 2020**.

## **PARTICIPATION FEE**

The registration fee is 1.485,- €/module and covers tuition fees, accommodation in single room from Sunday 13 to Saturday 19 Sept 2020. This includes full board (meals and coffee breaks), the drinks reception, end-of-week banquet, and excursion.

Double room occupancy is charged at 1.285,- €/module and person. Accompanying persons sharing a double room with a participant and not taking part in the lectures are charged at 620 € for the 6-day stay (including all meals and events).

All prices include Greek V.A.T.

There are special rates for additional nights; please enquire, if interested. Participants wishing to arrive early or stay longer should make their [own arrangements](#) with our booking partner, Panhellas Tourism & Congress (see below).

**COVID-19** - As you might expect, we have a special clause covering the Pandemic here:

If – for whatever reason (no flights, quarantine on entry of Greece, not being allowed to hold meetings of more than 20 persons etc.) - we are not able to or it is unreasonable to conduct JESS 2020 in person at the hotel, we will convert the event into online live teaching. You will receive all tuition and content, minus the in-person contact, the drinks and the food. Bad, but today considered relatively unlikely..

Evidently, for this the registration fee will be considerably reduced. Since we do not yet 100% know the circumstances, we reserve the right to convert the meeting at our discretion. We will refund you the difference to the modified fee immediately after JESS 2020.

Upon taking the exam (online and by Zoom interview) you will receive the ECTS certificate.

## **CORRESPONDENCE**

For issues concerning registration and payment please contact Ms Manuela Drape-Stathoglou at Panhellas Tourism & Congress:

Mail to: [manuela@panhellas.gr](mailto:manuela@panhellas.gr), Tel: +30 2810 300847.

She is also the contact person for any issues relating to the hotel, booking additional nights, and for questions about meals and the excursion.

If you have any [dietary requirements](#) with respect to food choice or food allergies, please contact Mrs. Drape-Stathoglou in due time before the Summer School.

Lecturer information and arrangements - [r.steinbergerwilckens@bham.ac.uk](mailto:r.steinbergerwilckens@bham.ac.uk)

Student and general information - [J.C.Hooper@bham.ac.uk](mailto:J.C.Hooper@bham.ac.uk), Phone +44 121 414 5275

## **CANCELLATION POLICY**

To cancel your registration with JESS, send an email stating your intent to [manuela@panhellas.gr](mailto:manuela@panhellas.gr)

Refunds will be subject to a cancellation fee. If your request arrives by 15 August 2020, the registration fee will be refunded after the school applying a cancellation fee of 350,00 € off the processed registration fee.

**No reimbursement will be made for cancellations received after 15 August 2020.**

## **LIABILITY**

The school secretariat and organisers cannot accept liability for personal accidents, loss of or damage to private property of participants and/or accompanying persons, either during, or directly arising from the JESS 2020. Participants should make their own arrangements with respect to health and travel insurance.

## Reaching Amarilia Hotel from Athens international airport 'Eleftherios Venizelos'

### By bus and/or/ metro

There is a bus service X96 from the arrivals terminal in Athens International Airport (Eleftherios Venizelos). The trip to the closest bus station to Amarilia Hotel (named 'Pegadakia') takes approx. 35-40 minutes and the cost is ~ € 5,00. From the bus station 'Pegadakia' you turn left onto the main avenue and walk 10 minutes before you turn right off the avenue into street Ag. Nikolaou and arrive at Amarilia Hotel, on the left side after 100 m.

You can also take the metro from the airport (blue line), change at 'Syntagma' to the red line to terminus 'Helleniko'. From there you can take a bus no. 122 to the stop 'Ag. Nikolaos' on the avenue close to the hotel. Walk back from the bus stop for about 20 m and turn left into Ag. Nikolaou. Or take a taxi from 'Helleniko' – about 5 to 10 minutes ride.

### By car

You drive on the highway until the KOROPI - MARKOPOULO sign and you exit to the left. Then you follow the signs to GLYFADA and drive along the Vari - Koropi Avenue at the end of which there is a sign VOULIAGMENI where you turn left. After 300m, you reach a traffic light; you turn right in the small street 15m after the traffic lights, then right in the first street and then right to Agiou Nikolaou street. This is VOULIAGMENI area and it is where our hotel is located. The distance from the Airport is 19km (20 minutes driving distance).

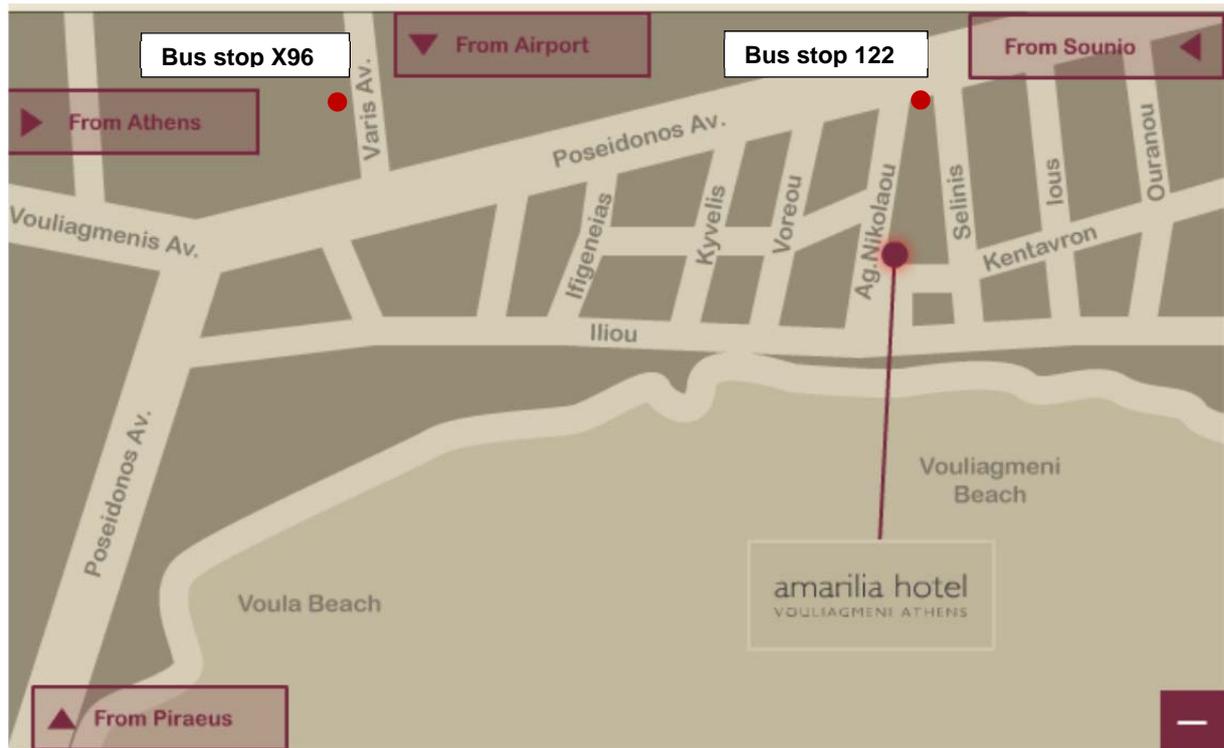
### By taxi

Either take one of the taxis from the airport or pre-book a taxi from Panhellas mail: [manuela@panhellas.gr](mailto:manuela@panhellas.gr), Tel: +30 2810 300847.

Both will cost around € 50,00 (one way). This fee is not included in the registration fee and has to be paid separately.

Manuela Drape-Stathoglou can arrange for shared taxis, depending on when participants arrive. Please contact her in case you want to use this option.

The full address of the hotel is: Hotel Amarilia, 13 Agiou Nikolaou, 16671 Vouliagmeni, Greece.



**Joint European Summer School for Fuel Cell, Electrolyser and  
Battery Technologies – JESS 2020, WEEK 2**

Hotel Amarilia, Athens - Greece  
14.-18.09.2020

Title				
Surname/Family Name/Last Name				
Name				
Gender	Male	<input type="checkbox"/>	Female	<input type="checkbox"/>
University/Institute/Company Name				
Street				
Postal Code				
Town / City				
Country				
Vat Nr of University/Institute (if applicable)				
Phone				
E-mail				
Athens arrival date and time				
Athens departure date and time				
Remarks/Special requested				

**I would like to sign up for the following module:**

(You are allowed to register only for 1 Module, but you may change your course during the summer school and we are flexible with attending specific lectures)

<input type="checkbox"/>	Fuel Cells Electric Vehicles
<input type="checkbox"/>	Hydrogen Safety
<input type="checkbox"/>	The Modelling Master Class

**REGISTRATION FEES**

		Rate in Euro per person
In Single occupancy		Euro 1485,00
In Double occupancy		Euro 1285,00 per person

In case of accommodation in a double room,  
we need to know the name of the 2<sup>nd</sup> person, sharing the room.

(\*) **An additional** 'hotel tax' payment of €3 per night will be due to the hotel on arrival.

**Accompanying persons** sharing a double room with a participant and **not taking part in the lectures** are charged at 620 € for the 6-day stay (including all meals, events and the excursion).

**Supplement for additional overnights:** Before, after or between the school

Single room: Euro 90,00 per night (only with breakfast)

Double room: Euro 120,00 per night (only with breakfast)

Please book \_\_\_\_\_ additional overnight/s for the period  
from \_\_\_\_\_ to \_\_\_\_\_ at Hotel \_\_\_\_\_

**Supplement for private taxi transfer:**

from Athens Airport to Amarilia Hotel or vice versa

for the rate of **Euro 57,00** per taxi per way (max. 3 persons)

In case of arrivals or departure between 22:00-08:00, there will be a night  
supplement of Euro 15,00

Private Transfer Yes  No

Date: \_\_\_\_\_ Flight Number: \_\_\_\_\_ Arrival Time: \_\_\_\_\_

Date: \_\_\_\_\_ Flight Number: \_\_\_\_\_ Departure Time: \_\_\_\_\_

Special Notes: \_\_\_\_\_  
\_\_\_\_\_

**DEADLINE FOR REGISTRATIONS: 15.08.2020**

**TOTAL AMOUNT FOR ALL SERVICES: EURO \_\_\_\_\_**

**Payment by:**

**(PAYMENT MUST BE ARRANGED WITHIN 10 DAYS FROM THE DAY OF THE REGISTRATION. IF WE HAVE NOT RECEIVED ANY NEWS OR PAYMENT FROM THE APPLICANT, WE WILL PROCEED WITH THE CANCELLATION OF THE REGISTRATION)**

**A.  Bank Deposit**

PIRAEUS BANK  
N.ERYTHREA – ATHENS  
ACCOUNT NR.: 6728 – 113712 – 215 (PANHELLAS S.A.)  
SWIFT – BIC: PIRBGRAA  
IBAN: GR97 0171 7280 0067 2811 3712215

**Account name – Panhellas S.A**

**Please do not forget to mention:**

**14.-18.09.2020 - JESS 2020 (2<sup>nd</sup> WEEK) – Name of the participant**

**B.  Credit Card: (+3,5 % of the final amount)**

**I authorize Panhellas S.A. to collect the amount of Euro \_\_\_\_\_ from my credit card**

VISA     MASTER

Card no : \_\_\_\_\_

Exp. Date \_\_\_\_\_

Last three digits of the number at the backside of the card \_\_\_\_\_

Cardholder's Name \_\_\_\_\_

Date \_\_\_\_\_

In case of cancellation until 15.08.2020, a 3,5% bank charge will be granted and the rest of the amount will be reimbursed.

**Please sent the registration to:**

JESS 2020 – Secretary - Manuela Drape Stathoglou [Manuela@panhellas.gr](mailto:Manuela@panhellas.gr)