



IC1301 –WiPE

International Summer School
on

Wireless Power Transmission for Space
Applications



23-26 June 2014

Aveiro, Portugal

Chair: Nuno Borges Carvalho

Vice-chair: Pedro Cruz

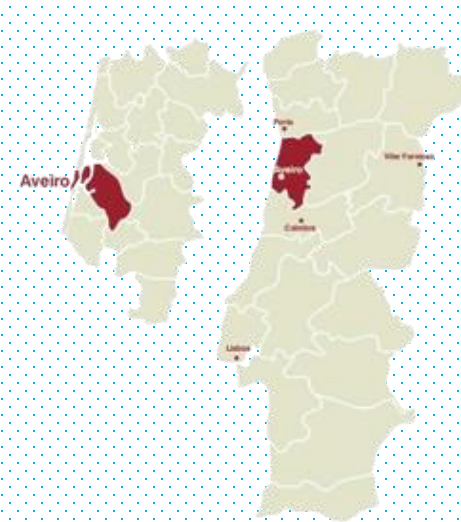


cost
EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY



AVEIRO

PORTUGAL



Discover Portugal's answer to Venice – the pretty coastal town of Aveiro.

Soak up the charms of Aveiro's town center on a walking tour, and then see the sights surrounding its canals from a traditional 'moliceiro' boat.



AVEIRO @ <http://www.aveiro.eu>

The seat of the municipality is the city of Aveiro, with about 67,003 inhabitants in the 10 parishes, in an area of 97.5 Km². Located on the shore of the Atlantic Ocean, Aveiro is an industrial city focused on Telecommunications with an important seaport. The city of Aveiro is also the capital of the District of Aveiro, and the largest city in the Baixo Vouga intermunicipal community sub-region (CIRA).



UNIVERSITY @ <http://www.ua.pt>

The University of Aveiro was created in 1973 and is considered one of the most dynamic and innovative universities of Portugal, attracting thousands of students to the city. The University has about 430 professors (with Ph.D. degree), 11,000 undergraduate students and 1,300 post-graduate students.



AVEIRO, PORTUGAL



HOW TO REACH

Flying to Portugal

The nearest airport is at Porto (OPO) at 85Km. The Lisbon airport (LIS) is at 248Km.

From OPO airport to Aveiro by car (from north)

The city is connected to highway number 1 (A1) which is the main road of the country. Drive via A1 · 86.1 km, 53min. The city is also connected by highway number 29 (A29). Drive via A29 · 84.2 km, 53min. Both are toll road.

From LIS airport to Aveiro by car (from south)

Reach Aveiro through A1 highway. Drive via A1 · 248 km, 2 h 10 min. Toll road

Reach to Aveiro through A17 highway, which is linked to A8 highway from Lisbon. Drive via A17 and A8 · 254 km, 2 h 10 min. Toll road.

From SPAIN to Aveiro by car (from east)

The city is connected to highway number 25 (A25) and Autovia de Castilla/A-62 highway, that comes from Spain through Salamanca. Drive via A25 and Autovia de Castilla/A-62 · 308 km, 2 h 58 min. Toll road

From OPO airport to Aveiro by train

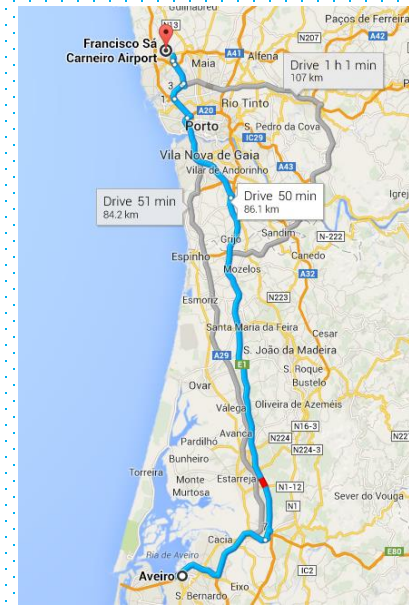
Take the Underground (<http://www.metrodoporto.pt/en/>) in the airport to Estação de Campanhã (<http://www.cp.pt>), and then take the train to Aveiro. (train time about 30 minutes using Alfa train)

From LIS airport to Aveiro by train

Take the Underground (<http://www.metrolisboa.pt/eng/>) in the airport to Estação do Oriente (<http://www.cp.pt>), and then take the train to Aveiro. (train time about 2 hours using Alfa train)

By bus

There are coaches that connect Aveiro to a lot of Portuguese cities and also cities in Spain.



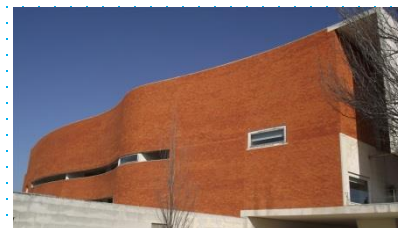


An Exemplary Campus

Campus Santiago, overlooking the Aveiro lagoon, is a prize-winning Campus, renowned for its many buildings designed by famous Portuguese architects. Its buildings are purpose-built for teaching and research, administrative and technical support, and include halls of residence for students and staff, libraries, bookshop, canteens, bars and restaurants, sports facilities, laundry, post-office, stores, bank, kindergarten – all this on one campus, surrounded by the natural beauty of the old saltpans and only a short distance from the city center.

Some facts and figures.

Campus total area 921,500m² ;
Buildings on campus 65;
Canteens 4 - meals served daily 5,385;
Cafeterias 20;
Halls of residence 34 - number of beds 1,044;
Departments and autonomous sections 16;
Polytechnic schools 4;
Libraries and media-library - books 317,239; audiovisual publications 16,505; electronic periodicals 18,000;
Computers on campus 10,500 - wireless coverage on campus 100%



IC1301 –WIPE PROGRAM



International Summer School in Wireless Power Transmission for Space Applications				
Day	Schedule	Title	Speaker	Affiliation
Monday	09:00–09:30	Welcome and Introduction		
	09:30–11:00		TBA	European Space Agency
	11:00–11:30	Coffee Break		
	11:30–13:00		Luca Roselli	University of Perugia Italy
	13:00–14:00	Lunch		
	14:00–15:30	WPT on Space	Shigeo Kawazaki	JAXA – Japan Aerospace Exploration Agency Japan
	15:30–16:00	Coffee Break		
	16:00–17:30	WPT	Zoya Popovic	University of Colorado USA
Tuesday	09:30–11:00	WPT signal design for improved efficiency	Nuno Carvalho	Instituto de Telecomunicações – Universidade de Aveiro Portugal
	11:00–11:30	Coffee Break		
	11:30–13:00	The Space Call for H2020	João Romana	FCT Portugal
	13:00–14:00	Lunch		
	14:00–15:30	Lightweight and low-power system for localization and powering of distributed devices	Alessandra Costanzo	University of Bologna Italy
	15:30–16:00	Coffee Break		
	16:00–17:30	Applications	Alex Takaks	Laboratoire d'Analyse et d'Architecture des Systèmes (LAAS) France

IC1301 –WIPE PROGRAM



International Summer School in Wireless Power Transmission for Space Applications				
Day	Schedule	Title	Speaker	Affiliation
Wednesday	09:30-11:00	Directing and focusing electromagnetic waves using leaky and travelling wave concepts for wireless power transmission	George Goussetis	Herriot-Watt University Scotland
	11:00-11:30	Coffee Break		
	11:30-13:00	Antennas for WPT	Pedro Pinho	Instituto de Telecomunicações – ISEL Portugal
	13:00-14:00	Lunch		
	14:00-15:30			TBA
	15:30-16:00	Coffee Break		
	16:00-17:30		Apostolos Georgiadis	CTTC-Barcelona Spain
Thursday	09:30-11:00	Electronic Design for Space Applications	Rodolfo Matins	Evoleo Portugal
	11:00-11:30	Coffee Break		
	11:30-13:00	Property Rights	Marcelino Pousa and Isilda Costa	Instituto de Telecomunicações and PT Inovação e Sistemas. Portugal
	13:00-14:00	Lunch		
	14:00-15:30	Hands on Laboratory	Pedro Cruz	Instituto de Telecomunicações – Universidade de Aveiro Portugal
	15:30-16:00	Coffee Break		
	16:00-17:30	Hands on Laboratory	Diogo Ribeiro	National Instruments

Social Program



The Fábrica isn't just for teenagers and children... it's a place open to the public in general! Come to the Fábrica and relate to the world that surrounds us. Start by planning a visit with the help of the following information.

The Kitchen is a Laboratory is a kitchen just like every other kitchen! But here we explore the chemical reactions that occur in food when it is being cooked.

[from grain to bread](#) | [my chocolate cake is full of molecules](#)

Our **lab** has got glass walls! We want the things that are discussed to be crystal clear...

[make your own toothpaste](#) | [let's check out the DNA of kiwi fruit](#) | [sticky monsters](#) | [the color of light](#)

Robotics is now a reality in our everyday life. The Fábrica offers you an opportunity of programming a robot and observing its "behavior".

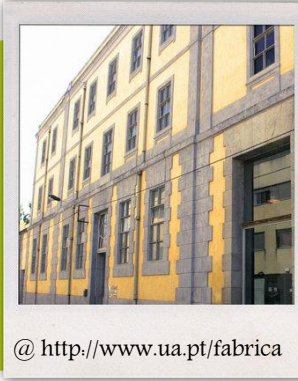
[micro mice in the Fábrica](#) | [robot workshop](#)

If you reach a high level in these activities feel free to book a work area and spend some hours (or days) programming a robot [Lego inventions](#).

3D Cinema

[Journey to the centre of a cell](#) is a lovely film. In the image forum Imagina this film won the Pixel Prize INA (National Institute of Audiovisuals) in the category of 3D film. [16400 feet under the sea](#) was awarded the "Originality Prize" in 2001 in the Festival of Sub aquatic Images.

FÁBRICA
CENTRO CIÊNCIA VIVA
aveiro



@ <http://www.ua.pt/fabrica>

Exhibitions

Until July 2007 [nanodialogue](#) wasn't just an exhibition. It was an activity that promoted reflection about nanosciences and nanotechnologies. You can give your opinion on the definition of policies by participating in socio-professional debates: Focus Group and DeCiDe.

Mind ball

Moving a ball using your brain may sound like magic... but its not! You are challenged to move a ball by using your brain waves... Want to know more [about](#) this?

Chemistry table

With theatrical lights and sound effects, you can watch chemical reactions in a show that communicates science.

[ImpaScience](#), science café is a place where visitors can talk to researchers. Visitors can ask questions about science and current technology in an informal way to the researchers. Check out our calendar. One of the topics may interest you.

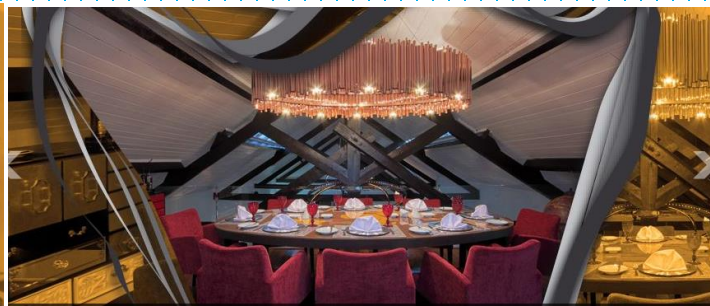
Social Program

Dinner @ Sal Poente

salpoente.pt/



"Salpoente is history, Salpoente is tradition, Salpoente is memory Aveiro with passion. They are portraits of moments that merge the city with Love ... personal, professional, with friends, and Taste. "



Registration

International Summer School on Wireless Power Transmission for Space Applications
23-26 June 2014
Aveiro, Portugal



Registration before June 10th 2014

Regular Registration – 150€

Student Registration – 50€

Please pre-register for the Summer School in this web-site:

<http://goo.gl/yy3RrZ>



AVEIRO, PORTUGAL



USEFUL INFORMATION

Shops – Mon to Sun. 09:00 – 19:00 hours, (Shopping Malls until 23:00)

Currency – The national currency is Euros (€). Credit cards accepted everywhere (with rare exceptions).

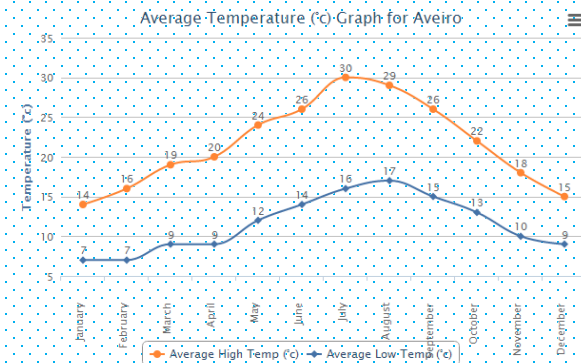
Electricity – The main supply is 220 Volts, compatible with the Walsall Gauge plug.



Weather – Temperature (avg, June): day: 24°C

Telephone Numbers

Emergency	112
Police	+351 234400290
University Aveiro	+351 234370350



Hotel Arrangements

MELIA HOTEL



The Meliá Ria Hotel (opening in the last quarter of 2005) is in a new development of high quality in the center of Aveiro, with views of the lake formed by the river Ria de Aveiro. Located near the Cultural Center and the Congress and the train station, within walking distance of the historic city center, 7 km of beaches and 60 minutes from the airport of Porto, with easy access by highways A1, IP5 and IC1.

<http://www.meliaria.com/>

Individual Room – 76€

Double Room – 86 €



Hotel Arrangements

IMPERIAL HOTEL



With a privilege location in the heart of the city, near the Museum of Aveiro, few minutes of the commercial center and the Tourism Office, the Imperial Hotel offers 4 single rooms, 81 double rooms and 22 suites with complete bathroom, hairdryer, air conditioning, satellite TV, Internet and mini-bar.

Our guests will feel tempted to indulge on the delicious and traditional menus of the famous Imperial restaurant.

The hotel offers a number of amenities, which include meeting and banquet rooms, bars and a solarium from where you can enjoy a breathtaking view of the city, river and ocean.

<http://www.hotelimperial.pt/en/>



Individual Room - 45€
Double Room - 59€



Hostel Arrangements

AVEIRO ROSSIO HOSTEL



Aveiro Hostel is a centenary house located in the heart of Aveiro, where the principal touristic and cultural sports are where you can find the best bars and restaurants. At the same time, Rossio area is the best place to find the local habitants, you just need to visit the fish market open everyday morning to see some of the most amazing figures in town

<http://www.aveiorossiohostel.com/>

