

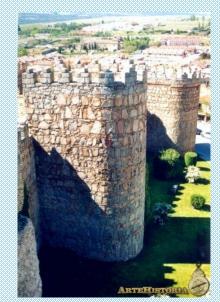
Ávila JULY 2-5, 2018

**PRESENTATION** MAIN INVITED **ORGANISATION PROGRAM AND CRITICAL DATES SOCIAL VENUE-VENUE-VENIUES TOPICS SPEAKERS EVENTS** HOTEL LOCATION GO TO ÁVILA **PARTICPANTS** 

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## ORGANISED BY THE SPANISH VACUUM SOCIETY on BEHALF OF IUVSTA

VENUE: HOTEL REINA ISABEL JULY 1-6-2018



Arrival:	Sunday,	1	July
Workshop days:	Monday	2 - Thursday 5	July
Departure:	Friday	6 after breakfast	July







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### NANOSCALE OXIDES SYSTEMS IN PHYSICS ANS CHEMISTRY

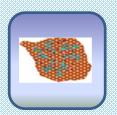
#### MAIN AIM OF THE WORKSHOPBY HIGHLY QUALIFY SPECIALIST IN THE FIELD

Nanoscale oxide systems ranging from ultrathin films to two-dimensional layers and oxide nanoparticles (nanorods) are ubiquitous in fundamental condensed matter research and a plethora of possible applications in cutting edge technologies are emerging]. Nanoscale oxides differ from their respective bulk materials due to an increased surface-to-volume ratio, due to proximity effects and due to their nanoscale spatial confinement, which all conspire to create novel physical and chemical properties. The presence of interfaces adds yet another degree of freedom in oxide nano-systems leading to the appearance of multifunctional behavior. The synthesis and fabrication of nanoscale oxide materials is still a challenge and their characterization to understand the tunability of functionalities that evolve due to their nanostructured nature provides another facet of challenge. In this workshop, we will examine and discuss transformative research in the area of oxide nano-systems. Issues of synthesis, characterization of structure as well as of emergent physical and chemical phenomena will be at the focus of this workshop. The workshop will assemble leading experts in the field to discuss the present state of the art and future opportunities in the area of nano-oxides, with special emphasis on the exchange of ideas between experimental and theoretical approaches. Emerging applications of nano-oxides in various fields of nanotechnology will provide another focus of the workshop.



1"The 2016 oxide electronic materials and oxide interfaces roadmap", J. Phys. D: Appl. Phys. 49(2016)433001





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## Sessions and TOPICS. Final sessions will be according to presentations

	Topic
<b>S-1</b>	Synthesis and characterization of nanoscale oxides
S-2	Structure of nanoscale oxides:
S-3	2-D oxide materiales
S-4	Oxide nanoparticles:
S-5	Oxide-support interfaces
S-6	Surface and catalytic chemistry:
S-7	Emergent phenomena in physics and chemistry /multifunctionality
S-8	Molecules on oxide surfaces:
S-9	ElectrElectronic properties of nanoscale oxides







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### **INVITES SPEAKERS**

	Торіс	NAME	INSTITUTION
S-1	Synthesis and characterization of nanoscale oxides	Luches, P.	Istituto Nanoscienze, CNRe, Modena, Italy
S-2	Structure of nanoscale oxides:	Barth, Clemens	Aix-Marseille University, CNRS. France
S-3	2-D oxide materiales	Widdra, Wolf	Universität Halle-Wittenberg, Germany
S-4	Oxide nanoparticles:	Stankic, Slavica	Universite Paris 06, France
S-5	Oxide-support interfaces	Castell, Martin	Oxford University, GB
S-6	Surface and catalytic chemistry:	Campbell, Charlie Ganduglia-Pirova, Veronica	University of Washington, USA CSIC-Madrid, Spain (theory)
S-7	Emergent phenomena in physics and chemistry/multifunctionality		
S-8	Molecules on oxide surfaces:	Grönbeck,, Henrik	Chalmers University, Sweden (theory)
S-9	ElectrElectronic properties of nanoscale oxides	Shluger, Alex	University College London, London, UK







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### **INVITES Attendees: At this date**

Topic	NAME	INSTITUTION
Atom-scale and nano-scale architecture of NaTaO3 photocatalysts for  > artificial photosynthesis Metal oxide single-crystal surfaces in  > liquids: Imaging with scanning probes	Hiroshi onishi	Chemiistry Department. Kobe University
Enhancing the oxygen electroreduction activity through electron tunnelling: CoOx ultrathin films on Pd(100)	Gaetano Granozzi	Department of Chemical Sciences. University of Padova







## **IUVSTA--ASEVA-27 WORKSHOP** NANOSCLAE OXIDES SYSTEMS IN PHYSICS AND CHEMISTER huila JULY 2-5, 2018

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### **ORGANISATION**

Name	Institution	Country	Field of work	
Dohnalek Z.	Pacific Northwest National Laboratory	USA	Oxide catalysis	
Gallego S.	Instituto de Ciencia de Materiales de Madrid	Spain	Oxide Surfaces	
Gomez –Silva A.	IUVSTA Nanometer Chair)	Portugal	Nanometer	
Gutierrez A.	ASS Spain representative	Spain	Applied Surface Science	
Huttel Y.	Nanometer Spain Representative		Nanometer	
Netzer F. (Co-Chairman)	Karl-Franzens University Graz	Austria	Oxides on metals, nanostructures	
Thornton G.(Co-Chairman)	University College London	UK	Nanostructures	
Widdra W.	Universität Halle-Wittenberg	Germany	Perovskite oxides	
Yubero F.	Thin Film Spain representative	Spain	Thin Films	
de Segovia J.L. (Coordinator)	ASEVA	Spain	Surface	

#### **WORKSHOP OFFICE**

PROF. J. L. de Segovia WS Coordinator: ASOCIACIÓN ESPAÑOLA DEL VACIO, ASEVA

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### **PROGRAMMEE** (in preparation)- PARTICIPANTS

The organization of the workshop is structured as follows: Each session will start with a review on a specific topic by an expert who will perform the presentation during one hour in a similar way as an invited lecture at a regular conference. After that, the session will be open to invited *attendees*, to present a work under development or final results,, with emphasis on possible problems, expected result or future trends, during half an hour including discussion.

Invited attendees are selected by the IPC on the basis of their expertise on a particular topic. However, other interested persons can also apply for an invitation. Please download form to apply for an invitation, fill in and and send by e-mail before March1, 2016 to ildesegovia@icmm.csic.es

The number of participants is limited to 50 on the basis of "first come first serve". If there are free places, the registration will be open to other selected applicants on the basis of their work.

\* For "Invited Attendees": Due to budget limitations waiving of registration fees, accommodation or traveling support cannot be granted.

If you need further information, contact: J. l. de Segovia <u>ildesegovia@icmm.csic.es</u>

Note

The WS has not publication, Authors could publish their work in the journal they want.







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Preliminary announcement	December	1	2017	
Announcement and call for presentations	January	1	2018	
Deadline for applications as an invited attendee	January	30	2017	
Second announcement and call for presentations	January	20	2018	
Deadline for abstracts	April	1	2018	
Acceptance of abstract	April	15	2018	
Preliminary programme	April	25	2018	
Deadline for Registration	May	1	2018	
Final programme	June	15	2018	
IUVSTA WS-86- ASEVA 27	July	2-5	2018 8	



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### **REGISTRATION**

## **DOWNLOAD** registration form

REGISTRATION Fees INCLUDEs (this is a package)			FEES € Before May 1	FEES € After May 1
ACCOMODATION (INCL. BUFFET BREAKFAST):	SUNDAY, MON	IDAY, TUESDAY, WEDNESDAY, THURSDAY		
SERVED LUNCHES:	MONDAY, TUE	SDAY, WEDNESDAY, THERSDAY		
COFFE BREAKS:	MONDAY, TUESDAY, WEDNESDAY, THURSDAY (mornings and afternoons)			
WELCOMWE PARTY:	SUNDAY	20:30-22:30		
WS DINNEER	THURSDAY	21:00		
Walking guided visit to the Town	Tuesday	20:00		
To <b>tal</b>			870	930







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### **Social events**

### **SOCIAL PROGRAM (In preparation)**

WELCOME PARTY	Sunday	1	at 20:30	HOTEL REINA ISABEL.
CONFERENCE DINNER	Thursday	5	at 21:00	HOTEL REINA ISABEL.
WALKING TOUR	Tuesday	3	at 20:00	







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**VENUE: The Hotel** 

HOTEL REINA ISABEL PASEO DE LA ESTACIÓN 17 05001 ÁVILA. SPAIN













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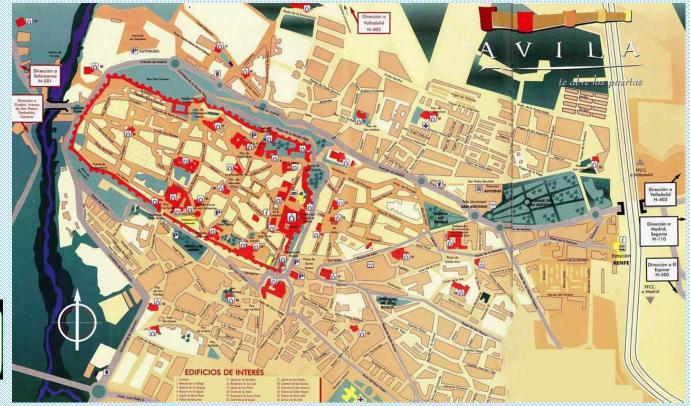
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### **VENUE: Location**









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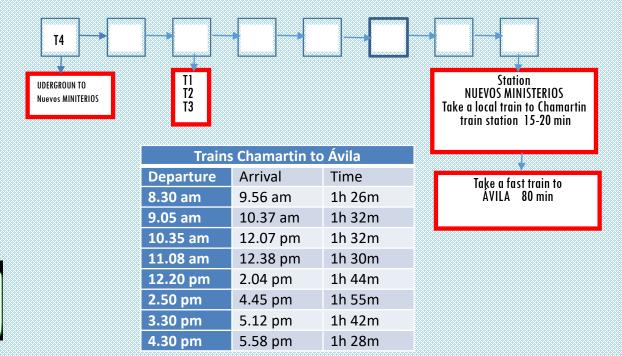
SOCIAL EVENTS VENUE-

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VENUE: How to go to Ávila from Madrid Airport: All terminals are linked by free shuttle

bus

VENUE: How to go to Ávila from Madrid Airport: Underground+fast train









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## By train from terminal T4 to Chamartín station

At terminal T4 take a local train to Chamartin station: FREQUENCY EVERY 30 MIN

T4>>Fuente de la Mora>>Valdebebas>>Chamartin station

## By car from Airport

Take a motorway to Madrid, then transfer to M40 north, indications A1, A6, continues until exit to A6, keep on A6 direction to Villacastin then take the motorway to Avila

By taxi to Chamartín station

Fare is aprox. 35 euros

HOTEL REINA ISABEL is about 200 m from the Avila train station

BY BUS FROM TERMINA T1: there is a bus departing at 15:30







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### VENUE: How to go to Ávila and about Ávila

- (1) Direct **Underground line 8** from Madrid Airport to Nuevos Ministerios train and underground stations ( Depending of the terminal the distance from the landing Gate to the Station can take 15-30 min. Underground stations are in Terminals T2(serving also T1 and T3) and T4).
- (2) Train from Nuevos Ministerios to Avila by slow trains approximately 2 hours. Alternartively
- go to Chamartin station (one stop) [la estación de Chamartín], where you can take either slow or faster trains to Ávila (1 h 15 min for faster trains.)
- Note: You can purchase the ticket through your travel agent in your country or by internet. For timetable and fares: see <a href="www.renfe.es">www.renfe.es</a> English version. Choose as Origin station "Madrid (\*)"
- (3) Taxi from Madrid Airport to the Chamartin station

Fare: Aprox. 30 Euros

If your driver does not understand English, tell him/her that "A la estación de Chamartín, por favor." [To the Chamartín station, please.]

Taxi to Ávila about 120-140 euros

(4) Rent-a-car from Madrid airport to Avila

From the airport take a motorway toward Madrid, then transfer to motorway M-40 north (A-1, A-6 indications) and take toll motorway A-6 at the exit of A-6/Villalba, keep on A-6 to the direction of Villacastin-Ávila. From Villacastin continue through the toll motorway to Avila.

(5) The REINA ISABEL is about 150 m from the Railway Station Information on Avila

Avila is located at about 115 km northwest of Madrid and at 1,130 m above sea level. The town was established in the 10th century and still has a strong fragrance of medieval town. It has a population of about 4,000.

The old town is surrounded by the walls [las murallas] which Christians constructed in the early 11th century to protect town from invasion of Islamites. The walls is 12 m in height, 3 m in width and 2,550 m in length. It looks very magnificent.

Avila is also famous for the town in which Santa Teresa de Jesús (1515-1582) was born. She devoted her whole life to the activity of Catholicism and established many convents all over Spain after having established Convento de San Jóse in 1562 in Avila. This convent is shown on the attached map as no. 26. Other monuments in Avila relevant to Santa Teresa are Convento de La Santa (no.15) which was established in 1636 where she was born and Convento de la Encarnación (no.10) where she lived for 30 years from age of 18. Catedral (no.1) and Museo Provincial [Provincial Museum] (no.21) are also recommended monuments to visit. More information is available through an internet website of Avila <a href="https://www.avila.net/">https://www.avila.net/</a> (in Spanish only).

