

IUVSTA-76-ASEVA-27 WORKSHOP

STRUCTURE OF ULTRA THIN FILMS OF OXIDES ON METAL SURFACES

Ávila JUNE 27-30, 2016

HOME	PRESENTATION	MAIN TOPICS	INVITED SPEAKERS	ORGANISATION	PROGRAM AND PARTICIPANTS	CRITICAL DATES	SOCIAL EVENTS	VENUE-HOTEL	VENUE-LOCATION	VENUES GO TO ÁVILA
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HOME

ORGANISED BY THE SPANISH VACUUM SOCIETY
on BEHALF OF IUVSTA

VENUE:

HOTEL REINA ISABEL
JUNE 27-30-2016

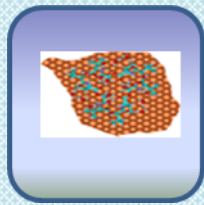


Arrival:	Sunday,	26	June
Workshop days:	Monday	27 - Thursday 30	June
Departure:	Friday	1	July
		after breakfast	



http://www.icmm.csic.es/aseva/iuvsta_76.html





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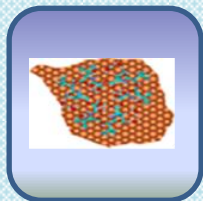
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STRUCTURE OF ULTRA THIN FILMS OF OXIDES ON METAL SURFACES

**MAIN AIM OF THE WORKSHOP IS TO DISCUSS THE STATE OF THE ART AND FUTURE OF
STRUCTURE OF ULTRA THIN FILMS OF OXIDES ON METAL SURFACES
BY HIGHLY QUALIFY SPECIALIST IN THE FIELD**

Oxide nanostructures on metal surfaces are excellent model systems to study fundamental properties of oxide materials at ultra-small scales and low dimensionality. Due to finite size and proximity effects, oxide nanostructures supported on metal surfaces may form new composite systems, oxide-metal hybrid systems, with novel properties that are not shared by the individual constituents. Interesting property aspects comprise new structure concepts, electronic behavior, magnetic effects and catalytic chemistry. This workshop will assemble leading experts in the field to discuss the present state-of-the art and future opportunities in the years to come. Possible applications of oxide ultrathin films are emerging in various diverse fields of nanotechnology and these will be identified.





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MAIN TOPICS (tentative)

Characterisation of oxides on metal surfaces: nanostructures and low-dimensional oxide systems

New methodologies to produce nanostructured oxide coatings

Molecules on oxide surfaces

High temperature nanostructured oxide coatings

Oxide coating induced modifications: chemistry, particles interaction

Nanotubes, nanowires and nanocrystals

Oxide ultrathin films: synthesis and preparation

Oxide ultrathin films: atomic structure and electronic properties

Chemistry on oxide surfaces: catalysis, photochemistry

Theoretical aspects of oxide thin films

Unusual properties of oxides in the ultrathin limit

High-k dielectric oxide thin films

Magnetic properties of oxide films





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INVITED SPEAKERS (preliminar)

INVITED SPEAKERS					
Ref.	Session	Topic	Invited Speaker	Preliminary title	Country
INV-001	S-1	Fabrication and growth of oxide thin films and nanostructures	Chambers Scott	Electronic and optical properties of epitaxial p-SrxLa1-xCrO3/n-SrTiO3(001) heterostructures	USA
INV-002	S-2.1	Characterization of oxide ultrathin films	Thornton Geoff	Growth and Characterisation of Ceria Ultrathin Films	United Kingdom
INV-003	S-2.2	Characterization of oxide ultrathin films	Nilius Niklas	Atomic-scale characterization and functionality of doped oxide materials	Germany
INV-004	S-3.1	Surface chemistry on oxide surfaces and nanostructures	Libuda Jörg	Surface chemistry of oxide-based model systems for energy-related catalysis: From ultrahigh vacuum to ambient and electrochemical environments	Germany
INV-005	S-3.2	Surface chemistry on oxide surfaces and nanostructures	Perez Ruben	Microscopic understanding of the catalytic activity of ceria with first-principles simulations	Spain
INV-006	S-5	Oxide surface structures (including single crystal surfaces, thicker oxide films and nanostructures)	Parkinson Garreth	Fe3O4(001): Structure, adsorption, and catalysis	Austria
INV-007	S-6	Magnetic and multiferroic properties of oxide thin films:	Brambilla Alberto	Ultrathin oxide films on ferromagnetic substrates	Italy
INV-008			Goniakowski J.	Theoretical Aspects of Oxide Thin Films.	France





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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 send by e-mail before March 1, 2016 to jldesegovia@icmm.csic.es and a copy to falko.netzer@uni-graz.at

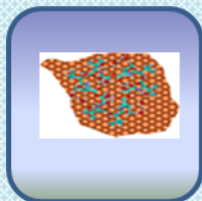
The number of participants is limited to 50 on the basis of "first come first serve". If there are free places, the registration will be open to other selected applicants on the basis of their work.

* 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. I. de Segovia** jldesegovia@icmm.csic.es

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





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PARTICIPANTS (preliminar)

Ref.	Name	Preliminary title	Country
001	Rupprechter G.	Ultrathin Films of ZrO ₂ and Co ₃ O ₄ /CoO for modelling reforming and oxidation catalysis	Austria
002	Grönbeck H.	Reactions and adsorbate-adsorbate interactions on thin oxide films.	Sweden
003	Lustemberg P. G.	On the Nature of Formate Species in the Decomposition and Reaction of Methanol over Cerium Oxide Surfaces: A Combined Infrared Spectroscopy and Density Functional Theory Study	Argentina
004	Risse Th.	Charge transfer processes on single crystalline alkaline earth oxide films	Germany
005	Mullins D. R.	Reactions of organic oxygenates on perovskite thin films	USA
006	Widdra W.	Vibrational spectroscopy and dielectric characterization of perovskite surfaces and thin films	Germany
007	Luches P.	Ceria films as model systems for reducible oxides	Italy
008	Schmid M.	Understanding ultra-thin zircon films: The structure is decisive!	Austria
009	Grybos J.-	Oxides nanocrystals – experimental and theoretical insight into surface structure and morphology	Poland





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PARTICIPANTS (preliminar)

010	Surnev S.									Ternary oxides at the two-dimensional limit: metal-tungstate nanolayers on metal surfaces	Austria
011	Sterrer M.									Auger parameter analysis applied to determine the adsorption state, reactivity, and charging of metal atoms and particles adsorbed on thin oxide films	Austria
012	Shluge A.									Electron and hole trapping processes in amorphous and polycrystalline thin oxide films and at inter-faces with Si and metal electrodes	United Kingdom
013	Rocca M. A.									Growth of nearly perfect MgO films on Ag(100) and spontaneous oxidation of Ni cluster grown thereon	Italy
014	Flege J. I.									In situ low-energy electron microscopy of transition and rare-earth metal oxides	Germany
015	Gandulla-Pirovano M.V.									Ni/CeO ₂ Model Catalyst for Hydrogen Production: The Role of Metal-Oxide Interactions	Spain
016	Jupille J.									Potassium Adsorption on TiO ₂ (110) Structural and Electronic Investigation	France
017	Honkala K.									The Activation of Simple Molecules over Supported Au clusters Induced by Electron Transfer from the Support	Finland
018	Dohnalek Z.									CeO ₂ nanoclusters on graphene/Ru(0001): A novel model catalytic system	USA
019	Matolin V.									Creating single-atom Pt-cerAMS catalysts by surface step decoration	Czech





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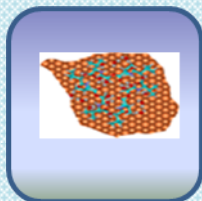
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PARTICIPANTS (preliminar)

020	Lauritsen J.			Atomic-scale studies of water dissociation on cobalt oxide nanoislands						Denmark
021	Sushko P.V.			The many faces of interstitial oxygen in complex oxides						USA
022	Precht W.			pending						Poland
023	Jupille J.			Hydrogen on ZnO and MgO Powders"						France
024	Büchner Ch			Adding An SiO2 Bilayer to the 2D Material Toolbox						Germany
025	Gallego S.			Tetrahedral environments at FeO(111) surfaces						Spain
026	Hermansson K			pending						Sweden
027	Jupille J.			Reactivity of Oxide Nanoparticles of Defined Orientations						France
028	Neyman K			Progress in Theoretical Modelling of Pt-ceramic nanocomposites						Spain
029	Sehn K.			Engineering the Electronic Structure of Correlated Oxide Surfaces						USA





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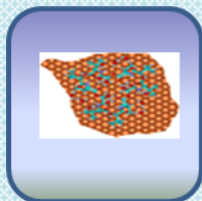
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PARTICIPANTS (preliminar)

030	Fernandez-Sanz J.									CeO _x /TiO ₂ Nanostructured Interfaces as Highly Active Catalysts: Insights from, First Principles Calculations	Spain
031	Skatkov L.									Using Mott-Schottky Equation for Studing the Influence of Defects in Niobium on the Properties of Nodic Niobium Nanostructure Thin Films	Ukraine
032	Weaver J.F.									Unraveling the Edge-Structures of Pt(111)-Supported Ultrathin FeO Islands: The Influence of Oxidation State	USA
033	Wendt S.									Unraveling the Edge-Structures of Pt(111)-Supported Ultrathin FeO Islands: The Influence of Oxidation State	Denmark
034	Bromley S.									Polymorphism and nano-to-bulk thickness transition in oxide thin films, Cluster-to-bulk growth of metal-supported oxide thin films	Spain
035	Stankic S.									Defect in Nanostructured ZnO: The role of Oxygen	France
036	Freund H-J									"Oxide film based metal-insulator-metal systems to control charge transfer and chemical reactivity"	Germany
037	Giordano L.									Charge transfer phenomena and chemical reactivity at oxide ultrathin films	Italy
038	Castell M.									Ultra-thin film structures of TiO _x on Au(111)	United Kingdom
039	Dupont C.									POTASSIUM ADSORPTION ON TiO ₂ (110): STRUCTURAL AND ELECTRONIC INVESTIGATION	France
040											
041	Bourgeois S.									Pending	France
042	Soares T.A.									Development of oxide films through anodization of Ti-6Al-4V(α+β) for Dye Sensitized Solar Cells	Germany





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Avila JUNE 27-30, 2016

Time table (preliminar)

TIME/DAY	SUNDAT JUNE 26	MONDAY-JUNE 27	TEUSD AY- JUNE 28	WEDNESDAY-JUNE 29	THURSDAY-JUNE 30	FRIDAY-JULY 19	
		Session 1	Session 3	Session 5	Session 7		
09:00-10:00		INV-1-1	INV-2-3	INV-5-5	INV-7-7	Breakfast	
10:00-10:30		IA-1-1	IA-10-3	IA-9-5	IA-28-7		
10:30-11:00		IA-2-1	IA-11-3	IA-20-5	IA-29-7	Departure	
11:00-11:30		COFFEE TIME					
11:30-12:00		IA-3-1	IA-12-3	IA-21-5	IA-30-7	An special morning session could be arranged according to number of admitted IA and oral presentations	
12:00-12:30		IA-4-1	IA-13-3	IA-22-5	IA-31-7		
12:30-13:00		IA-5-1	IA-14-3	IA-23-5	IA-32-7		
13:00-15:00		LUNCH					Departure
		ARRIVAL REGISTRATION AND ACCOMODATION	Session 2	Sesión 4	Session 6	Session 8	
16:00-17:00	INV-2-2		INV-4-4	INV-6-6	INV-8-8		
17:00-17:30	IA-6-1		IA-15-3	IA-24-5	IA-33-7		
17:30-18:00	COFFEE BREAK						
18:00-18:30	IA-7-2		IA-16-4	IA-25-6	IA-34-8		
18:30-19:00	IA-8-2		IA-17-4	IA-26-6	IA-35-8		
19:00-19:30	IA-9-2		IA-18-4	IA-27-7	IA-36-8		
Social events	GET TOGETHER PARTY 20:00-22:00		GUIDED WALKI NG TOUR 21:00-22:00	WS DINNER 21:00-24:00			



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ORGANISATION

International Programme Committee		
Name	Institution	Country
Dohnalek Z.	Pacific Northwest National Laboratory	USA
de Segovia J. L (Coordinator)	ICMM-CSIC/ASEVA	Spain
Gandulia-Pirovano V	ICP-CSIC and University of Milano	Spain-Italy
Grant J.A.	IUVSTA ASS Division	USA
Jupille J.	University Paris 06	France
Martín-Gago J.A.	Institute of Materials Science	Spain
Netzer F. (Chairman IPC)	Karl-Franzens University Graz	Austria
Pacchioni G.	University of Milano	Italy
Tagliaferro A	IUVSTA TF Division	USA
Teichert Ch.	IUVSTA APSS Division	NL
Thornton G.	University College London	UK
Varga P.	Technical University Vienna	Austria
Widdra W.	Universität Halle-Wittenberg	Germany

WORKSHOP OFFICE

Secretary: Mrs. Isabel Hernández Assistant(at Venue) Mr. David de Segovia

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CRITICAL DATES

Date	Activity		
Preliminary Program and call for presentations	January	1	2016
Deadline for invited attendees applications	March	1	2016
Deadline for abstracts	April	1	2016
Acceptance of abstract	April	15	2016
Preliminary programme	April	25	2016
Deadline for Registration	May	1	2016
Final programme	June	15	2016
IUVSTA WS-76- ASEVA 27	June	27-30	2016





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REGISTRATION

DOWNLOAD registration form

Participant	Fee € Before May 1, 2016	Fee € After May 1, 2016
<p>Registration fees, includes:</p> <p style="padding-left: 20px;">Accommodation + buffet breakfast</p> <p>Sunday-Monday-Tuesday-Wednesday-Thursday</p> <p style="padding-left: 20px;">Served Lunches: Monday-Tuesday-Wednesday-Thursday</p> <p>Coffee breaks: Mo-Tu-We-Th: mornings and afternoons</p> <p>Welcome party: July, Sunday 26. 20:30-22:00</p> <p>WS documentation :</p> <p style="padding-left: 20px;">Programme, abstract book and local information</p> <p>WS special dinner</p> <p style="padding-left: 20px;">Thursday 21:00</p> <p>Walking guided visit to the Town.</p> <p style="padding-left: 20px;">Tuesday 28, 20:00</p> <p>Dinners Mo-Tu-We:</p> <p style="padding-left: 20px;">are by yourself, so you can enjoy tasting typical “tapas” and meals around the city</p> <p>Note The WS has not publication. Authors could publish their work in the journal they want</p>		
TOTAL	780	860



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Social events

SOCIAL PROGRAM (In preparation)

WELCOME PARTY	Sunday	26		at 20:30	HOTEL REINA ISABEL.
CONFERENCE DINNER	Thursday	30		at 21:00	HOTEL REINA ISABEL.
WALKING TOUR	Tuesday	28		at 20:00	





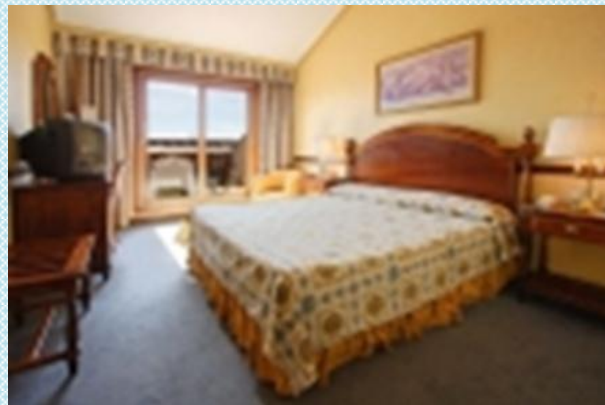
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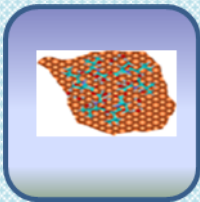
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VENUE: The Hotel

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





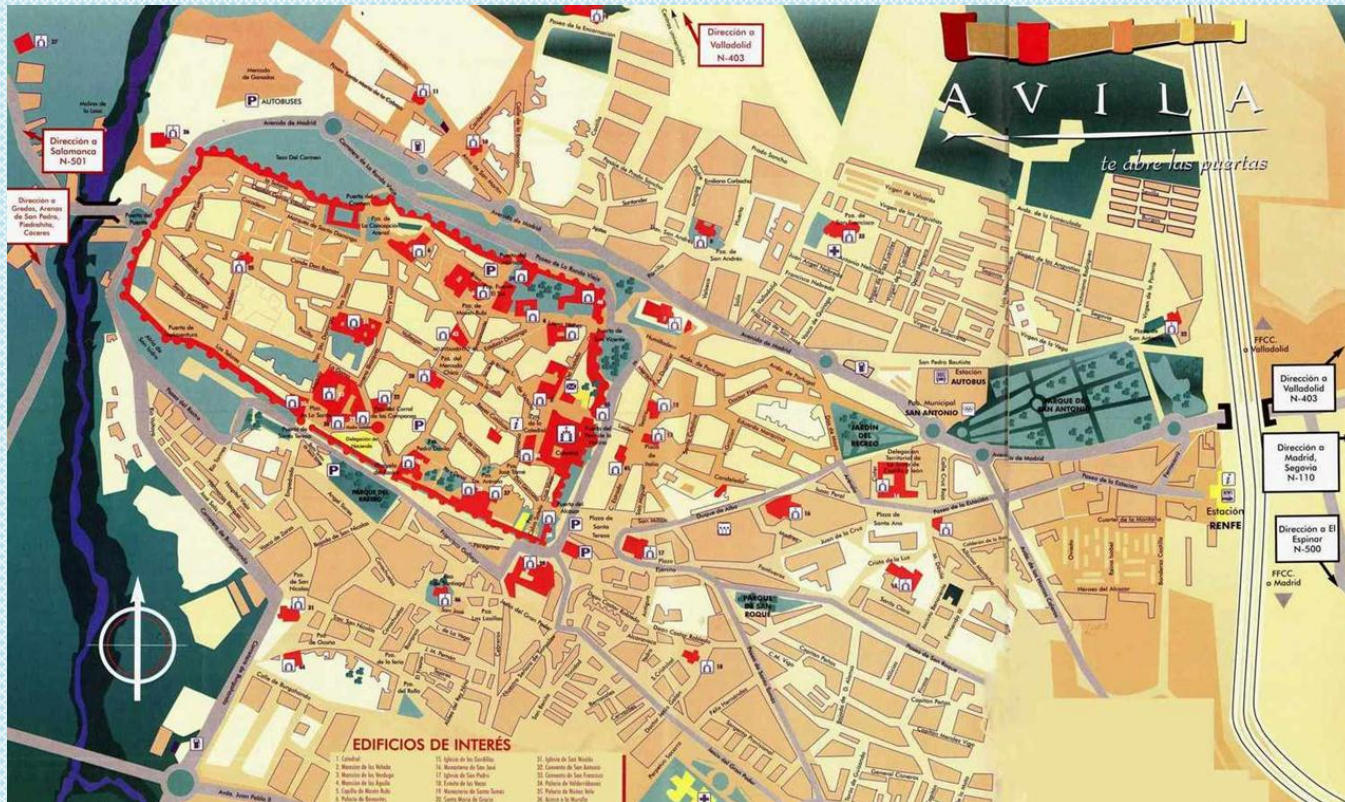
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VENUE: Location





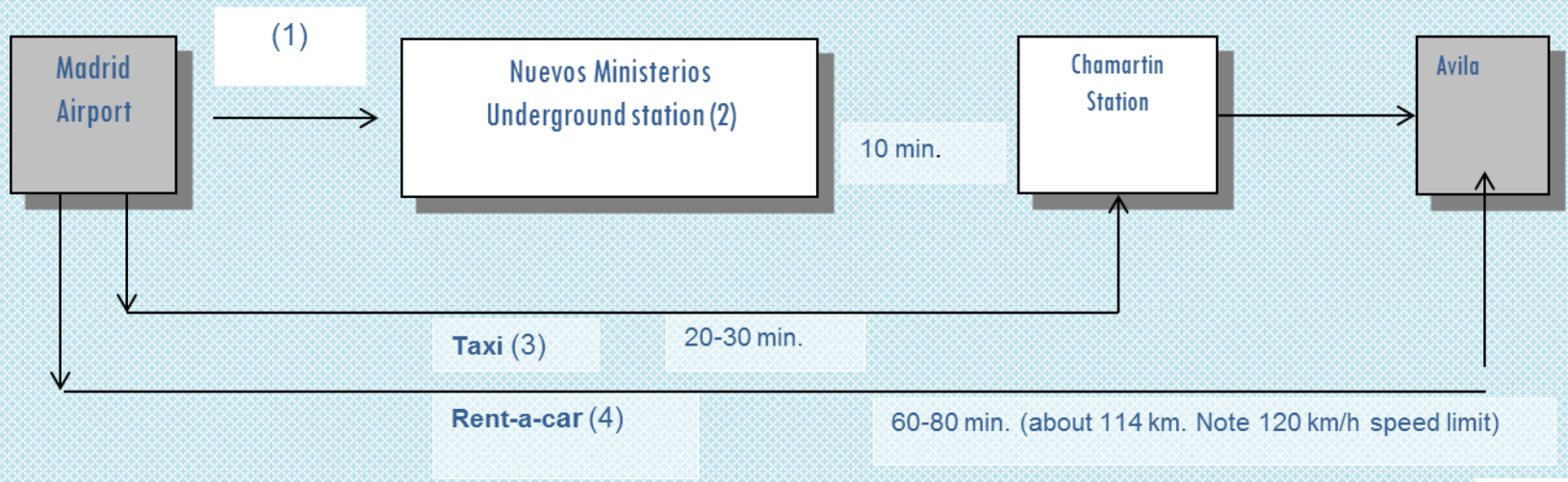
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VENUE: How to go to Ávila





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VENUE: 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 www.renfe.es 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 Chamartin 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 Villacastín-Ávila. From Villacastín 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 José 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 <<http://www.avila.net/>> (in Spanish only).



Budget for the Workshop (2016.10.24-28)

TITLE: IUVSTA WS-76				
VENUE: Ávila, Spain				
DATE: 26-06-16/01-07-16				
Income	Unit cost (EUR)	Quantity	Sub-Total (EUR)	Remarks
Registration Fee (per person)	780	20	15 600	30 registered participants plus 8 IS+WS Chairman
Registration Fee (per person)	860	3	2 580	After registration deadline
Registration Fee (per person)	670	1	670	Due to financial arrangement
Registration Fee (per person)	700	1	700	Due to financial arrangement
Registration Fee (per person)	140	1	140	Due to financial arrangement
Registration Fee (per person)	82	1	82	Due to financial arrangement
Registration Fee (per person)	164	3	492	Due to financial arrangement
TVS funding	0	0	0	Airticket partial funding
IUVSTA funding	6 000	1	6 000	Funding supports for invited speakers
Total (EUR)			26 264	
Expenditures	Unit cost (EUR)	Quantity	Sub-Total (EUR)	Remarks
Meals (4 days per person)	178	30	5 328	Lunch breaks, Dinner breaks, and Coffee breaks
Meals (4 days per invited speakers)	178	9	1 602	
Excursion (per person)	4	39	156	Working guided visit to the town
Banquet + welcome reception(per person)	80	30	2 400	
banquet + welcome reception(per invited speaker)	80	9	720	
Hotel Rooms (4 nights per participant)	318	30	9 540	
Meeting Rooms (per day)	0	4	0	
Hotel Rooms (4 nights per invited speaker)	318	9	2 862	
Advertisement	1 000	1	1 000	
Temporary Labors (per person)	350	5	1 750	
Miscellaneous (Overhead)	2 080	1	2 080	
Airticket partial funding (Europe/US, per person)	373	2	746	Partial funding for 3 invited speakers on request
Airticket partial funding (Asia Pacific, per person)	0	2	0	
Total (EUR)			28 184	