



Second Announcement and Call for Papers

International Symposium

Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials

Comprising training course and scientific conference

Deadline for abstracts:

March 20th, 2009

Aveiro, Portugal, June 23-27, 2009

Dear Colleagues

On behalf of the Organizing Committee of the International Symposium “Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials” – (PFM – 2009) I am pleased to announce that this Symposium will take place in Aveiro, Portugal from June 23 - 27, 2009.

Participants of this Symposium will have a unique opportunity to meet with colleagues, experts in PFM and major AFM manufacturers and exchange ideas in a friendly and congenial environment. There will be ample opportunities to discuss the state-of-the-art approaches, present your own work and consult with the experts in both informal discussions and formal panel sessions.

Portugal is one of the world’s most stunning locations and is a popular tourist destination filled with natural beauty, historical monuments and a rich variety of stimulating activities.

We hope that you will actively participate in PFM-2009 and join us for both the stimulating scientific sessions and the special flavour of Portugal, a country full of unique history and surrounded by beautiful beaches and natural beauty.

Andrei Kholkin

Chairman of PFM – 2009

COMMITTEES

Chairman: Andrei Kholkin, Portugal

Local Committee

Alejandro Heredia Barbero
Igor Bdikin
Sergio Pereira
Paula Vilarinho
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Scientific Program Committee

Andrei Kholkin, Portugal
Nava Setter, Switzerland
Sergei V. Kalinin, USA

Secretariat: marina@ua.pt

LIST OF SPONSORS:



International Symposium Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials

TECHNICAL PROGRAM (Symposium)

Technical program of the satellite Symposium on “Nanoscale Phenomena in Polar Materials” consists of technical sessions (oral and poster presentations), invited/tutorial lectures, and a small number of special sessions on hot topics (to be announced).

Preliminary Timetable

	Tuesday, June 23, 2009	Wednesday, June 24, 2009	Thursday, June 25, 2009	Friday, June 26, 2009	Saturday, June 27, 2009
8:30 – 9:45	Tutorial 1	Tutorial 7	Tutorial 10	Tutorial 12	Closure session
10:00 – 11:15	Tutorial 2	Oral session	Oral session	Oral session	Excursion & Departure
11:30 – 12:45	Tutorial 3	Oral session	Oral session	Oral session	
12:45 – 14:00	LUNCH BREAK				
14:00 – 15:15	Tutorial 4	Oral session	Oral session	Oral session	
15:30 – 16:45	Tutorial 5	Poster session	Poster session	Poster session	
17:00 – 18:15	Tutorial 6	Tutorial 8	Tutorial 11	Poster session	
	Reception	Tutorial 9	Banquet Dinner		

TECHNICAL PROGRAM (Workshop)

Technical program the PFM Workshop consists of tutorial lectures given by experts in the areas related to PFM, laboratory classes to acquire hands-on experience in PFM and presentations by major PFM manufacturers (Agilent, Asylum, NT-MDT, and Veeco).

Preliminary Timetable

	Tuesday, June 23, 2009	Wednesday, June 24, 2009	Thursday, June 25, 2009	Friday, June 26, 2009
8:30 – 9:45	Tutorial 1	Tutorial 7	Tutorial 10	Tutorial 12
10:00 – 11:15	Tutorial 2	Parallel labs	Parallel labs	
11:30 – 12:45	Tutorial 3	Parallel labs	Parallel labs	
12:45 – 14:00	LUNCH			
14:00 – 15:15	Tutorial 4	Parallel labs	Parallel labs	
15:30 – 16:45	Tutorial 5	Presentations by PFM manufacturers	Parallel labs	
17:00 – 18:15	Tutorial 6	Tutorial 8	Tutorial 11	
20:00	Reception party	Tutorial 9	Banquet dinner	

Tutorials given by: Sergei Kalinin (ORNL, USA), Alexei Gruverman (Uni. Nebraska, USA), Marin Alexe (Max Planck Institute, Germany), Ricardo García (Institute of Microelectronics, Spain), Nicolai Pertsev (Research Center Jülich, Germany & Ioffe Institute, Russia), Andrei Kholkin (Uni. Aveiro, Portugal)

Parallel Labs with hands-on experience:

Instruments provided by Asylum, Agilent, NT-MDT, and Veeco

Lab 1: PFM imaging

High-frequency imaging and topographic cross-talk

Hysteresis acquisition

Domain writing and relaxation

Lab 2: PFM imaging

Switching Spectroscopy Imaging

Imaging in capacitors

Lab 3: PFM imaging

High-resolution imaging

Hysteresis acquisition

Lab 4: PFM imaging

Piezoresponse calibration

Domain lithography

CALL FOR ABSTRACTS

Participants are requested to submit an abstract to the Secretariat **NO LATER THAN March 20th, 2009** together with the registration form. Abstracts will be reviewed and assigned to appropriate sessions. Authors will be notified regarding abstract acceptance. Accepted abstracts will be printed in a special issue of IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control (TUFFC). Please indicate if you are submitting the abstract for oral or poster presentation. Authors will be notified of the method of presentation.

Method of Submission

Abstracts should be submitted by e-mail: marina@ua.pt. If you have no access to the internet, please contact the Secretariat.

International Symposium Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials

Guidelines For Abstract Submission

The abstract should correspond to the conference scope, length 2 pages A4 maximum. Fit to A4 page and include title, affiliation and emails of the authors. Download the template at <http://pfm4.web.ua.pt/abstract.htm>. Figures can be included but the total file size should not exceed 1 Mb. Format of the abstract files: Word (.doc) or Adobe (.pdf).

GENERAL INFORMATION

Dates

June 23 - 27, 2009

Venue

Centro de Investigação em Materiais Cerâmicos e Compositos (CICECO)
Edifício de Complexo Laboratorial, Universidade de Aveiro
3810-193 Aveiro, Portugal

Secretariat: marina@ua.pt

Travel Information

Aveiro is a city located on the Atlantic coast of Portugal. It is 70 km south of Porto and 230 km north of Lisbon. These two cities are linked by air to most international cities. From Lisbon or Porto you can reach Aveiro easily by train, bus or car. For further information regarding the airport and transportation to and from Aveiro, please visit the Symposium website:

http://pfm4.web.ua.pt/travel_information.htm.

Some participants may require visas in order to enter Portugal. Please check with your local Portugal Consulate or Embassy.

REGISTRATION

Participants may choose two options to register:

- PFM Workshop + satellite Symposium (entitles to access to both lectures/tutorials and labs to receive hands-on experience with PFM)
- Satellite Symposium on “Nanoscale Phenomena in Polar Materials” (entitles access only to lectures/tutorials)

Registration Fees For Participants Include:

- Participation in all scientific sessions (+laboratory classes for PFM workshop)
- Entrance to the exhibition & industrial presentations
- Lunch, coffee breaks, reception party and banquet
- All materials of the Symposium (including pdf files of tutorials)

Please, download registration form from the web site <http://pfm4.web.ua.pt/registration.htm>, fill in and send to marina@ua.pt (Word (.doc) or Adobe (.pdf) format)

Cancellation Policy

Refund of registration fees will be as follows:

Postmarked before **May 23, 2009** - 100% refund (minus 50€ handling fee)

Postmarked from **May 23, 2009** - 50% refund

No refund on cancellations sent after **June 15, 2009**

	Before April 23, 2009		April 24 – June 22, 2009		June 23, 2009	
	Participants	Students*	Participants	Students*	Participants	Students*
Only Symposium	€ 375	€ 250	€ 400	€ 300	€ 425	€ 350
Symposium and PFM Workshop	€ 525	€ 375	€ 550	€ 400	€ 575	€ 425
Additional ticket for reception	€ 30					
Additional ticket for banquet dinner	€ 55					

Payment Methods

You can pay by processing a payment into of our bank accounts, by sending a cheque (in EUROS only), by cash at the reception desk. For more information please see website <http://pfm4.web.ua.pt/registration.htm>.

Exhibitor and Sponsorship

A commercial exhibition will be held in conjunction with this Symposium. Companies and organizations working in the area of nanoscale research of polar materials are invited to present their products, services or literature.

Companies interested in participating in the exhibition or sponsoring the Symposium may request further information from organizers.

Important Notes

International Symposium “Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials” shall not be responsible for and shall be exempt from all liability in respect of any loss, damage, injury, accident, delay or inconvenience to any person, or his/her luggage or any other property for any reason whatsoever, for any tourist services provided. Personal travel and health insurance is recommended.