

ESMF2008

European School on Multiferroics

[HOME](#)[PROGRAM](#)[INVITED SPEAKERS](#)[REGISTRATION](#)[ORGANISERS](#)[LOCATION](#)[CONTACT](#)[Home](#)[Abstracts/Posters](#)[Hotel Reservation](#)[Contributions](#)

WELCOME to the homepage of the European

School on Multiferroics

1st to 5th of September 2008

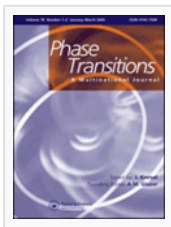
We are pleased to inform you that we are organizing the "2nd European School on Multiferroics (ESMF-2)" which will take place from Monday 1st to Friday 5th of September 2008, at Campus Universitat Girona. This European School on Multiferroics follows the successful 1st edition which took place in July 2007 at Grenoble under the auspice of the European Network of Excellence "FAME".

The targeted audience of -ESMF-2 includes both young and senior researchers new to the field of multiferroics, an attendance around 80 participants is expected.

ESMF-2 aims at building bridges of knowledge and cooperation between scientific communities that so far have been well apart. The lectures will cover understanding of relevant ferroic properties (ferroelectricity, ferromagnetism and ferroelasticity), as well as an overview on ferroic materials and finally, the more complex world of multiferroicity and multiferroic materials will be addressed. Emphasis on unconventional approaches to multiferroicity will be discussed. Conventional techniques for dielectric and ferroelectric characterization, addressing the critical role of boundary conditions will be included and complemented with lectures on advanced characterization. These lectures which provide an introduction to the field of multiferroics will be complemented by research-presentations on some of the current hot-topics.

The ESMF will be organized in the form of successive sessions, addressing the following topics,

- Ferroic properties and ferroic materials.
 1. Oxides and beyond
 2. Size effects in ferroics
 3. Ferroic oxides on Silicon
- Multifunctional materials
- Theoretical approaches to multiferroics
- Advanced characterization
 1. Dielectric characterization
 2. Proximity probes
- Physics of interfaces



Important Dead Lines

Registration:

1st July 2008

Abstracts:

20th July 2008

Contribution from

speakers:

20th July 2008

[ESMF2007](#)

ESMF2008

European School on Multiferroics



- HOME
- PROGRAM
- INVITED SPEAKERS
- REGISTRATION
- ORGANISERS
- LOCATION
- CONTACT

Program

	Monday, 1st	Tuesday, 2nd	Wed, 3rd	Thursday, 4th	Friday, 5th
8:30 10:00		Session 3: Kleemann: <i>Introduction to magnetism and relevant magnetic structures</i>	Session 7: Kleemann: <i>Multiferroics: basics and more exotics</i>	Session 10: Kohlstedt: <i>Understanding ferroelectricity and magnetoelectric behavior from first principles</i>	Session 14: Iñiguez: <i>Electric properties of metal-insulator interfaces</i>
10:00 10:30		Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:30 12:00		Session 4: Cheong: <i>Unconventional approaches to multiferroic materials</i>	Session 8: Scott: <i>Size effects in ferroic systems</i>	Session 11: Perez-Mato: <i>Symmetry and Phase transitions in multiferroics</i>	Session 15: Palstra: <i>Beyond oxide-ferroelectrics: new ferroelectric materials</i>
12:00 13:00		Session 5: Catalan: <i>Measuring multiferroics: basic concepts, common artifacts and new challenges</i>	Session 9: Sánchez: <i>Multiferroic thin film</i>	Session 12: Dubourdieu: <i>Oxides on silicon</i>	Session 16: Kholkin: <i>Atomic Probes</i>
13:00 15:00		Lunch	Lunch	Lunch	Lunch
15:00 16:30	Session 1: Thomas: <i>Introduction to ferroelectrics</i>	Session 6: Kenzelmann: <i>Magnetic field induced ferroelectricity</i>	Excursion	Session 13: Keller: <i>Magneto-optics: What can be learned of Multiferroics</i>	
16:30 17:00	Coffee Break	Coffee Break		Coffee Break	

17:00 18:00	Session 2: Salje : <i>Ferroelasticity and ferroelastic materials</i>	Poster session 1 DOC		Poster Session 2 DOC
18:00 18:30		Contributed Oral Session 1 DOC		Contributed Oral Session 2 DOC
18:30 19:00				
21:00 23:00				Social Dinner

ESMF2008

European School on Multiferroics



[HOME](#)

[PROGRAM](#)

[INVITED SPEAKERS](#)

[REGISTRATION](#)

[ORGANISERS](#)

[LOCATION](#)

[CONTACT](#)

[Home](#)

[Abstracts/Posters](#)

[Hotel Reservation](#)

[Contributions](#)



Invited Speakers

P.A. Thomas	Introduction to ferroelectrics
EKH Salje	Ferroelasticity and ferroelastic materials
Wolfgang Kleemann	Introduction to magnetism and relevant magnetic structures
J.F. Scott	Size effects in ferroic systems
J. Iñiguez	Understanding ferroelectricity and magnetoelectric behavior from first principles
S. W. Cheong	Unconventional approaches to multiferroic materials
M. Kenzelmann	Magnetic field induced ferroelectricity
F. Sánchez	Multiferroic thin films
G. Catalan	Dielectric and ferroelectric characterization
A.L.Kholkin	Atomic probes
T.T.M. Palstra	Beyond oxide-ferroelectrics: new ferroelectric materials
C. Dubourdieu	Oxides on silicon
H. Kohlstedt	Electric properties of metal-insulator interfaces
N. Keller	Magnetooptics: What can be learned of Multiferroics
Brahim DKHIL	Multiferroics: basics and more exotics
J.M. Perez-Mato	Symmetry and Phase transitions in multiferroics

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ESMF2007

ESMF2008

European School on Multiferroics



[HOME](#)

[PROGRAM](#)

[INVITED SPEAKERS](#)

[REGISTRATION](#)

[ORGANISERS](#)

[LOCATION](#)

[CONTACT](#)

[Home](#)

[Abstracts/Posters](#)

[Hotel Reservation](#)

[Contributions](#)

Important:

Assistance is limited to 80 participants

REGISTRATION CLOSED

Dead lines:

- Registration: 15th July 2008 **NEW!!**
- Contribution from speakers: 20th July 2008
- Abstracts for Posters: 20th July 2008

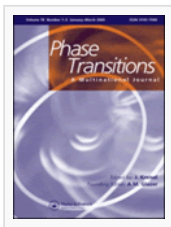
Registration Fee*

Including lecture documents, coffee breaks, lunch & banquet

- Student / Post-doc : 150 €
- Permanent academic staff : 250 €
Industrial : 350 €

*For registration after 1st of June, all fees will be increased by 50€





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Registration:

1st July 2008

Abstracts:

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Contribution from

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[ESMF2007](#)

ESMF2008

European School on Multiferroics

[HOME](#)

[PROGRAM](#)

[INVITED SPEAKERS](#)

[REGISTRATION](#)

[ORGANISERS](#)

[LOCATION](#)

[CONTACT](#)

[Home](#)

[Abstracts/Posters](#)

[Hotel Reservation](#)

[Contributions](#)

Organisers

- **Josep Fontcuberta**
Institut de Ciència de Materials de Barcelona- ICMAB-CSIC
- **Jens Kreisel**
LMGP - CNRS - Grenoble Institute of Technology, France

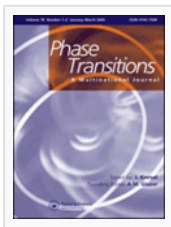


Local Organizing Committee



- **Josep Fontcuberta**
Institut de Ciència de Materials de Barcelona- ICMAB-CSIC
- **L. Fàbrega**
Institut de Ciència de Materials de Barcelona- ICMAB-CSIC
- **F. Sánchez**
Institut de Ciència de Materials de Barcelona- ICMAB-CSIC
- **G. Herranz**
Institut de Ciència de Materials de Barcelona- ICMAB-CSIC
- **X. Martí**
Institut de Ciència de Materials de Barcelona- ICMAB-CSIC
- **N.Dix**
Institut de Ciència de Materials de Barcelona- ICMAB-CSIC
- **J.M. Roque**
Institut de Ciència de Materials de Barcelona- ICMAB-CSIC
- **I. Fina**
Institut de Ciència de Materials de Barcelona- ICMAB-CSIC
- **W. Prellier**
CRISMAT Caen, France, (*MaCoMuFi representative*)





Important Dead Lines

Registration:

1st July 2008

Abstracts:

20th July 2008

Contribution from

speakers:

20th July 2008

ESMF2007

ESMF2008

European School on Multiferroics



HOME

PROGRAM

INVITED SPEAKERS

REGISTRATION

ORGANISERS

LOCATION

CONTACT

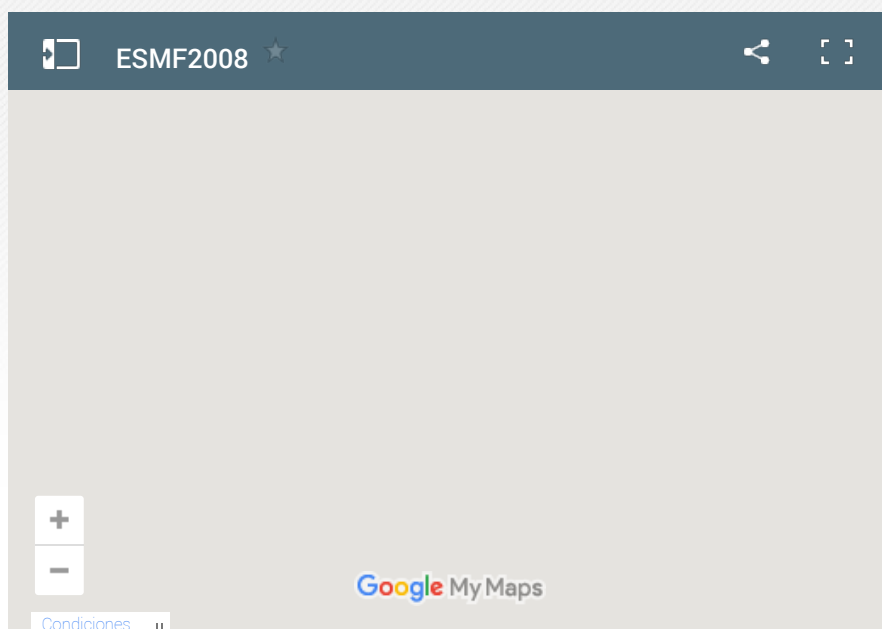
Home

Abstracts/Posters

Hotel Reservation

Contributions

Location



[RESIZE MAP](#)

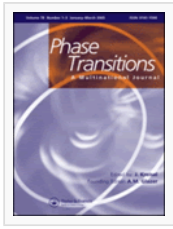
Lectures will take place at Lecture Hall of:

Residencia Universit ria (RESA) Campus de Montilivi

Campus Universitat Girona
C/ Merc  Rodoreda 1 Gurgui, 2
17003 Girona
Catalonia, Spain

- The place is at 10' by bus (Line 2, each 15') from the Girona





Important Dead Lines

Registration:

1st July 2008

Abstracts:

20th July 2008

Contribution from

speakers:

20th July 2008

[ESMF2007](#)

Central Bus and Train Station

- Taxi from the Girona Central Bus and Train Station to RESA (aprox. 6-7 €)

How to get to Girona

By Plane

Girona Airport is located at some 30km from Girona downtown.

- Busses at leave the airport to Girona Central Bus Station , each 60'
- Taxis from Airport to RESA cost aprox. 25€

By Train from Barcelona (Sants Station) (Girona, at 100 km, Nord)

- Frequent **trains**
- Regular Trains take about 1h10' (aprox. 6 €) to reach Girona Central Train Station

Useful link about Girona

- [Girona Tourist Information](#)

ESMF2008

European School on Multiferroics



[HOME](#)

[PROGRAM](#)

[INVITED SPEAKERS](#)

[REGISTRATION](#)

[ORGANISERS](#)

[LOCATION](#)

[CONTACT](#)

[Home](#)

[Abstracts/Posters](#)

[Hotel Reservation](#)

[Contributions](#)

Contact

- [Josep Fontcuberta](#)
- [Lourdes Fàbrega](#)





Important Dead Lines

Registration:

1st July 2008

Abstracts:

20th July 2008

Contribution from

speakers:

20th July 2008

ESMF2007

ESMF2008

European School on Multiferroics



[HOME](#)

[PROGRAM](#)

[INVITED SPEAKERS](#)

[REGISTRATION](#)

[ORGANISERS](#)

[LOCATION](#)

[CONTACT](#)

[Home](#)

[Abstracts/Posters](#)

[Hotel Reservation](#)

[Contributions](#)

Abstracts/Posters

The ESMF is a forum for learning and discussion. A poster session will be allocated for presenting latest results, ideas, etc.

[ABSTRAC TEMPLATE](#)

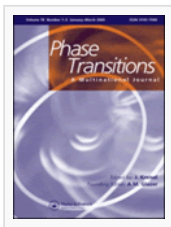
Please submit the **Abstract** of your presentation before the appropriate dead line to this email:

esmf2008@icmab.es

Only one (1) Abstract for Registered participant can be accepted. Due to space and agenda limitations, up to 40 Posters will be selected on the basis of the received Abstracts.

Confirmation of acceptance of the **Abstract for Poster presentation** will be notified by 1st August.





Important Dead Lines

Registration:

1st July 2008

Abstracts:

20th July 2008

Contribution from

speakers:

20th July 2008

ESMF2007

ESMF2008

European School on Multiferroics



[HOME](#)

[PROGRAM](#)

[INVITED SPEAKERS](#)

[REGISTRATION](#)

[ORGANISERS](#)

[LOCATION](#)

[CONTACT](#)

[Home](#)

[Abstracts/Posters](#)

[Hotel Reservation](#)

[Contributions](#)

Hotel Reservation

We have preliminary blocked a number of single and double rooms at the RESA residence for ESMF2008 participants.

Preliminary blocking is cancels at 15th June 2008. So, to guarantee place at RESA please book yourself at RESA before 15th .

Please contact RESA directly to confirm your reservation.

Use attached **form** to make the reservation and send (email or fax) directly to RESA

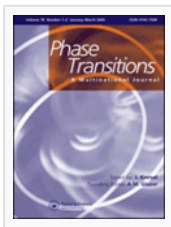
HOTEL BOOKING FORM

Prices at RESA are very convenient:

- Single Room: 33,00 €/night
- Twin Room 25,00€/night person

Many other hotels can be found in downtown Girona, but not in the Campus





Important Dead Lines

Registration:

1st July 2008

Abstracts:

20th July 2008

Contribution from

speakers:

20th July 2008

ESMF2007

ESMF2008

European School on Multiferroics

[HOME](#)[PROGRAM](#)[INVITED SPEAKERS](#)[REGISTRATION](#)[ORGANISERS](#)[LOCATION](#)[CONTACT](#)[Home](#)[Abstracts/Posters](#)[Hotel Reservation](#)[Contributions](#)

Contributions



SESSION O-1	ORAL CONTRIBUTIONS	
18:00-18:15	Temperature dependence of the soft X-ray absorption of monocrystalline YMnO ₃ under magnetic fields	J. C. Cezar, R. A. Souza, M. Zaghrioui
18:15-18:30	Ferromagnetism in epitaxial orthorhombic YMnO ₃ thin films	X. Marti, V. Skumryev, A. Cattoni, R. Bertacco, V. Laukhin, C. Ferrater, M.V. García-Cuenca, M. Varela, F. Sánchez, J. Fontcuberta
18:30-18:45	Magnetic anisotropy in epitaxial La _{0.67} Sr _{0.33} MnO ₃ thin films on NdGaO ₃ substrates with different orientations described by the Néel magnetic anisotropy model	Hans Boschker, Evert Houwman, Mercy Mathews, Hiroaki Nishikawa, Guus Rijnders, Dave Blank
18:45-19:00	Ga ₂ -xFe _x O ₃ : a room temperature multiferroic material ?	M. Trassin, N. Viart, G. Versini, J.-L. Loison, S. Barre, G. Schmerber, C. Mény, G. Pourroy, J.H. Lee, W. Jo

SESSION O-2	ORAL CONTRIBUTIONS	
17:00-17:15	Influence of growth temperature and thickness in columnar BiFeO ₃ -CoFe ₂ O ₄ nanocomposite thin films	N. Dix, R. Muralidharan, J.M. Caicedo, D. Hrabovsky, I. Fina, L. Fàbrega, F. Sánchez, J. Fontcuberta, V. Skumryev, M. Varela, J. Guyonnet, P. Paruch, J.-M. Triscone
17:15-17:30	Strain-induced phase transitions and magnetoelectric properties in quantum paraelectric EuTiO ₃ thin films	V. Goian, S. Kamba, D. Nuzhnyy, V. Bovtun, J.H. Lee, Ch. Kadlec, M. Kempa, D.G. Schlom, E. Santava, M. Orlita and J. Petzelt



17:30-17:45	Temperature-pressure instabilities of the multiferroic BiFeO ₃	R. Haumont, J. Kreisel, B. Dkhil, P. Bouvier, A. Pashkin, S. Kuntscher, I. A. Kornev, S. Lisenkov, L. Bellaiche
17:45-18:00	Magnetolectric Effects In Single- And Double Phase Multiferroics Studied By Optical Second Harmonic Generation	E. Mishina

Important Dead Lines

Registration:

1st July 2008

Abstracts:

20th July 2008

Contribution from speakers:

20th July 2008

ESMF2007

POSTER CONTRIBUTIONS: posters should be on display from Monday 1st to Tuesday 4th		
1	Simultaneous complex permittivity and permeability measurements of multiferroics using coaxial line	S. Greicius, J. Banys, S. Lapinskas, A. Brilingas, R. Grigalaitis, J. Holc, R. Blinc
2	Competition Between Polar Ground State and Octahedral Rotation in Epitaxially Strained LaAlO ₃	A. Hatt and N. Spaldin
3	Effect of Pb and Pb/Ti substitution on the magnetolectric BiFeO ₃	J. Chaigneau, R. Haumont, J.M. Kiat
4	Strain induced ferromagnetism in thin film LaCoO ₃ : a <i>first-principles</i> study	J.M. Rondinelli and N. Spaldin
5	Suppression of orbital order by gallium doping of NdMnO ₃	A.J.C. BURMA, C.V. COLIN, G.R. BLAKE, T.T.M. PALSTRA
6	Epitaxial Ba(Zr,Ti)O ₃ thin films for tunable devices	J. Ventura, C. Ferrater, E. Langenberg, S. Nazarpour, M.V. Garcia-Cuenca, M.C. Polo and M. Varela, I. Fina and L. Fàbrega
7	Metallization and spin transitions in the BiFeO ₃	O. E. Gonzalez, J. Iñiguez
8	E Growth and characterization of BiFeO ₃ based multiferroic heterostructure for electro-optical applications	J. Allibe, E. Jacquet, S. Fusil, K. Bouzehouane, M. Bibes, J.C. Mage, A. Barthélémy.
9	Phenomenological description of electromagnon excitations in modulated multiferroics	A. Cano, E. I. Kats
10	Doping effects on electric and magnetic properties of multiferroic ceramic BiFeO ₃	T. T. Carvalho, P. B. Tavares, S. Vilela, J. Pérez de la Cruz, J. R. A. Fernandes, M. S. Reis
11	Pb(Fe _{1/2} Nb _{1/2})O ₃ and 0.8Pb(Fe _{1/2} Nb _{1/2})O ₃ -0.2Pb(Mg _{1/2} W _{1/2})O ₃ Magnetolectric Relaxor Thin Films	W. Peng, N. Lemée, J-L. Dellis, M. G. Karkut, V. V. Shvartsman, P. Borisov, W. Kleemann, B. Dkhil, J. Holc, M. Kosec, R. Blinc,
12	Structure and magnetic properties of expected multiferroic YCr _{1-x} FexO ₃ (0<x<1)	S. Kovachev, K. Krezhov, D. Kovacheva, S. Aleksovska, E. Svab

13	Magnetic and electronic properties of manganite films tuned by substrate plane orientation	I. C. Infante, G. Herranz, F. Sánchez, J. Fontcuberta, V. Laukhin, M. Wojcik, E. Jedryka, S. Estradé, F. Peiró, J. Arbiol, J. P. Espinós, M. Varela
14	Dielectric properties of BaTiO₃-CoFe₂O₄ nanocomposite thin films	I. Fina , N. Dix, V. Skumryev, L. Fàbrega, F. Sánchez and J. Fontcuberta, V. Skumryev
15	Application of Magnetic Resonance spectroscopies to study multiferroics at atomic and electronic levels	R. M. Kowalczyk, T. Kemp, P. Thomas, R. Dupree, M. Smith, M. E. Newton, R. Edge, D. Collison, E. J. L. McInnes
16	Magnetism in Multiferroic Rare Earth Chromites	H.J. Lewtas, A.T. Boothroyd, S.J. Blundell, D. Prabhakaran, P.J. Baker
17	Growth and properties of a magnetic semiconductor Fe_{2-x}Ti_xO_{3-d} thin films	E. Popova, H. Ndilimabaka, Y. Dumont, N. Keller B. Warot-Fonrose, M. Bibes, K. Bouzheouane, J. Siejka
18	Multiferroic epitaxial multilayers grown by pulsed-laser deposition	I. Vrejoiu, B. I. Birajdar, B. J. Rodriguez, D. Hesse, M. Alexe, M. Ziese