

preliminary
programme



13th International Congress on the Chemistry of Cement

Madrid, 3/8 July 2011



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The 13th International Congress on the Chemistry of Cement (Madrid, 3-8 July 2011)

True to (now centenary) tradition, at this stage the organisers of the 13th ICCC, to be held in Madrid in early July 2011, are fully engrossed in putting together the final details to ensure congress participants an event of high scientific quality as well as an unforgettable stay in Spain's capital city.

Over time, the ICCC has earned a reputation for excellence that is just cause for pride for all the scientists engaging in cement research, because each of us is individually responsible for these collective achievements. The challenge for the Madrid Congress organisers is to maintain or even attempt to improve on the success of previous editions. This is no simple task in light of the impact of today's economic crisis on our initial expectations. Nonetheless, our determination to attain the original objectives is much greater than any circumstantial barrier that we may have to surmount, no matter how high.

As its slogan "Cementing a sustainable future" implies, this 13th ICCC may provide answers to the many economic, environmental and technical uncertainties presently facing the cement industry.

The 460-some research papers received constitute the scientific content for this encounter among scientists and engineers. Taken as a whole, these papers (a complete listing of which can be found on the congress website) cover the many areas into which cement chemistry can be parcelled, areas that were explored by researchers working in 50 countries across five continents. The outcome of this international effort is the high scientific quality of these 460 papers.

As organisers, we in turn are studying the most effective formulas to enable congress participants not only to discuss their research with their colleagues, but to take part in serious scientific debate on subjects of particular interest. To this end, in addition to the more traditional scientific sessions, we are programming panel discussions to encourage both partnering and the exchange of experience. Our objective is to make this a dynamic congress in which scientists' participation is not confined to a mere testimonial presence. Science is creative by definition and scientists' ultimate mission should be to give creativity a chance. A congress of these characteristics (held in the International Year of Chemistry) is an ideal forum for moving toward a convergence of ideas on building a better future for cement and consequently for society at large.

It is now up to us, the 13th ICCC organisers, to make every effort to provide the scientific community with tools for participation, and we're working on just that. But in the final analysis, the decision to participate actively is yours and yours alone.

We look forward to seeing you in Madrid next July.

Ángel Palomo
President, 13th ICCC

AREA 1. Production process chemistry and engineering

- 1 • Clinker formation reactions
- Volatile cycles
- The chemistry of emissions
- Advanced techniques for process control
- New clinker types: chemistry and processing

AREA 2. Sustainable production

- 2 • Use of alternative raw materials and fuels
- Reduction of clinker contents
- Other ways of lowering CO₂ emissions
- Energy balance
- CO₂ capture: physico-chemical treatments
- Life cycles
- Waste re-use

AREA 3. New cementitious matrix

- 3 • Alkali-activated binders (aluminosilicate and calcium silicate systems)
- Other non-Portland cement systems
- Hybrid organic-inorganic binders

AREA 4. Hydration and microstructure

- 4 • Hydration reactions
- Hydrate structure
- Microstructure development
- Modelling
- Toxic and radioactive waste solidification and immobilization

AREA 5. Hydration and thermodynamics

- 5 • Thermodynamics and kinetics

AREA 6. Modelling

- 6 • Ab. Initio. Molecular dynamics, etc...
- Other technics for modelling

AREA 7. Properties of fresh hardened concrete

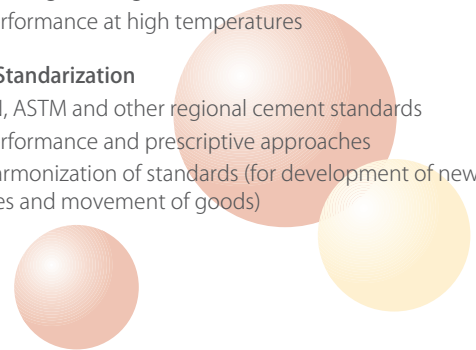
- 7 • Chemical admixtures
- Rheology and workability
- Shrinkage, creep
- Supplementary cementitious materials
- Relationship between microstructure and properties
- Special concretes

AREA 8. Concrete durability

- 8 • Sulphate attack
- Gas and ion transport processes: permeability, diffusion and modelling
- Reinforcement corrosion
- Alkali-aggregate reaction
- Freezing-thawing resistance
- Performance at high temperatures

AREA 9. Standardization

- 9 • EN, ASTM and other regional cement standards
- Performance and prescriptive approaches
- Harmonization of standards (for development of new cement types and movement of goods)



technical sessions

Sunday, 3 rd July			
17:00 - 21:00	Registration		
Monday, 4 th July			
08:00 - 09:00	Registration		
09:00 - 09:30	Opening Session		
09:30 - 10:15	Presentation key note lecture Area 1: Production process		
10:15 - 11:00	Shorts Presentations Area 1		
11:00 - 11:30	Pause coffee and Commercial Exhibition Opening		
11:30 - 12:15	Presentation key note lecture Area 2: Sustainable production		
12:15 - 13:15	Shorts Presentations Area 2		
13:45 - 15:30	Lunch		
15:30 - 17:15	Parallel Session 1 Area 2	Parallel Session 2 Area 2	Parallel Session 1 Area 1
17:20 - 19:00	Parallel Session 3 Area 2	Parallel Session 4 Area 2	Parallel Session 2 Area 1

● Poster: areas 1 and 2

Tuesday, 5 th July			
09:00 - 09:45	Presentation key note lecture Area 4: Hydration microstructure		
09:45 - 10:45	Shorts Presentations Area 4		
10:45 - 11:15	Pause coffee		
11:15 - 12:00	Presentation key note lecture Area 9: Standarization		
12:00 - 13:00	Panel on CO ₂ Emissions		
13:30 - 15:00	Lunch		
15:00 - 16:45	Singular Constructions	Parallel Session 5 Area 2	Parallel Session 1 Area 4
16:50 - 18:30	Parallel Session 2 Area 4	Parallel Session 6 Area 2	Parallel Session 3 Area 4

● Poster: area 4

technical sessions

Wednesday, 6 th July			
09:00 - 09:45		Presentation key note lecture Area 5: Hydration thermodynamics	
09:45 - 10:45		Shorts Presentations Area 5	
10:45 - 11:15	Pause coffee		
11:15 - 12:00		Presentation key note lecture Area 3: New cementitious matrix	
12:00 - 13:00		Shorts Presentations Area 3	
13:30 - 15:00	Lunch		
15:00 - 16:45	Parallel Session 1 Area 3	Parallel Session 4 Area 4	Parallel Session 2 Area 3
16:50 - 18:30	Parallel Session 3 Area 3	Parallel Session 5 Area 4	Parallel Session 4 Area 3

● Poster: areas 3 and 5

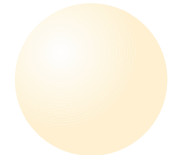
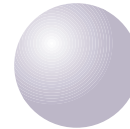
Thursday, 7 th July			
09:00 - 09:45		Presentation key note lecture Area 6: Modelling	
09:45 - 10:30		Shorts Presentations Area 6	
10:30 - 11:00	Pause coffee		
11:00 - 11:45		Presentation key note lecture Area 7: Concrete properties	
11:45 - 12:45		Shorts Presentations Area 7	
13:30 - 15:00	Lunch		
15:00 - 16:00	Panel on Standards	Panel on Difussion of research	Panel on Leaching heavy metals and organics
16:50 - 18:30	Parallel Session 1 Area 7	Parallel Session 2 Area 7	Parallel Session 1 Area 6

● Poster: areas 6 and 7

technical sessions

Friday, 8 th July			
09:00 - 09:45		Presentation key note lecture Area 8: Durability	
09:45 - 10:30		Shorts Presentations Area 8	
10:30 - 11:00	Pause coffee		
11:00 - 12:45	Parallel Session 1 Area 8	Parallel Session 2 Area 8	Parallel Session 3 Area 8
12:50 - 13:40	Parallel Session 4 Area 8	Parallel Session 5 Area 8	Parallel Session 6 Area 8
13:45	Closing Session and Farawell Cocktail		

- Poster: area 8



pre-congress courses

With the aim of complementing the technical sessions of the congress, the following specialization courses have been programmed:

1st July:

- 'Infrared and raman spectroscopy: application to cementitious systems'
- 'Cementitious material hydration'
- 'Advanced powder diffraction in cement chemistry'

2nd July:

- 'Corrosion in reinforcing steel'
- 'Alkali activated aluminosilicate binders'
- 'The use of ecomaterials as supplementary cementitious materials (SCMS)'

3rd July:

- 'Multi-scale Modelling'

For more info on the pre-congress courses programme, how to register and how to take part as sponsor, please, go to Congress website: www.icccmadrid2011.org

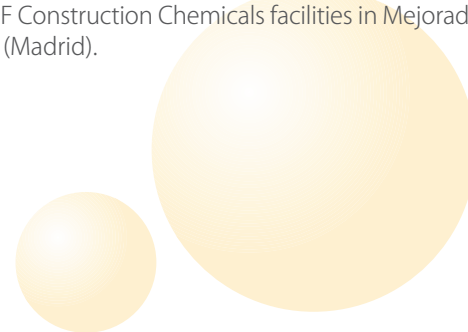
technical visits

There will be opportunities to make technical visits during the Congress.



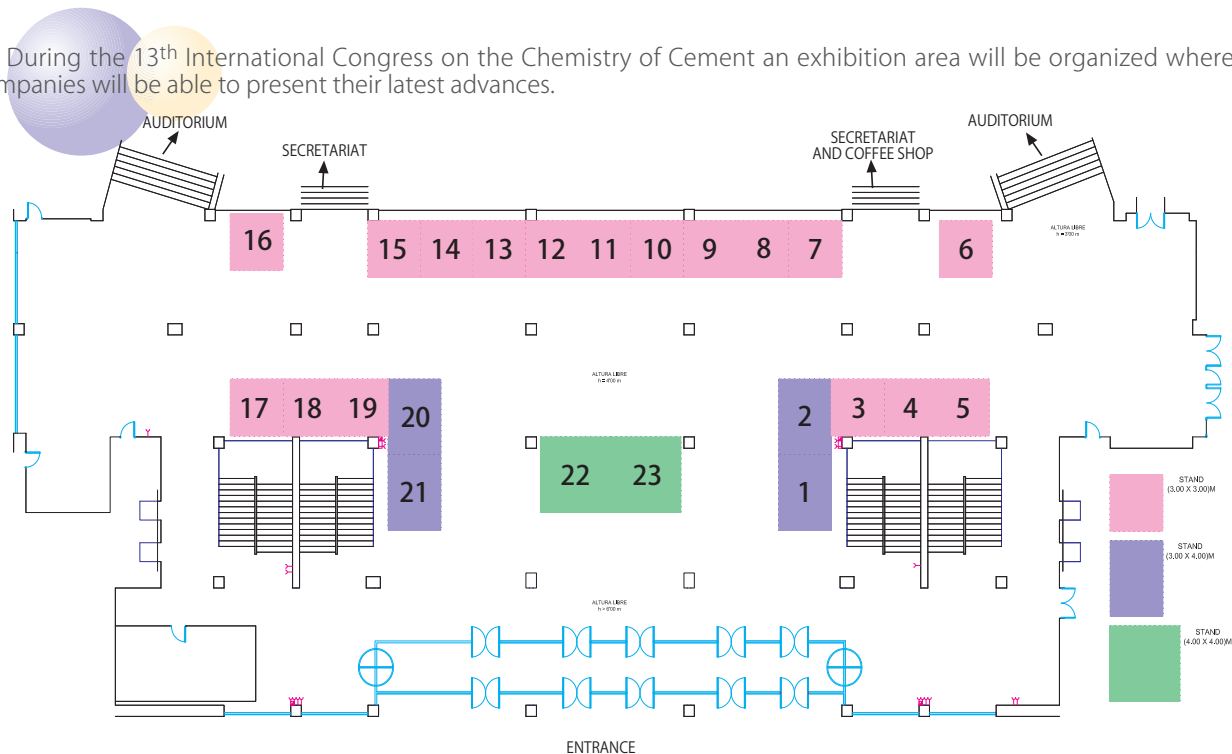
Delegates will be able to visit "El Alto" cement plant. One of the Cementos Portland Valderrivas plants, located in Morata de Tajuña (Madrid).

Moreover, it is programmed a technical visit to the BASF Construction Chemicals facilities in Mejorada del Campo (Madrid).



commercial exhibition

During the 13th International Congress on the Chemistry of Cement an exhibition area will be organized where the companies will be able to present their latest advances.



For information regarding this area, contact:

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Paseo la Habana, 134 - A

28036 Madrid (España)

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E-mail: mportillo@siasa.es

Contact Person: Mercedes del Portillo

Company/Institution

- BASF
- IBERMAPEI
- S.A.E. IBERTEST
- INSTITUTO EDUARDO TORROJA
- PORTLAND VALDERRIVAS
- RIGAKU EUROPE SE
- SIKA S.A.U.
- SCHLEIBINGER GERÄTE TEÜBER u.Greim GmbH

Booth number

- 1
- 20
- 2
- 12
- 23
- 18
- 21
- 6

sponsorship opportunities

The Congress organization has designed some sponsorship opportunities. If you are interested in an active participation and in case that our sponsorship packages items may not suit your current marketing aims, we would be pleased to consider your request individually and attempt to design a package adapted to your requirements.

For information regarding sponsorship and other collaboration ways and organizational questions, contact:

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Contact Person: Mercedes del Portillo

general information

Congress Venue

The 13th Congress on the Chemistry of Cement will be held in the Palacio de Congresos de Madrid, Paseo de la Castellana 99. It is located in the heart of the city, just a few minutes away from Madrid's historic quarter and very closed to the high.speed AVE train stations and the airport. Moreover, near "Nuevos Ministerios" metro station and close to the best restaurants and shopping centres and in front of Real Madrid stadium, the Santiago Bernabeu.

Official Languages

The official languages of the Congress will be Spanish and English. Simultaneous interpretation will be provided throughout the plenary technical sessions.

Congress Secretariat

SIASA CONGRESOS S. A.

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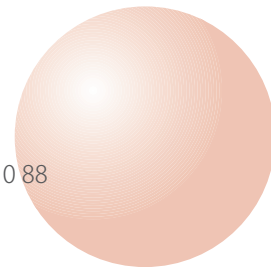
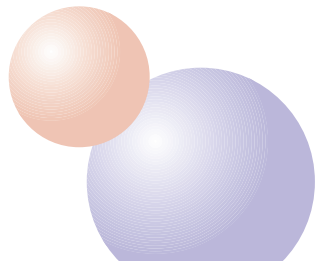
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Contact Person: Sylvia Ureta

Registration:

www.icccmadrid2011.org/uk/datos/registration/pdf/Form.pdf





updated information is available on: www.iccemadrid2011.org

