8th RILEM

INTERNATIONAL SYMPOSIUM ON **FIBRE REINFORCED CONCRETE: CHALLENGES AND OPPORTUNITIES BEFIB 2012**



Hosted by University of Minho and ISISE www.befib2012.civil.uminho.pt













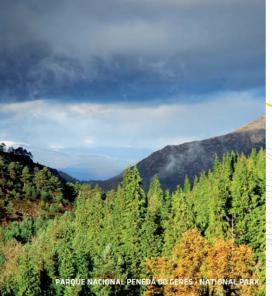


The province of Minho, in the northwest of Portugal, is full of scenic and historical sites, being particularly famous for the production of wine. To the North of the region, it is possible to find the National Park of Peneda-Gerês with its rocky mountains, cascades, lakes and abundant wildlife. To the east, the famous Douro river valley, where the Port wine grapes are grown. To the South, it is possible to find the cosmopolitan city of Porto with its international airport, featuring an impressive architecture in the banks of the Douro River, the famous bridges and the Port wine cellars. The entire region is close to the sea, with marvellous beaches located near small phishing towns. Braga, Guimarães, Viana do Castelo and Vila do Conde are all examples of cities with interesting and well preserved historical centres, multiple cultural activities and summer entertainment. Several outdoor sports like canoeing, rappel, surf, diving, etc. are also common activities.













VENUE

The Conference will be held at Centro Cultural Vila Flor, in Guimarães, Portugal. The city of Guimarães is like no other city in Portugal. Its past is so intimately intertwined with the History of Portugal that it is commonly and proudly referred to as the Cradle of the Nation. The Historic Centre of Guimarães is a wonderful example of the medieval town that developed into a modern city, showing the development of the Portuguese architecture between the XV and the XIX century and the use of traditional construction materials and techniques. Guimarães was declared a World Heritage Site in 2001 by UNESCO, due to its Middle Age historical monuments and was chosen to be the European Capital of Culture in 2012.

REGISTRATION FEES		Full registration fee includes book of proceedings,
		coffee breaks, lunches, reception and conference
Up to February 15, 2012		dinner.
Full Registration	600.00€	The students must send a copy of a valid student
Students	300.00€	card or an institutional certification (MSc and PhD
Accompanying persons	150.00 €	students are valid) together with the registration
		form. Student fee does not include participation
After February 15, 2012		in reception and conference dinner.
Full Registration	750.00 €	Accompanying person's fee includes the
Students	375.00 €	participation in the social program, i.e. reception
Accompanying persons	200.00€	and conference dinner.

ACCOMMODATION

Information related to the Hotels and Pousadas available in Guimarães can be found in www.befib2o12.civil.uminho.pt. Since during 2012 Guimarães is the European Capital of Culture, reservations should be made as soon as possible.

ADDITIONAL INFORMATION

BEFIB2012

University of Minho - Civil Engineering Department - Azurém 4800-058 Guimarães, PORTUGAL

Tel. +351 253 510 218 • Fax. +351 253 510 217

befib2012@civil.uminho.pt • www.befib2012.civil.uminho.pt



MOTIVATION

In spite of more than 30 years of research and application of fibre reinforced concrete (FRC), the potentialities that discrete fibres can provide to cement based materials are not yet well explored. Furthermore, in the recent years new types of fibres, admixtures, and sophisticated numerical tools are potentiating the scientific and rational conception of advanced FRC materials for the development of innovative, sustainable and durable concrete structures. The bridge between research and design needs to be consolidated by the adoption of reliable and well accepted design guidelines. The techniques for the experimental characterization of the FRC properties that are representative of the real behaviour of FRC structures are still a controversial topic. Quality control also needs more clear rules since fibre orientation and distribution, which affect significantly the reinforcing performance of FRC materials, depend considerably of the geometry of the structural element, casting conditions and FRC composition characteristics. In this context, BEFIB2012 has the purpose of being a forum for the discussion of the potentialities and challenges of fibre reinforced concrete.

TOPICS

- Rheology
- Mechanical properties
- Nanofibers in fibre reinforced cement based materials
- Long term properties and durability

- Analytical and numerical models
- Codes and standards
- Innovative structural systems
- Structural and industrial applications
- Case studies

CALL FOR ABSTRACTS

Abstracts limited to 300 words may be submitted by logging on to www.befib2012.civil.uminho.pt. The templates for Abstracts, Extended abstracts and Full Paper are in this website.

IMPORTANT DATES

Deadline for Abstract Submission - April 30, 2011
Approval of Abstracts - June 30, 2011
Submission of Full Papers - November 30, 2011
Approval/Revision of Papers - January 31, 2012
Deadline for Reviewed Version of Full Paper - April 30, 2012
Conference 19-21 September, 2012

Sth

Founded in the year of 1973, the University of Minho (UMinho) welcomed its first students in the academic year of 1975/76. Today, UMinho is recognised for the competence and quality of its academic staff, the excellence of its research activity, its dynamism, its large range of undergraduate and postgraduate degree programmes, its ability for leadership and intervention, and its high degree of interaction with other institutions.

The UMinho considers itself to be a complete university, offering degrees which span from Medicine, Sciences and Technology, to Arts, Humanities and Law.

Located in the North of Portugal, in the province of Minho, the University has two campi, one located in Braga and the other in Guimarães, which are 20 kilometres apart.







Both Braga and Guimarães are historical cities, which offer a thousand-year-old cultural heritage alongside a lively modernity populated by young populations. Braga is a district capital, grown from the ancient roman city of Bracara Augusta. Guimarães, classified by UNESCO as World Heritage site, is known as the "birth place" of the Portuguese nation.





ORGANIZING COMMITTEE

Chairman

Joaquim Barros

University of Minho

Members

Isabel Valente José Sena-Cruz Miguel Azenha Rui Miguel Ferre

Salvador Dias

University of Minho University of Minho University of Minho University of Minho University of Minho

SCIENTIFIC COMMITTEE

Alva Peled Antoine Naaman António Figueiredo Barzin Mobasher Billy Boshoff Bruno Massicotte Bryan Barragán Climent Molins Corina Aldea Dean Forgeron Frank Dehn György L. Balázs Gerhard Vitt Gregor Fisher Gustavo Parra-Montesinos Henrik Stang Hirozo Mihashi Horst Falkner Jakob Sustersic Ian van Mier

Israel
Belgium
USA
Brazil
USA
UK
South Africa
Canada
Italy
Spain
Canada
Canada
Germany
Hungary
Belgium
Italy
Denmark
USA
Denmark
Japan
Germany
Slovenia
Switzerland

lanson Weiss loost Walraven Klaus-Alexander Rieder Liberato Ferrara Lucie Vandewalle Mehmet Ali Tasdemir Nemkumar Banthia Pedro Serna Pierre Rossi P.N. Balaguru P.A. Muhammed Basheer Ravindra Gettu Romildo Toledo Salim K.A. Al-Oraimi Stefan Bernard Surenda Shah Terje Kanstad Venkatesh Kodur Victor C. Li

The Netherlands
Germany
Italy
Belgium
Italy
Turkey
Canada
Spain
France
USA
UK
Argentina
India
Brazil
Oman
Australia
USA
Norway
USA
USA