



University of Ferrara



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European Structural Integrity Society



German Association for Materials Research and Testing e.V.



French Society for Metallurgy and Materials



ASTM International Standards Worldwide



IGF Italian Group of Fracture

Conference Announcement and Call for Papers

CP 2015

Ferrara (Italy), 16 - 18 September, 2015

Website: <http://www.CP2015.unipr.it>

The Fifth International Conference on Crack Paths



Foreword

Crack growth can take place under both static and fatigue loading. The complete solution of a crack growth problem includes the determination of the path taken by the crack. The crack path in critical components or structures where crack propagation occurs (offshore, bridges, etc.) can determine whether failure is benign or catastrophic. Knowledge of potential crack paths is also needed for the selection of appropriate non-destructive testing procedures.

This Conference follows the Conferences in Parma in 2003 and 2006, Vicenza in 2009, and Gaeta in 2012. Special issues of international journals have been devoted to work presented at those Conferences.

Special Issues of International Journals with extended versions of selected papers presented at CP 2015 will be published after the Conference:

Engineering Fracture Mechanics
Special Issue on Crack Paths 2015

International Journal of Fatigue

Special Issue on Fatigue Crack Paths 2015

Scientific Committee

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M.R. Mitchell, Flagstaff	M. Vormwald, Darmstadt

Conference Chairmen

Andrea Carpinteri, Parma

Les P. Pook, Sevenoaks

Luca Susmel, Sheffield

Roberto Tovo, Ferrara

Main Topics of the Conference

Members of different industrial laboratories and scientists from all over the world are invited to contribute with presentations on any of the following topics (in the case of both static and fatigue loading):

Experimental Determination of CP
Theoretical Prediction of CP
Integrity Assessments based on CP Evaluation
Microscopic Aspects of CP
CP of Surface Cracks
CP of Short Cracks
Effect of Large Scale Yielding on CP
Effect of Material Inhomogeneities on CP
Effect of Non-Proportional Cyclic Loading on CP
Effect of Environmental Conditions on CP
CP in Advanced Materials
Laboratory Methods of Controlling CP
In-Service Inspection of CP
Application of CP Concepts and Data in Design
Industrial Application of CP Concepts and Data

Conference Venue

Ferrara is a cosy medium sized city in the north of Italy, situated between Florence and Venice (1 hour by train from both cities), and has good air and rail links. The climate is fine, with a daytime temperature in September of about 25°C. The best known local products are ‘cappellacci’ (hand-made pasta with pumpkin), ‘salama da sugo’ (pork meat with spices), Ferrara’s bread, Pampapato cake.

Lying in the middle of the river Po Valley, Ferrara still has the atmosphere of the past, which blends in harmoniously with the lively atmosphere of the present. In 1995, UNESCO included the historical centre of Ferrara in the list of World Cultural Heritage as a wonderful example of a town planned in the Renaissance, the age of splendour of the Estense Court (Court of the Este family). Famous artists were born in Ferrara or lived there in that period: Garofalo, Guercino, Bastianino (painters), Ludovico Ariosto and Torquato Tasso (writers), Girolamo Frescobaldi (composer and organist).

The Conference venue is in a beautiful location:
Palazzo Tassoni – Via della Ghiara 36

Submission of Papers

Abstract submission (**one A4 page maximum, only in PDF format, size lower than 1 Mb**) to:

Professor Andrea Carpinteri
E-mail: andrea.carpinteri@unipr.it

by 30th November, 2014

The abstract should contain (in English):

- Title of the paper
- Authors (full address of the company , Fax number, e-mail, personal titles of the corresponding author and the co-authors)
- Statement of contents and main points

Deadlines

Abstract submission 30 November, 2014
Abstract acceptance 15 January, 2015
Camera-ready papers 15 March , 2015

All accepted papers will be published in the Proceedings of the CP 2015 Conference.

Local Organising Committee

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Sponsorship

Sponsorship is invited to support this event.
Please contact Professor Roberto Tovo:
Mobile (+39) 329 750 6520
E-mail: tvr@unife.it

Accompanying Exhibition

Companies interested in presenting their products, processes and achievements relating to the subject and in offering personal consultancy will have the opportunity to do so in the exhibition which will be held parallel to the Conference. Please contact Professor Roberto Tovo.