



NTNU, Trondheim, Norway



University of Parma, Italy



Institute of Mechanics CAS,
Beijing, China



European Structural
Integrity Society



German Association for
Materials Research and Testing e.V.



French Society for Metallurgy
and Materials



ASTM
INTERNATIONAL



IGF Italian Group of Fracture

Conference Announcement and Call for Papers

CP 2018

Verona (Italy), 19 - 21 September, 2018

Website: <http://www.CP2018.unipr.it>

The Sixth International Conference on Crack Paths

The Arena (in Bra Square)



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, Gaeta in 2012, and Ferrara in 2015. Special issues of international journals have been published after those Conferences.

Special Issues of International Journals with extended versions of selected papers presented at CP 2018 will be published after the Conference :

Theoretical and Applied Fracture Mechanics

Special Issue on Crack Paths 2018

International Journal of Fatigue

Special Issue on Fatigue Crack Paths 2018

Scientific Committee

J.A. Araujo, Brasilia	M.R. Mitchell, Flagstaff
H. Askes, Sheffield	Y. Murakami, Fukuoka
B. Atzori, Padua	A. Navarro, Seville
F.P. Brennan, Cranfield	T. Palin-Luc, Talence
A. F. Canteli, Oviedo	J. Pokluda, Brno
J.T.P. Castro, Rio de Janeiro	H.A. Richard, Paderborn
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M.N. James, Plymouth	K. Tanaka, Nagoya
A. Kotousov, Adelaide	S. Valente, Turin
D. Kujawski, Kalamazoo	M. Vormwald, Darmstadt
Y. Matvienko, Moscow	

Conference Chairpersons

Filippo Berto, Trondheim, Norway

Andrea Carpinteri, Parma, Italy

Youshi Hong, Beijing, China

Les P. Pook, Sevenoaks, UK

Sabrina Vantadori, Parma, Italy

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
CP in Additive Manufacturing Processes
Industrial Application of CP Concepts and Data

Conference Venue

University of Verona – Faculty of Economics (Polo Santa Marta) - Via Santa Marta 6, Verona, Italy

Verona is a cosy medium sized city on the Adige river in the north of Italy, close to Padua and Venice. It has good air, an international airport and rail links. The climate is fine, with a daytime temperature in September of about 23°C. The best known typical products are ‘polenta’ (corn meal cooked in salted water, to be eaten with beans and games), ‘bolliti e salsa pearà’ (boiled beef and sauce with black pepper), Pandoro cake, white wines like Soave and Custoza Doc (Classic and Recioto), red wines like Bardolino and Valpolicella (Amarone and Recioto).

Lying near lake Garda (about 50 km), Verona still has the atmosphere of the past, which blends in harmoniously with the lively atmosphere of the present. In 2000, UNESCO included Verona in the list of World Cultural Heritage as a wonderful example of a town with Roman ruins, medieval vestiges (for example, from the Della Scala family also known as Scaligeri Seigniory), Venetian and Austrian traces, in its mythical dimension bestowed upon it by the Shakespearean tragedy of ‘Romeo and Juliet’.

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 December, 2017

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 December, 2017
Abstract acceptance 15 January, 2018
Camera-ready papers 15 March , 2018
(each paper: 6 pages)

All accepted papers will be published in the Proceedings of the CP 2018 Conference.

Local Organising Committee

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Sponsorship

Sponsorship is invited to support this event. Please contact Professor Sabrina Vantadori:
Mobile (+39) 349 524 3635
E-mail: sabrina.vantadori@unipr.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 Sabrina Vantadori.