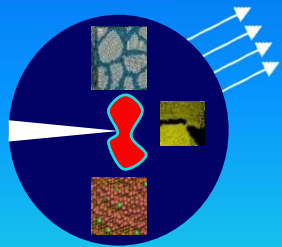


Second Announcement
Call for Papers

20th European Conference on Fracture (ECF20) and Fracture Mechanics Summer School



Fracture at all scales

28th June – 04th July, 2014
Trondheim, Norway

<http://www.ecf20.no>

NTNU
Norwegian University of
Science and Technology

ESIS
EUROPEAN STRUCTURAL INTEGRITY SOCIETY

ECF20, 2014, TRONDHEIM, NORWAY

Scope

In the first week of July 2014, Norway is hosting the Twentieth European Conference on Fracture (ECF20, www.ecf20.no), which belongs to the well-established series of Biennial International Conferences held under the auspices of the European Structural Integrity Society (ESIS). ECF20 will focus on all aspects and scales of fracture and fatigue of engineering materials, components and structures. This ranges from basics to future trends, with special emphasis on multiscale approaches, and applications to energy materials and challenging environments. ECF20 will feature short courses on fracture modeling and assessment two days before the conference and a panel discussion about how to teach fracture mechanics in the future.

Organizer

Chairman:

Prof. Zhiliang Zhang (NTNU)

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Co-Chairmen:

Prof. Bjørn Skallerud (NTNU)

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Prof. Christian Thaulow (NTNU)

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Dr. Erling Østby (DNV)

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Secretary

Assoc. Prof. Jianying He (NTNU)

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Venue

The venue for the conference is the Natural Sciences Building at Gløshaugen campus, Norwegian University of Science and Technology (NTNU), Trondheim.



International Advisory Board

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Yiu-Wing Mai (Australia)	Huang Yuan (Germany)
Gary Marquis (Finland)	Tongyi Zhang (Hong Kong)

Awards

ECF20 confers the following ESIS awards:

- The Griffith Medal
- The Wöhler Medal
- The Award of Merit
- Honorary Membership
- The Young Scientist's Award

For detailed info please refer to the ECF20 web www.ecf20.no.

ECF20, 2014, TRONDHEIM, NORWAY

Tentative plenary speakers

Jacques Besson	Huseyin Sehitoglu
William Curtin	Zhigang Suo
Huajian Gao	Viggo Tvergaard
John Hutchinson	Michael Vormwald
Takayuki Kitamura	Kim Wallin
Alan Needleman	Tongyi Zhang
Robert O. Ritchie	

Key-note speakers

To be presented at ECF20 web www.ecf20.no.

Paper publication

Reviewed and accepted conference papers will be published as one dedicated issue in Elsevier's *Procedia Materials Sciences* and made available in open-access on ScienceDirect.com.

Authors of selected papers will be invited to submit extended versions for publication in peer reviewed special issues of "Engineering Fracture Mechanics", "Engineering Failure Analysis" or "International Journal of Fatigue".

Key dates

Deadline for abstract submission	Oct. 04, 2013
Notification of abstract acceptance	Dec. 07, 2013
Deadline for full paper submission	Jan. 31, 2014

Registration

The registration fee, charged in Norwegian kroner (NOK)

Registration fee	Before March 1, 2014	After March 1, 2014
Ordinary delegate	5200	6000
Student delegate	3200	3800
Accompanying	1500	1800

ESIS members discount 400 NOK

For further info regarding registration and abstract submission, see www.ecf20.no.

Trondheim



Trondheim is the third largest city in Norway with 180,000 inhabitants. Founded by the Viking King Olav Trygvason in 997, the city functions as the administrative center of Sør-Trøndelag county. Trondheim holds a special place in Norwegian history and culture. Today this

Heritage is combined with high academic standards at its university making Trondheim an ideal city for investment, work, research, industry and commerce.

In June/July, the temperature is usually 10 - 20 degrees Celsius. The evenings may be chilly, so bring a warm jacket. The summer climate usually features highs of just above 20°C, although when the sun is at its strongest, temperatures have been known to climb right up to 30°C. At the time of the summer solstice, the days are almost endless and no sooner than the sun has set at midnight, then it is rising again, just three hours later.



More information about Trondheim trondheim.com visit-trondheim.com

Summer School

on Fracture Modeling and Assessment

28th – 29th June, NTNU, Trondheim, Norway

Fracture mechanics is constantly finding new applications, while its importance in traditional fields remains firm. However, utilizing its full potential is becoming increasingly challenging. Although simple textbook presentations of the field are important to present the general ideas, thorough knowledge of the underlying mechanisms and available tools to make advanced analyses are necessary to make the most of the technology and assess the real significance of the results. As a response to this an ECF summer school will be arranged for the first time, with leading scientists presenting different aspects of the field of fracture mechanics. The summer school is mainly aimed at PhD students, young scientists and engineers, but is naturally open to everybody. Participants will become acquainted with general aspects, emerging fields and recent practical applications of fracture mechanics. The program will contain lectures on topics regarding fracture fundamentals / mechanisms and computational fracture mechanics. Also, the emerging field of multiscale modeling of fractures will be addressed. Finally, there will be a comprehensive overview of the state-of-the-art regarding fracture assessment of pipelines.

Date/Time	Topic	Lecturer
2014-06-28 08:30-12:30	Fracture mechanics and mechanisms essentials	André Pineau
2014-06-28 13:15-17:15	Computational fracture mechanics	Wolfgang Brocks
2014-06-29 08:30-12:30	Multi-scale modeling of fracture	William Curtin
2014-06-29 13:15-17:15	Advances in pipeline fracture assessment	Erling Østby
Participation fee 2000 NOK		



The Norwegian University of Science and Technology (NTNU) in Trondheim represents academic eminence in technology and the natural sciences as well as in other academic disciplines. It educates about 80% of all MSc-level engineers in Norway.