

Registration

Registration to be submitted only via web.
Please refer to the conference web site.

Before 1st March 2012 – 250€
After 1st May 2012 – 350€

For East European Country
Before 1st March 2012 – 150€
After 1st May 2012 – 250€

Registration includes 3 days Conference,
one tourist tour (30 May), coffee breaks,
lunches (28,29,30, May), social dinner
(29 May),
conference kit and proceedings.



Rasnov, Castle



Bran, Dracula's Castle



Sinaia, Peles Castle



New Trends
in Fatigue and Fracture

NT2F12

Contacts:

NT2F12@poliba.it

www.dimeg.poliba.it/nt2f12

27-30 May 2012

**Brasov
Romania**



General Information

The *NT2F12* congress, 12th International Conference on New Trends in Fatigue and Fracture, is intended to be a forum to discuss the present trends on fracture mechanics which consider the actual geometry of defects in light of notch fracture mechanics and new approaches based on mesomechanics and incremental plasticity to offer new interpretations of loading mode and geometrical effects on fracture toughness.

Fatigue and fracture of innovative metallic materials such as titanium alloys, as well as studies on nano, composite and biomaterials certainly represent a challenge for the scientific community because of the variety of possible new research topics that could be developed.

In this sense, *NT2F12* Conference will be also an excellent place for reviewing critically design codes in view of the increasing complexity of the engineering scenarios.

ORGANIZING COMMITTEE

Carmine Pappalettere - *Politecnico di Bari, Italy*
Sorin Vlase - *Universitatea Transilvania din Braşov, Romania*
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TOPICS

Stress and strain analysis

- experimental methods
- numerical analysis

Materials

- metallic materials, titanium alloys
- sintered materials
- plastics and composites
- biomaterials
- nano-materials

Structure

- failure assessment
- reliability and safety factors
- environmental effect
- hydrogen embrittlement
- welded joints behaviour
- design codes and directives

Defects assessment

- at macro, meso, micro and nano level
- size and location determination
- non destructive testing

All instruction about submission, registration and accommodation can be found on conference web site:
<http://www.dimeg.poliba.it/nt2f12>

ABSTRACT SUBMISSION GUIDELINE

Authors are requested to electronically submit a one page abstract of the paper by **28 February 2012** following instructions on website. Only electronic submissions will be accepted: please do not fax, do not send duplicate submissions.

All files must be sent to NT2F12@poliba.it.

The authors will be notified by **15th March 2012** about the acceptance or rejection of their papers and posters.

Final manuscripts are due by **30st April 2012**.

English is the official language of the Conference.