Second International Workshop on Fracture Mechanics
"Reliability and Safety of Materials and Structures"

FRACT'2
Chlef 23-24-25 November 2013, Algeria.
CALL FOR PAPERS OBJECTIVES

Pipelines are becoming increasingly important for the transport of large volumes of water, gas or oil over long distances. If well constructed, carefully monitored and properly maintained, pipelines constitute safe and environmentally/economically solutions to transport problems; otherwise they can pose serious threats to our health and environment.

Assurance of pipeline integrity is a growing and challenging problem for companies because pipelines are aging while awareness of the need for environmental protection is increasing. Avoidance of weld and other defects during construction is essential. In service, corrosion is one of the most dangerous damage mechanisms for pipes, along with external interference (dents and gouges), stress corrosion cracking, and fatigue.

Defects can be assessed by Fracture Mechanics or Limit Analysis, and knowledge in both disciplines has increased rapidly in the second half of the past century. Critical assessment of defects has become a highly sophisticated discipline complicated by an increasing complexity of parameters being taken into account.

The Algerian Laboratory for Theoretical Physics and Materials Physics, LPTPM invites engineers, scientists from industry, research centers and universities to the 2nd International Second International Workshop on Fracture Mechanics, FRACT’2.

The FRAC'T2 conferences will to be held in Chlef (Algeria) on November 23-24-25, 2013 under the direction of Dr. Mohammed Hadj Meliani University Hassiba benbouali of Chlef (Algeria) and Professor Guy Pluvinage Paul Verlaine University of Metz, France.

More than 20 submitted Plenary contributions from 24 nations worldwide have been arranged in four Topics creating thereby an international knowledge transfer platform linking latest basic research insights with engineering application.
CHLEF CITY

Chlef, the capital of Chlef Province, is located in the north of Algeria 200 kilometres west of the capital Algiers. It is home to the Hassiba Ben Bouali university, and the basilica of Saint Reparatus, which is home to the oldest Christian labyrinth in the world and the site of the Roman citadel, Castellum Tingitanum, was known as Al-Asnam (Arabic for "sculptures") for an area of 600 by 300 metres (2,000 by 980 feet) containing many statues.

During the Roman times, the Chlef Province of Algeria was named Castellum Tingitanum. For the French, the old Roman site was the ideal location to construct a military outpost in 1843, which they named Orleansville. It was also the reason that one of the oldest churches in Africa came to be located here. No-one could predict that in 1954, the first earthquake would strike Orleansville, and that it was only a taste of what was to come. Together with celebrating the independence of Algeria in 1964, the city also celebrated the birth of a new name - El Asnam.

In 1980 disaster struck again, with a 8 earthquake hitting the city and surrounding areas, in which half the city was destroyed and approximately five thousand locals lost their lives. To distance the city and the province from this unthinkable tragedy, it was renamed for a last time to Chlef in 1981.

Today, visitors will still be able to visit what remains of the Castellum Tingitanum (Roman citadel), referred to as Al Asnam. It is a fascinating site as it contains a staggering number of statues. It is also home to the world’s most ancient Christian labyrinths, Saint Reparatus. But mostly, visitors will see endless agricultural landscapes which include dairy farms, fruit orchards and fields filled with barley and wheat. The city is also known for its processing facilities and leather products. Chlef is easy to find and travel to, as it is a vital point on both the rail and road routes that run between Oran and Algiers.
WORKSHOP TOPICS

The conference covers all investigations on fracture and fatigue of engineering materials and structures, especially the following items:

TOPOGS
The conference covers all investigations on fracture and fatigue of engineering materials and structures, especially the following items:

A. Multi-scale Models and Criteria
- nano, micro, meso and macro levels,
- experimental methods and numerical modeling,
- multiaxial/mixed mode fracture and fatigue,
- transferability of models and criteria.

B. Characterization of Crack/Notch Tip Stress Fields
- experimental technique,
- numerical modeling,
- constraint and effect of non-singular terms,
- mixed mode fracture and fatigue.

C. Structural Integrity and Engineering Safety
- structural integrity assessment,
- reliability and risk analysis,
- non-destructive evaluation of structural components,
- structural materials ageing,
- environmental and hydrogen embitterment effect,
- residual stresses.

D. Fracture Mechanics and Fatigue in Design and Technology
- codes and standards,
- lifetime extension,
- application in geomechanics and geotechnology.

GUIDELINES FOR PARTICIPANTS

1. Abstract Submission

Abstracts should be prepared according to the instructions given below (See Abstract Template).

Maximum length of the abstract is an equivalent of A4 page, including title, authors’ names and affiliations. Main Title should be in Capital letter, Times New Roman, bold, font size 12 pt and centered. Underneath the title comes the author’s name (s) in Times New Roman, bold, font size 11 pt and centered (the Name of the presenting author should be the first and underlined). Complete affiliation and mailing/postal address of the authors as well as the email address of the presenting author should be mentioned (Times New Roman, font size 10 pt and italic and centered).

Abstract text should be in Times New Roman font size 10 pt, single line spacing and justified. Leave uniform margins of 2.5 cm all around the standard page.

Please choose your topic carefully and rename your abstract word file with your family name followed by the appropriate topic order number and presentation preference (i.e.: M. HadjiMeliani-D-Oral.doc).
Abstract submission Deadline June 30th, 2013

Participants, who would like to make an oral or poster presentation at the FRACT’2 must submit an abstract for the consideration and approval of the Program Committee.

All abstracts must be written in English and submitted by e-mail, in format WORD.

To submit an abstract The name of the presenting author must appear first in the list of authors. No one may be the first author on more than ONE contribution.

The presenting author (= first author) must register and pay the registration fee.

The Invited Speakers are permitted to submit a poster presentation in addition to their talk. Please note that abstracts must be submitted according to the instructions below and should be received by June 30th, 2013.

The instructions for the preparation of the abstracts are giving below. The presenting author is required to ensure that all co-authors are aware of the contents of the abstract before submission.

Acceptance letter will be communicated to the presenting author after the decision has been made by the program committee by July 30, 2013.

2. Paper presentation

Paper presentation at the to the 2nd International Second Workshop on FRACTURE MECHANICS FRACT’2 on November 23-25, 2013 will be either oral or by poster. Oral sessions will consist of plenary, semi-plenary talks and oral contributions. The plenary talks are of 45mn (40mn talk and 5mn discussion), the semi-plenary talks are of 30mn (25mn talk and 5mn discussion) and the oral contributions are of 15mn (12mn talk and 3mn discussion). The dimensions of the posters must be of A0 format (120cm x 80cm).

3. Proceedings

Selected papers presented at FRACT’2 will be compiled and published in a book edited by Springer. All information’s in the updated web very soon.

A paper must be presented in the conference either in oral or poster form to warrant consideration for publication in the proceedings. The presence of the competent author in the poster session will be confirmed by the chairperson(s) of the session.

All submitted papers will be peer-reviewed. Reviews will be conducted by expert referees at professional level. Further information on the length of the submitted paper (invited or contributed papers) will be given to the authors and put on the web site of the Conference shortly.

The papers must be written in English language in format “WORD” (See PaperTemplate).
The publication charges are included in the registration fees (only one paper per registered participant). The dead line for paper submission is September, 15th 2013

4. Registration information

All accepted paper must complete and submit registration form by e-mail, in format WORD (See Registration Form).

Registration Fees are payable in advance of the conference, includes: Access to conference sessions and poster areas; Abstract book available at the conference and conference documentation; Mid-session refreshments as scheduled in the conference program lunch, dinner and hotel:
5. Language

The Official language of the International Workshop FRACT’2 23-25 November 2013 is English. All the invited talks, oral and poster contributions must be done in English. All the submitted papers for publication must be written in English.

6. Important Dates

- First call for papers: May 8th, 2013
- Submission Abstract Due: June 30th, 2013
- Notification to authors: July 30th, 2013
- Submission final Paper: September, 15th 2013
- Workshop Date: November 23-24-25th, 2013

COMMITTEES

HONORARY CHAIR

Prof. Mustapha BESEDIK, Rector of Hassiba benbouali of Chlef
Prof. SAADI, Doyen of the Faculty of Science, Chlef
Prof. Mohamed BENAROUS, Head of the LPTPM, Chlef

ORGANIZING COMMITTEE

Presidents

A. Khelil, Mechanics Department, Chlef University
A. Hocine, Mechanics Department, Chlef University
M. M. Benziane, Mechanics Department, Chlef University

Co-Presidents and Secretary

M. Ouagued, LPTPM, Chlef University
C. Fares, LPTPM, Chlef University.

Members

H. Khalfoun          Chlef          K. Elmiloudi          Chlef
A. Khadraoui         Univ. Khemis      A. Alibenamara        Chlef
A. Omsalem           Chlef          A. Belalia           Chlef
M. Kandoussi         Chlef          B. Hebbal            Chlef
M. Sadou             Chlef          K. Bentouta          Chlef
A. Kadoune           Chlef          S. Bourahla          Chlef
S. Neched            EM. Algeries  
SCIENTIFIC COMMITTEE

Presidents

Pr. G. Pluvinage, LaBPS-ENIM, Metz, France.
Dr. M. Hadj Meliani, LPTPM, FT, Chlef University

Members

Pr. L. Loukarfi  Uni. Chlef, Algeria  Pr. M. Tahar Abbes  Chlef
Pr. J. Toribio  Spain  Pr. N. Merah  KSA
Pr. Z. Azari  France  Pr. G. Pluvinage  ENIM, France
Pr. T. Boukharouba  USTHB, Algeria  Pr. K. Azouaoui  UHBST, Algeria
Pr. K. Chaoui  UBM, Algeria  Pr. Y. Matvienko  Russia
Pr. Tamine  USTOran, Algeria  Pr. M. Benghediab  UDL, Algeria
Dr. R. Mazouzi  U. khemis, Algeria  U. khemis, Algeria
Dr. A. Elazzizi  USTOran, Algeria  Dr. B. Chetti  Setif, Algeria
Dr. Abdelmoumen  Ombouaghi, Algeria  Dr. B. Keskes  Algeria

KEYNOTE SPEAKERS

Dr. Mohammed HADJ MELIANI  University of Hassiba Ben Bouali  Chief, Algéria
Prof. Kamel CHAOUI  LR3MI, Université Badji Mokhtar  Annaba, Algeria
Prof. Nenad GUBELJAK  University of Maribor  Maribor, Slovénie
Prof. Madjid Ayatollahi  Université des Sciences et technologie Téhéran  Tehran, Iran
Prof. Jesus TORIBIO  Department of Materials Engineering, University of Salamanca E. P. S  Zamora, Espagne
Prof. Guy PLUVINAGE  LaBPS-ENIM- Metz University  Metz, France
Prof. Laziz TOTH  Bay Zoltan Institute  Hungary
Prof. Yury MATVIENKO  Department of Strength, Survivability and Safety  Moscow, Russia
Prof. Abdrezek ELHOUD  Libyan petroleum institute  Tripoli-Libya
Prof. Nesar AMMAR MERAH  Mechanical Engineering Department  Dhahran, Saudi Arabia
Prof. Raouf FATHALLAH  Ecole Nationale d’Ingénieurs de Sousse,  Sousse, Tunisie
Prof. Chokri BOURAOUI  Ecole nationale d’ingénieurs de Monastir  Monastir, Tunisie
Prof. Francis COLLOMBET  Institut Clément Ader (ICA)  Toulouse, France
Prof. Lisha SHIHJ  Department of Engineering Mechanics  Beijing, China

CONTACT

E-Mail: fract2_chlef_univ@yahoo.fr
https://www.Univ-chlef.dz/lptpm
https://www.facebook.com/uhbc.dz
Tél: (+213) 27 72 17 94
Mobile: (+213) 79 120 567
Fax: +213 27 72 17 94