



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"Jnana Sangama", Belagavi - 590 018, Karnataka State, INDIA

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Dr. Satish Annigeri
Registrar In-Charge

Ref. No.: VTU/PS/2019-20/ 939

Date: 14 MAY 2019

CALL FOR PAPERS

"FATIGUE DURABILITY INDIA 2019"

3rd International conference & Exhibition on Fatigue, Durability & Fracture Mechanics

The Institute of Structural Integrity and Failure Studies [ISIFS], Visvesvaraya Technological University (VTU) and DHIO Research are jointly organizing the 3rd International Conference on Fatigue, Durability and Fracture Mechanics & Symposium Condition Assessment / Residual Life Assessment & Extension during 29-31st August 2019 at "Jnana Sangam", VTU Belagavi, Karnataka, India.

Fatigue Durability India 2019 - International Conference & Exhibition brings industrial experts and academicians to a single platform & facilitate the exchange of ideas and advancements in the field of fatigue, durability, fracture mechanical failure and its applications. The exhibition showcases the technological advancements and case studies with advanced components.

The Conference focuses on covering wide spectrum of topics right from design, engineering, testing and computational evaluation of the component / system for fatigue, durability and the fracture mechanics aspects. Eminent experts will be a part of the panel discussion to address various queries or questions from the participants end.

This conference is unique in nature and brings rich research opportunities in interdisciplinary areas like Product Design & Development, Manufacturing, Material Science – Testing & Characterisation, Metallurgy, Testing, Engineering Simulation, Failure and Reliability Studies. This represents a complete design, development and implementation of Product Life Cycle. There are 15+ Keynote sessions, Invited papers and Workshops to capture wide spread area of the conference theme. Eminent experts and related technical community will provide a unique opportunity for the Faculties and students to interact, share knowledge and also get exposure to Industrial practical and Research Opportunities.

For any queries contact the Coordinators Shri.Guruprasad, Mob.No:9738262440, e-mail:guruprasad@fatiguedurability.com and Shri.Santhosh N. L., Mob.No: 9900138009, e-mail: nls@fatiguedurability.com and for more details you may visit www.2019.fatiguedurability.com. Topics list is attached along with this letter.

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Hence, you are hereby requested to bring this to the notice of all the concerned faculty, research scholars and students of your college and encourage them to make use of this opportunity to interact with the experts in the field, network with the people working in the similar area and share the knowledge and to submit the abstract related to Fatigue, Durability and Fracture Mechanics.

Encl: As above

By Order,

I/c Registrar

To,

- 1) The Principals of all the affiliated / constituent/ autonomous engineering colleges of VTU.
- 2) The PG Coordinator, Centre for PG Studies Muddenahalli, Belagavi, Kalaburagi & Mysuru.

Copy to:

- 1) The Regional Directors(I/c), VTU Regional Centres at Bengaluru, Belagavi, Kalaburgi and Mysuru for information.
- 2) The Secretary to VC, VTU, Belagavi.

FatigueDurability India 2019 invites technical papers from all Academicians/ individuals/companies associated with engineering design, analysis, testing, instrumentation, research on Fatigue Durability & Fracture Mechanics or related technologies

The Authors are encouraged to submit paper on the following themes, **but not limited to**

- New Developments in – Fatigue, Durability and Fracture Studies

- Life Prediction Methodologies for New Materials

- o Metals and Alloys
- o Composite
- o Engineering Materials
- o Polymers / Rubber Durability
- o Ceramics
- o Concrete / Civil Application Materials
- o Electrical/Electronic Application Materials
- o Others

- Fatigue, Fracture Evaluations under

- o Thermo-Mechanical Environment
- o Creep and Creep Fatigue Interaction
- o Manufacturing Process Influence on Fatigue Life / Fracture
- o Weld Fatigue
- o Vibrational loads and fatigue life calculations

- Multi-Scale Fatigue and Fracture Modeling

- o Molecular Dynamics
- o Crack Initiation
- o Crack Growth
- o Failure Assessment
- o Damage Mechanics

- Role of Loading in Fatigue and Fracture Evaluation

- o Axial
- o Biaxial
- o Shear
- o Multi-axial
- o Cyclic
- o Combined Loads (Time, Temperature Dependent)
- o Fatigue Amplitude Loads, Mixed Mode

- Stress – Strain Relationship in Fatigue or Fracture Prediction

- o Experimental
- o Computational

- Fatigue / Fracture Evaluation Approach's

- o Analytical
- o Experimental
- o Computational
- o Correlation of Experimental – Computational Techniques

- Fatigue, Fracture Testing / Material Testing

- o Material Property Development /Characterisation
- o Fatigue Curves
- o Fracture Strength of Material

- Residual Life Assessment and Extension Strategies

- o Residual Life / Remaining Life Prediction
- o Extension Techniques
- o Damage Tolerance Procedures
- o Probabilistic Damage Mechanics

- Stress Intensity Factors & Crack Growth Evaluation

- o Methodology to predict SIF, Crack Length, Crack Size, Crack Stability, Crack Direction, Non-Planar Crack Growth
- o Fatigue Life Evaluations

- Mean Time Between Failure (MTBF)

- Fatigue, Fracture, Reliability of Structures

- Airworthiness and Evaluation against the Standards

- New Technology Development in

- o Material Testing Procedures, Equipment or Accessories
- o Computational Software
- o Life Prediction Methodologies
- o Certifying Standards

Submit your abstract today !

Abstracts : before 30th June 2019
to abstract@fatiguedurability.com

Papers : before 10th August 2019
to papers@fatiguedurability.com

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