

Benefits

Owners and industry leaders will develop an understanding of recent problems and state-of-the-art solutions to assess remaining life, help extend the service life and improve the safety of their structures.

Experienced practicing design and maintenance inspection engineers will leave with an understanding of the most up-to-date methods to successfully approach fatigue and fracture related issues in new and existing structures.

Young engineers will develop an understanding of past problems, present solutions and innovative approaches to future problem solving. The conference will also create a network of peers to promote knowledge sharing.

Researchers will share their most recent findings, assist in identifying additional research needs, and develop the environment for continuing collaborations.

This Conference will be an excellent opportunity for students to meet various industry, research, and government professionals who are seeking experienced and talented undergraduate and graduate students in the Structural Engineering field.

Objective

To bring together the experts in the field of fatigue and fracture of the civil infrastructure. Owners, engineers, researchers, and industry leaders will present and discuss recent experiences, effective retrofit strategies, new material applications, monitoring, evaluation and maintenance approaches, and educational issues and needs. Key components of the civil infrastructure - highway and railroad bridges, sign supports, luminaries, and transmission towers – will be discussed.

Preliminary Program	
Sunday, July 26, 2009	
Tour Event - ATLSS Research Center	
Registration	
Basics Seminar	
Monday, July 27, 2009	
Registration	
Welcome and Introduction - Keynote	
Complimentary Lunch	
Research	Practice
Coffee Break	
Research	Practice
Stump the Panel	
Reception	
Tuesday, July 28, 2009	
Registration	
Complimentary Continental Breakfast	
Research	Practice
Coffee Break	
Research	Practice
Complimentary Lunch - Speaker	
Research	Practice
Coffee Break	
DOT Session	
Stump the Panel	
DOT Problems & Solutions	
Wednesday, July 29, 2009	
Registration	
Complimentary Continental Breakfast	
Research	Practice
Coffee Break	
Research	Practice
Adjourn	
Seminar 1	Seminar 2

FATIGUE FRACTURE 2009

SECOND INTERNATIONAL
CONFERENCE ON

Fatigue and Fracture in the Infrastructure

BRIDGES AND STRUCTURES OF THE
21ST CENTURY

Loews Hotel - Philadelphia,
Pennsylvania
July 26 - 29, 2009



Co-sponsored by:



Sponsored By:
Lehigh University
ATLSS Engineering Research Center

Introduction

The Organizing Committee is pleased to announce the Second International Conference on Fatigue and Fracture in the Infrastructure - Bridges and Structures of the 21st Century.

“Our Aging Infrastructure -
Be Part Of The Solution”

Call for Papers

All areas of bridge fatigue and fracture issues including the following topics will be considered appropriate submissions:

- Enhancement in fatigue strength
- Damage assessment and life prediction
- Results of recent full-scale testing programs
- Field instrumentation and monitoring evaluations
- Detailed case studies of failures and lessons learned
- Retrofit strategies: Effective and ineffective approaches
- Material issues: Traditional and new high-performance materials
- Application of fracture mechanics in design and evaluations
- Finite element analysis in fatigue & fracture evaluations
- Inspection Technologies and the application of NDT in fatigue & fracture evaluations

Abstract Submission

Authors are required to submit an abstract in English that is up to 300 words in length. File formats for abstracts are restricted to the Microsoft Word (.DOC) file format and must be electronically submitted through the Conference web site at <http://ffconf.atlss.lehigh.edu> by clicking on the “Call for Papers” link. The deadline to submit an abstract is **June 1, 2008**.

Students are especially encouraged to submit abstracts and will be considered to receive a travel scholarship to be awarded after review by the committee.

The abstracts shall be submitted electronically through the website:
<http://ffconf.atlss.lehigh.edu>

Conference Chairs

John W. Fisher, Lehigh University
Honorary Chairman

Myint Lwin, Federal Highway Administration
Government Chair

Manfred Hirt, Professor Emeritus, EPFL
European Chair

Karl H. Frank, University of Texas
American Academia Chair

Kentaro Yamada, Nagoya University
Asian Academia Chair

Ed Zhou, URS Corporation
Industry Chair

Publications

A CD-ROM containing the full papers to be presented at the Conference will be provided for all delegates and included in the registration fee. Selected peer reviewed papers will be included in a Special Edition of an appropriate technical journal.

For general information, please contact
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610-758-6842 Fax

Important Dates

Abstracts Due

1 August 2008

Abstract Acceptance

31 August 2008

Full Papers Due

31 January 2009

Full Papers Acceptance

31 March 2009

Committees

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Chad Kusko
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Dan Frangopol
Alan Pense
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Richard Sause
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