



TCN CAE 2008

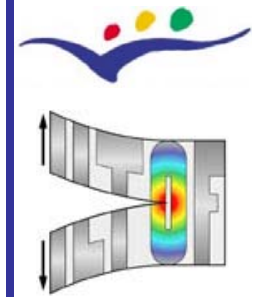
International Conference on  
Simulation Based Engineering and Sciences

Venice – Italy – 16–17th October 2008

# The ILTOF project: outcomes and future perspectives

Marco Paggi

Politecnico di Torino - ILTOF Scientific Secretary

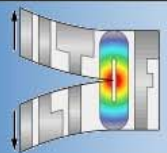
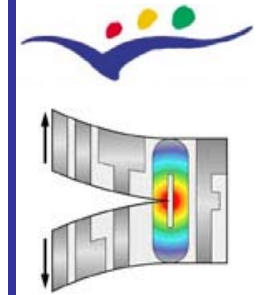


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# ILTOF web-site [www.iltof.org](http://www.iltof.org)



ILTOF

[edit primary links](#)

## ILTOF project

- [home](#)
- [introduction](#)
- [partnership](#)
- [people](#)
- [documents](#)
- [closing conference](#)

## ILTOF resources

- [ILTOF survey](#)
- [e-courses](#)
- [library](#)
- [links](#)
- [fracture mechanics](#)
- [people](#)
- [other initiatives](#)

## ILTOF - Innovative Learning and Training On Fracture

Submitted by [gborzi](#) on Tue, 2006-11-14 16:41.

Welcome to ILTOF - Innovative Learning and Training On Fracture

Please register to gain full access to the ILTOF resources and to add new content to the website.

[Click here to download the project leaflet.](#)

 [Which course is right for you?](#)

 19 september 2008, in evidence: [E-course "Application of fracture mechanics, fatigue and creep principles to avoid or predict failure in engineering problems" released](#)

 9 september 2008, in evidence: [E-course "Statistical methods in fatigue testing" released](#)

 7 july 2008, in evidence: [E-course "Miscellanea" released](#)

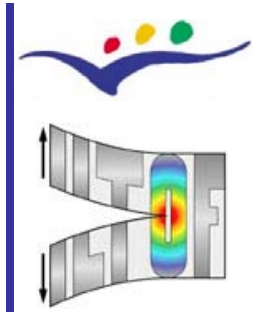
 27 june 2008, in evidence: [E-course "Advanced applications of nonlinear crack models" released](#)

 18 june 2008, in evidence: [E-course "Fundamentals in linear elastic fracture mechanics" released](#)

 17 march 2008, in evidence: [First ILTOF e-course "Fracture mechanics and complexity sciences" released](#)



ILTOF web-site [www.iltof.org](http://www.iltof.org)

The screenshot shows the top part of the ILTOF website. The header has a blue background with the ILTOF logo on the left and the text 'ILTOF' on the right. Below the header is a navigation menu with two sections: 'ILTOF project' and 'ILTOF resources'. The main content area features a blue banner with the text 'ILTOF - Innovative Learning and Training On Fracture' and a submission date. Below this is a welcome message and a link to download a project leaflet. A list of news items follows, each starting with a 'NEW' star icon and a date, followed by a brief description of an e-course.

ILTOF

ILTOF project

- home
- introduction
- partnership
- people
- documents
- closing conference

ILTOF resources

- ILTOF survey
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**ILTOF - Innovative Learning and Training On Fracture**  
Submitted by **gborzi** on Tue, 2006-11-14 16:41.  
Welcome to ILTOF - Innovative Learning and Training On Fracture  
Please register to gain full access to the ILTOF resources and to  
[Click here to download the project leaflet.](#)

**NEW** Which course is right for you?  
**NEW** 19 september 2008, in evidence: **E-course "Application of fracture mechanics to predict failure in engineering problems"** released  
**NEW** 9 september 2008, in evidence: **E-course "Statistical methods in fracture mechanics"** released  
**NEW** 7 july 2008, in evidence: **E-course "Miscellanea"** released  
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**NEW** 18 june 2008, in evidence: **E-course "Fundamentals in fracture mechanics"** released  
**NEW** 17 march 2008, in evidence: **First ILTOF e-course "Fracture mechanics"** released

This block provides a magnified view of the navigation menus from the screenshot. It shows the 'ILTOF project' menu with items: home, introduction, partnership, people, documents, closing conference. Below it is the 'ILTOF resources' menu with items: ILTOF survey, e-courses, library, links, fracture mechanics, people, other initiatives.

ILTOF project

- home
- introduction
- partnership
- people
- documents
- closing conference

ILTOF resources

- ILTOF survey
- e-courses
- library
- links
- fracture mechanics
- people
- other initiatives

This block provides a magnified view of the main content area from the screenshot. It shows the text 'principles to avoid or' and 'released' at the bottom right.

principles to avoid or

released





[Home](#)

## Links

[view](#)

[edit](#)

[grant](#)

Submitted by [iltofadmin](#) on Thu, 2007-12-27 14:05.

Associations and workgroups:

ESIS - European Structural Integrity Society [www.esisweb.org](http://www.esisweb.org)

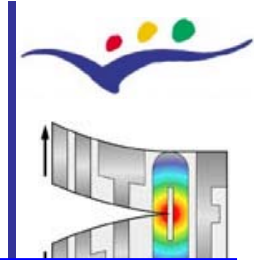
Grupo Español de Fractura [www.gef.es](http://www.gef.es)

Gruppo Italiano Frattura [www.gruppofrattura.it](http://www.gruppofrattura.it)

Cornell Fracture Group [www.cfg.cornell.edu](http://www.cfg.cornell.edu)

Other resources:

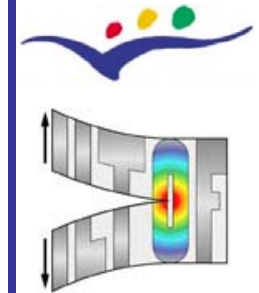
[Proceedings of ICF XI - 11th International Conference on Fracture](#)



From the beginning of the Project: **7,995 unique visitors**  
**1,572 returning visitors**

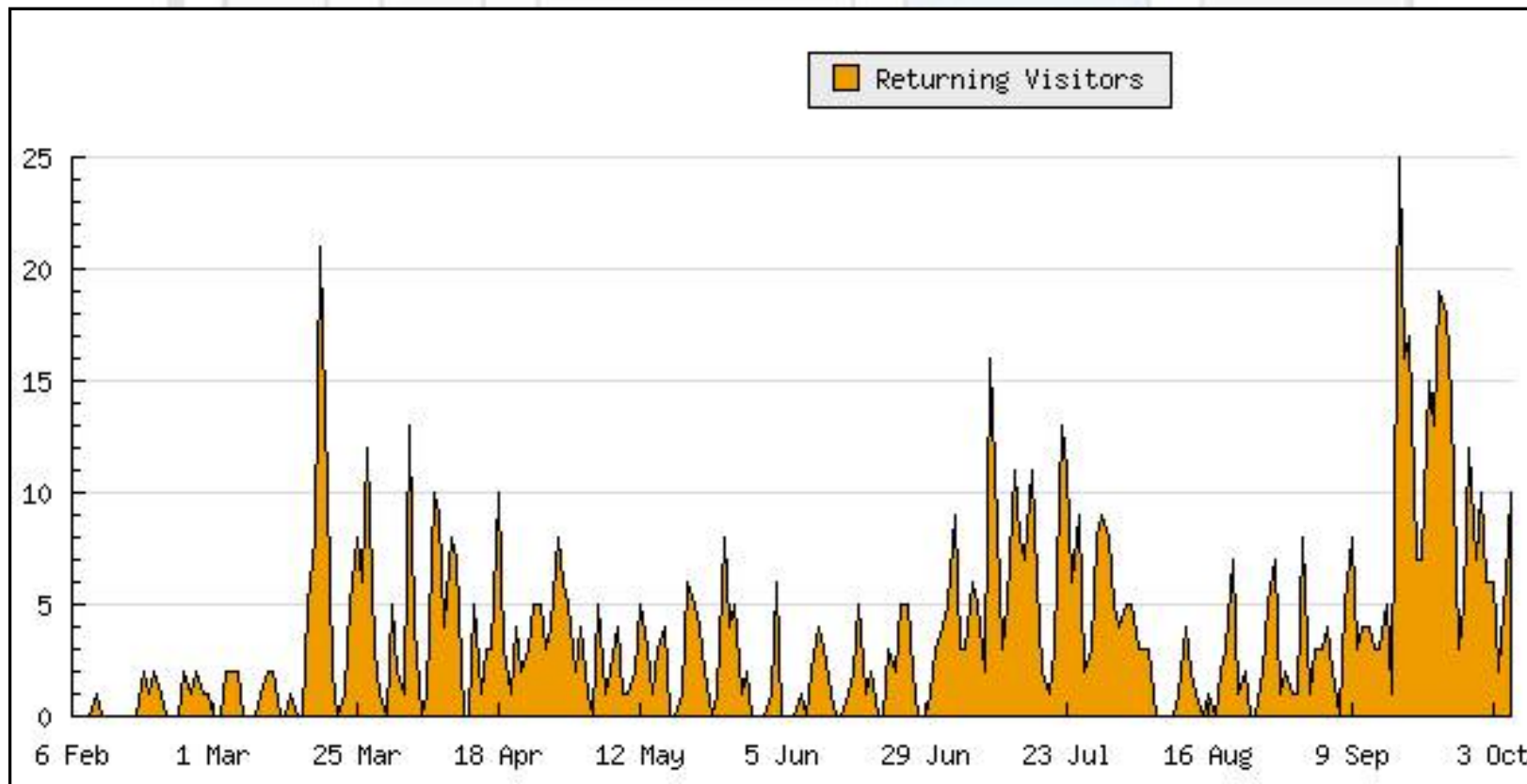


# Returning visitors in the last 8 months



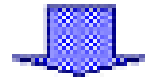
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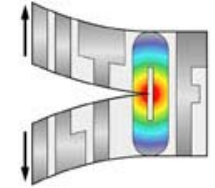
1. Educational needs survey



2. Training Design & Content  
Set Up



3. Testing & Evaluation of  
Courses

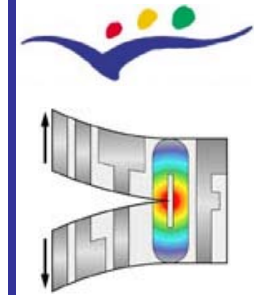


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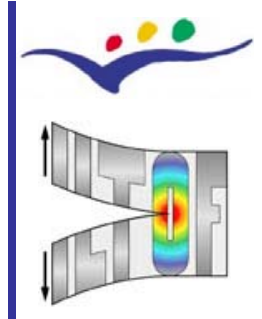
# Educational needs survey



## 8. Your Company / Institution is involved into

	Response Percent
<b>Research and Development</b>	55.7%
Design	36.0%
Building / Manufacturing	24.9%
Maintenance / Inspection	9.3%
Demolition / Disposal	0.9%
Education / Training	53.4%
Consultancy	10.4%
Other (please specify)	7.5%

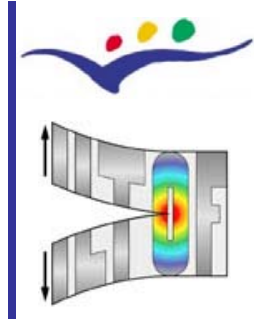
# Educational needs survey



## 9. Field of activity

	Response Percent
Civil engineering	20.3%
Structures	15.3%
Plants	6.4%
<b>Mechanical engineering</b>	<b>41.1%</b>
Machinery	14.8%
Aerospace	15.1%
Automotive	18.7%
Railways	4.8%
Materials	22.2%
Other (please specify)	32.9%

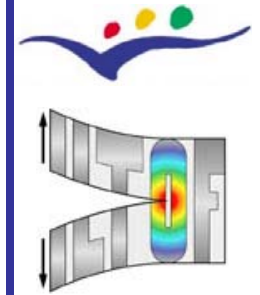
# Educational needs survey



## 15. Enhancement of QUALITY / SAFETY know-how in the following areas is:

	1- unimportant	2	3	4	5 - very important
Fracture mechanics: basic concepts and general criteria	2.1% (4)	5.3% (10)	18.0% (34)	36.0% (68)	<b>38.6% (73)</b>
Fracture mechanics: standards and codes of practice	1.1% (2)	1.6% (3)	17.6% (33)	37.8% (71)	<b>42.0% (79)</b>
Structural integrity: basic concepts and general criteria	2.1% (4)	4.2% (8)	16.3% (31)	<b>40.0% (76)</b>	37.4% (71)
Structural integrity: standards and codes of practice	1.6% (3)	2.1% (4)	15.4% (29)	<b>41.5% (78)</b>	39.4% (74)
Fatigue: basic concepts and general criteria	1.1% (2)	4.3% (8)	19.3% (36)	35.3% (66)	<b>40.1% (75)</b>
Fatigue: standards and codes of practice	1.6% (3)	2.7% (5)	15.6% (29)	36.6% (68)	<b>43.5% (81)</b>
Further topics	4.5% (6)	7.5% (10)	28.4% (38)	<b>36.6% (49)</b>	23.1% (31)

# E-learning and distance learning courses (more than 70 h)



## Which course is right for you?

	Introductory	Advanced
Theoretical	ILTOF02; ILTOF04	ILTOF01; ILTOF09
Applied	ILTOF07; ILTOF08	ILTOF03; ILTOF05; ILTOF06

## Politecnico di Torino

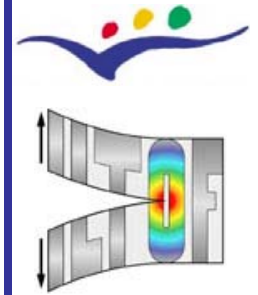
ILTOF01: *Fracture Mechanics and Complexity Sciences.*

ILTOF02: *Fundamentals in Linear Elastic Fracture Mechanics.*

ILTOF03: *Advanced Applications of Nonlinear Crack Models.*

ILTOF04: *Miscellanea.*

ILTOF05: *Structural Damage Mechanisms Interpreted by Acoustic Emission.*



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## **Kielce University of Technology**

ILTOF06: *Application of Fracture Mechanics, Fatigue and Creep Principles to Avoid or Predict Failure in Engineering Problems.*

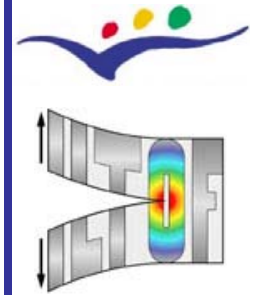
ILTOF07: *Applications of the Finite Element Method in Fracture Mechanics.*

## **Democritus University of Thrace**

ILTOF08: *Concepts of Fracture Mechanics.*

## **Fraunhofer-Institut**

ILTOF09: *Statistical Methods in Fatigue Testing.*

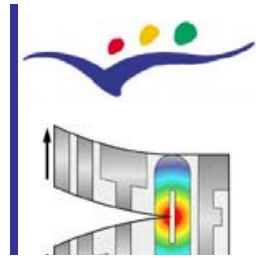


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# Testing and evaluation



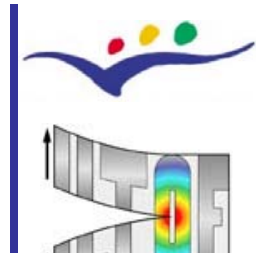
## 1. Are you new to the fracture mechanics – structural integrity topic or already trained - expert of the matter?

	Response Percent
I am new to the topic	61.5%
I am already trained on the topic	34.6%
I am an expert / I master the topic	3.8%

## 2. You are...

	Response Percent
student	61.5%
professor / trainer	3.8%
employee / manager in industry	30.8%
self-employed	0.0%
<a href="#">view</a> none of the above (please specify)	3.8%

# Testing and evaluation



## 3. Your overall level of satisfaction: was the course useful?

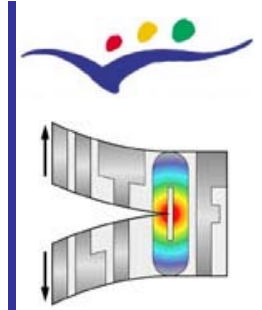
		Response Percent
excellent		52.4%
very good		14.3%
good		23.8%
acceptable		9.5%
poor		0.0%
very poor		0.0%

## 4. If you are new to the fracture mechanics / structural integrity topic your interest in the topic is:

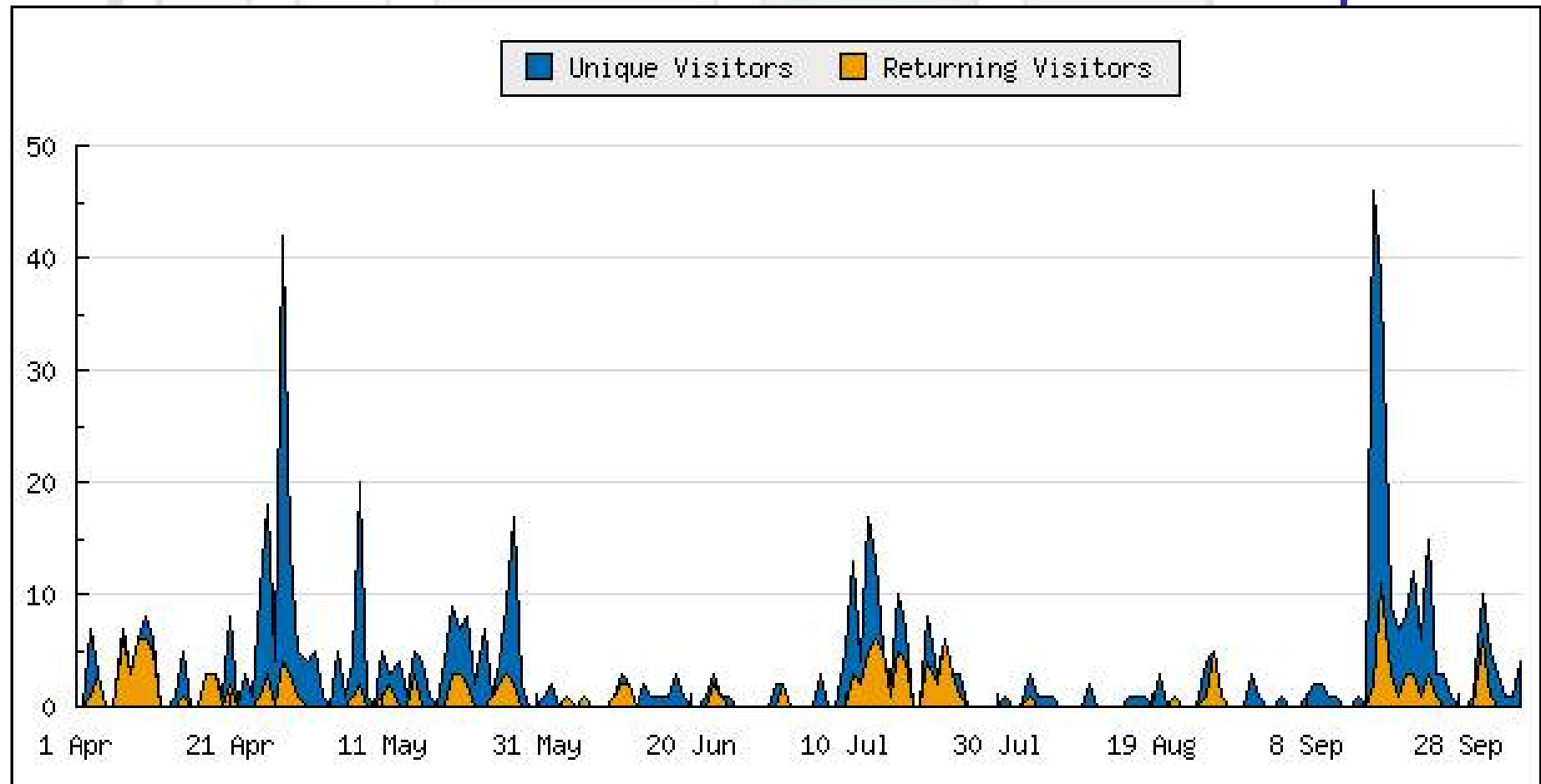
		Response Percent
increased		94.7%
decreased		0.0%
do not know		5.3%



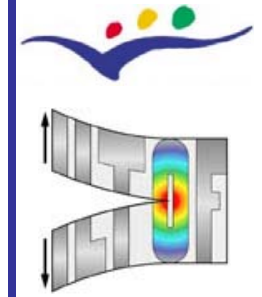
# Testing and evaluation

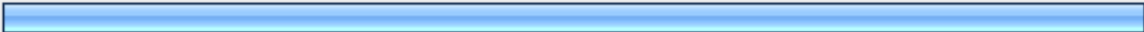



ILTOF01: 636 unique visitors and 179 returning visitors



# Future perspectives

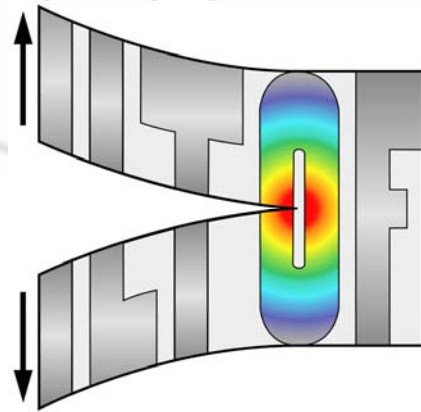


4. Are you interested in engaging a discussion with lecturers?		Response Percent
Yes		95.5%
No		4.5%
Don't know		0.0%



# Acknowledgements

The financial support of the European Union is gratefully acknowledged.

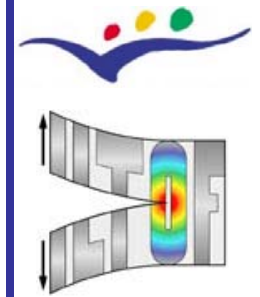


[www.iltof.org](http://www.iltof.org)

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