

LEONARDO DA VINCI

Community Vocational Training Action Programme

Second phase: 2000-2006

ILTOF

Innovative Learning and Training On Fracture

Fourth Meeting

Nippon Hotel, Istanbul, Turkey - Friday, May 30, 2008

2008-05-30

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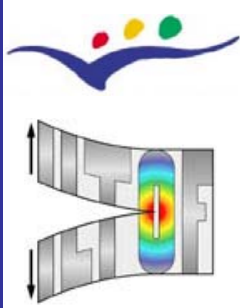


Agenda

9.00 Opening

- Welcome to the Participants (H. Oka)
- Brief overview on the progress of the ILTOF Project (A. Carpinteri)
- Work Package 1: Coordination
- Work Package 4: Products implementation
- Work Package 5: Products testing
- Work Package 6: Evaluation and tuning
- Work Package 7: Dissemination
- Organization and scheduling of new activities

17.00 Closure



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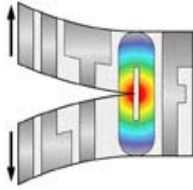
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Brief overview on the progress of the ILTOF Project

A. Carpinteri
Politecnico di Torino



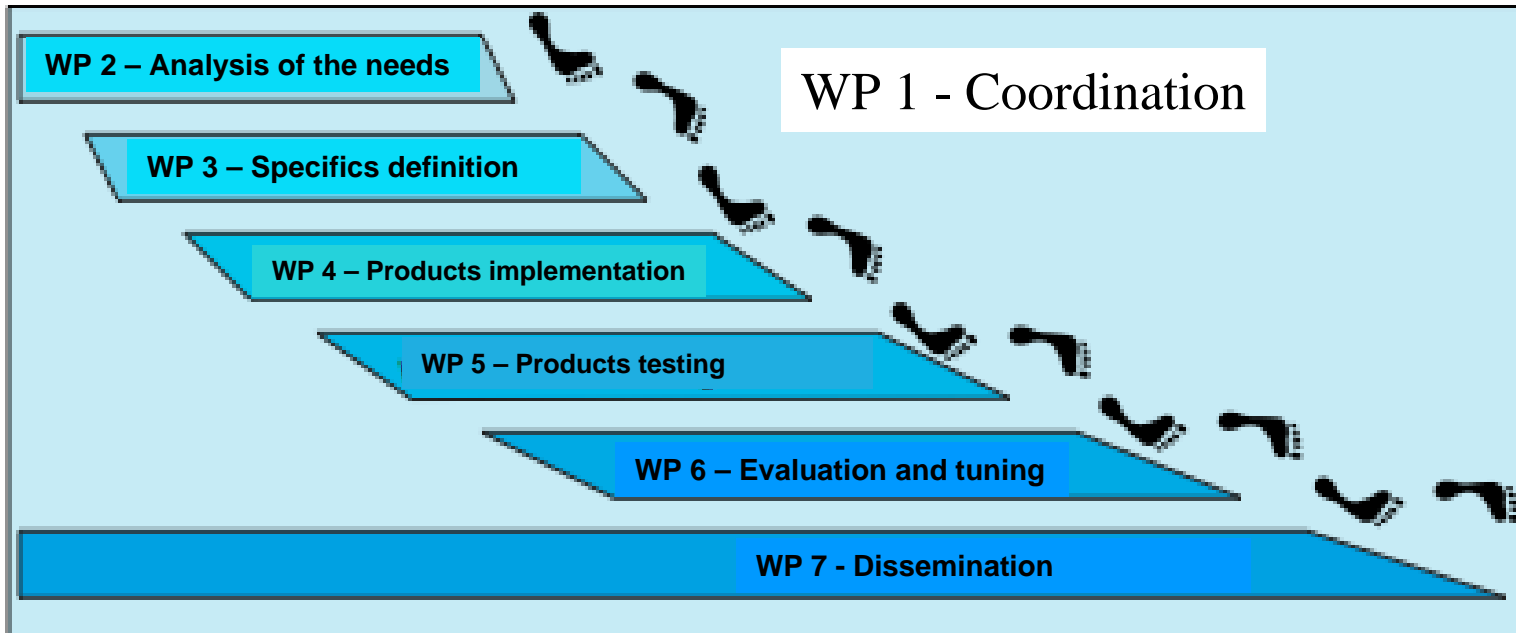
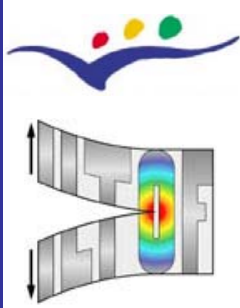
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ILTOF Project: Conceptual outline

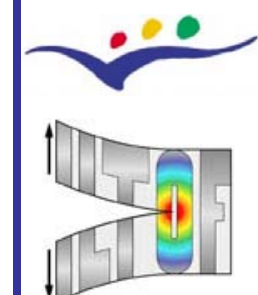


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154069

ILTOF Project: Operative table



Original operative table

WP	ACTIVITY	MONTH																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	Coordination		M						M				m			M			m			M		m		M
2	Needs analysis		M																							
3	Specifics def.		M						M																	
4	Implementation								M				m			M			m			M				
5	Testing								M				m			M			m			M			m	
6	Evaluation																					M		m		M
7	Dissemination		M						M				m			M			m			M		m		M

Updated operative table (approved by the Italian National Agency)

WP	ACTIVITY	MONTH																										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
1	Coordination		M						M				m			M			m			M			m			M
2	Needs analysis		M																									
3	Specifics def.		M						M																			
4	Implementation								M				m			M			m			M						
5	Testing								M				m			M			m			M			m			
6	Evaluation																					M			m			M
7	Dissemination		M						M				m			M			m			M			m			M

Active Work Packages

- **WP1: Coordination**

WP Leader: **POLITO**

From October 1, 2006 to November 30, 2008

- **WP4: Implementation**

WP Leader: **POLITO**

From January 1, 2007 to July 31, 2008

- **WP5: Testing**

WP Leader: **ESIS**

From May 1, 2007 to September 30, 2008

- **WP6: Evaluation and tuning**

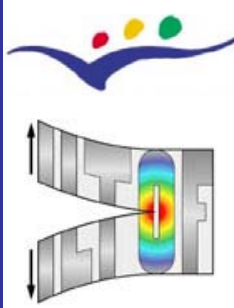
WP Leader: **ITWM**

From March 1, 2008 to November 30, 2008

- **WP7: Dissemination**

WP Leader: **ESIS**

From October 1, 2006 to November 30, 2008



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WP1: Coordination

PERIOD: from October 1, 2006 to November 30, 2008

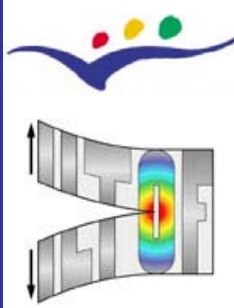
WP Leader: POLITO

Expected results

General activity related to the Project coordination.

Achieved products/results

- (1) Collection of the presentations delivered during the meetings by the Partners and upload on the Project web-site.
- (2) Scheduling of the meetings and coordination of the Partners' activities.
- (3) Organization of the Opening Conference of the Project:
FraMCoS-6 Post-Conference Workshop on "Acoustic Emission and Critical Phenomena: from Structural Mechanics to Geophysics", Sheraton Hotel Conference Centre, Catania, ITALY, June 22, 2007.



2008-05-30

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*Project
I/06/B/F/PP-
154069*



WP4: Products implementation

PERIOD: from January 1, 2007 to July 31, 2008

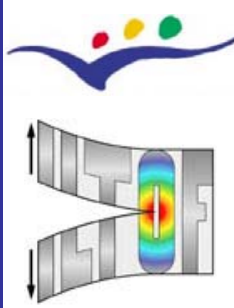
WP Leader: POLITO

Expected results

- (1) At least 10 courses will be realized and implemented on the web-site by POLITO, LAMDUT, KUT, ITWM and ESIS on the most topical themes previously specified.
- (2) Realization of the corresponding educational material.

Achieved products/results

- (1) Online publication of the Video-Course ILTOF01 (12 hours):
“Fracture Mechanics and Complexity Sciences”.



2008-05-30

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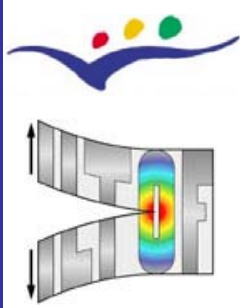
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I/06/B/F/PP-
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Ongoing activities

Video-courses:

POLITO (4 video-courses in English):

- ILTOF02: *Fundamentals in Linear Elastic Fracture Mechanics* (10 h);
Status: completed and to be published online.
- ILTOF03: *Advanced Applications of Nonlinear Crack Models* (8 h);
Status: completed and to be published online.
- ILTOF04: *Miscellanea* (8 h);
Status: completed and to be published online.
- ILTOF05: *Structural Damage Mechanisms Interpreted by Acoustic Emission* (4 h).
Status: completed and to be published online.



2008-05-30

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Fourth
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Project
I/06/B/F/PP-
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Ongoing activities

Video-courses:

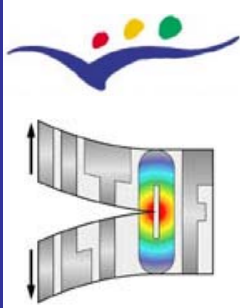
KUT (2 video-courses in Polish and English):

- ILTOF06: *Application of Fracture Mechanics, Fatigue and Creep Principles to Avoid or Predict Failure in Engineering Problems* (9.5 h);

Status: English and Polish versions to be completed by the middle of June.

- ILTOF07: *Applications of the Finite Element Method in Fracture Mechanics* (10 h);

Status: Polish version completed and to be published online; English version to be completed by the middle of June.



2008-05-30

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Fourth
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I/06/B/F/PP-
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Ongoing activities

Video-courses:

LAMDUT (1 video-course in English):

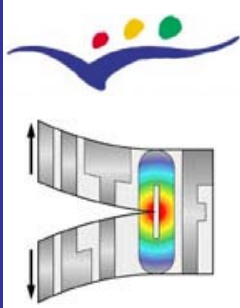
- ILTOF08: *Concepts of Fracture Mechanics* (15 h).

Status: to be completed.

ITWM (1 video-course in English):

- ILTOF09: *Statistical Methods in Fatigue Testing* (4 h).

Status: completed and to be published online.



2008-05-30

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Fourth
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I/06/B/F/PP-
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Ongoing activities

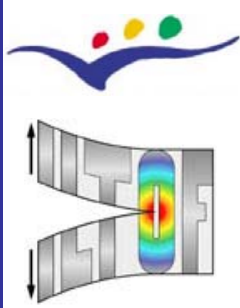
Textbooks:

POLITO:

- Production of two primers (one on fundamental aspects and another on advanced applications).

KUT:

- Production of one book in Polish (to be completed by the beginning of September).



2008-05-30

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Fourth
Meeting*

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I/06/B/F/PP-
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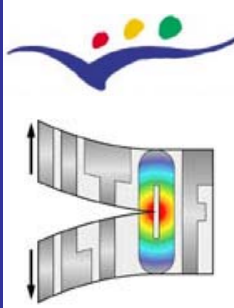
WP5: Products testing

PERIOD: from May 1, 2007 to September 30, 2008

WP Leader: ESIS

Expected results

- (1) Testing of the effectiveness of the produced material, from both the training and the technology viewpoints.
- (2) The selected end-users will test the educational material and the production methodologies.
- (3) The data will be collected in a specific form described in the test plan (i.e. questionnaires, interviews, reports concerning the use of the web-site and of the training resources, etc.).



2008-05-30

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Fourth
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Project
I/06/B/F/PP-
154069

Planned activities

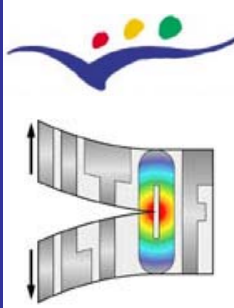
TCN: Production of the evaluation questionnaire (paper and electronic versions).

MESCO: 1 MESCO expert in Fracture Mechanics involved in the testing activity + publication of information to find interested users.

NAFEMS: Testing of the following courses: ILTOF03, ILTOF06, ILTOF07 (2 people involved + information activity to find interested users).

POLITO: Testing of the following courses: ILTOF01 (1 Ph.D. student involved); ILTOF02, ILTOF03, ILTOF04, ILTOF05 (approximately 30 Master's students involved).

ESIS, FIGES, ITWM, KUT, LAMDUT: activities to be planned during the meeting.



2008-05-30

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Fourth
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I/06/B/F/PP-
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WP6: Evaluation and tuning

PERIOD: from March 1, 2008 to November 30, 2008

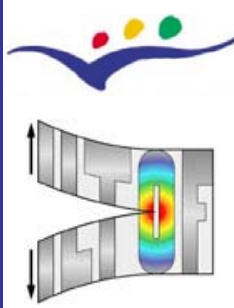
WP Leader: ITWM

Expected results

- (1) Final evaluation of the courses and the adopted technologies.
- (2) The educational effectiveness and the efficacy of the adopted technology will be evaluated. Possible adjustments, integrations and modifications to the produced material will be made.

Planned activities

To be defined during the meeting.



2008-05-30

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154069



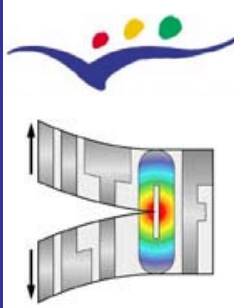
WP7: Dissemination

PERIOD: from October 1, 2006 to November 30, 2008

WP Leader: ESIS

Expected results

- (1) Opening and Closing Conferences.
- (2) International seminars.
- (3) National meetings.
- (4) Written contributions in specialized press, technical journals and newsletters.
- (5) Direct mailing to partners, customers, and external coworkers.
- (6) Advertisement of the project results.



2008-05-30

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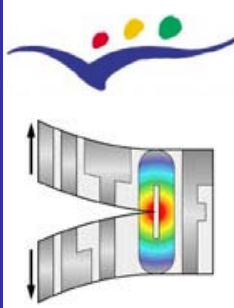
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Achieved products/results

(1) Project web-site featuring the following content:

- Introduction to the ILTOF Project and List of Partners;
- Documents
 - Minutes of the meetings with related enclosures;
 - Dissemination activities: Opening Conference;
- Results of the ILTOF Survey;
- Library (collection of scientific papers on Fracture Mechanics and Structural Integrity);
- List of “Fracture Mechanics People” including 19 experts;
- List of other training initiatives.



2008-05-30

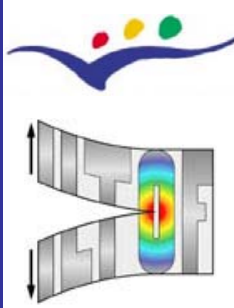
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Fourth
Meeting*

*Project
I/06/B/F/PP-
154069*



Achieved products/results

- (2) Link to the ILTOF web-site on the Partners' web-sites.
- (3) A first phase project leaflet has been produced and sent to:
 - The Italian researchers of Structural Mechanics and Structural Design.
 - Members of the ESIS, ICF and IA-FraMCoS Associations (nearly 2000 potential end-users).
- (4) Opening Conference: FraMCoS-6 Post-Conference Workshop on “Acoustic Emission and Critical Phenomena: from Structural Mechanics to Geophysics”, Sheraton Hotel Conference Centre, Catania, ITALY, June 22, 2007.
- (5) Project advertisement on the IGF Newsletter No. 3 and on the IGF web-site.
- (6) One full-page Project advertisement on: “The Parliament Magazine - 12th November Edition 2007 On Education”¹⁸



2008-05-30

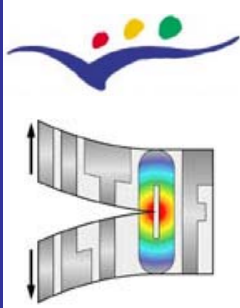
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I/06/B/F/PP-
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Second pre-financing payment

- amount: 30% of the maximum Community contribution
- scheduled date: summer 2008
- payment only where the partner proves that he spent the whole first instalment (declaration)



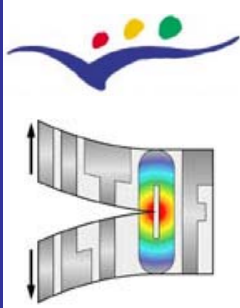
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Fourth
Meeting

Project
I/06/B/F/PP-
154069

Financial responsibility

1. The final financial contribution shall depend on the evaluation of the quality of the results of the project pursuant to the rules laid down in the Administrative and Financial Handbook, but shall, under no circumstances, give rise to a profit
2. All payments shall be regarded as advances pending explicit approval by the National Agency of the final report, the corresponding cost statement and the quality of the results of the project
3. The final payment shall constitute the payment of the amount necessary to balance revenue and expenditure



2008-05-30

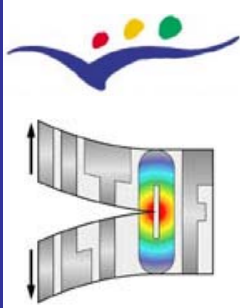
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Fourth
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*Project
I/06/B/F/PP-
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Eligibility of expenses

- The costs must be directly connected with the execution of the project in accordance with the work plan, incurred by the member organizations of the Partnership, and carried out during the contract period
- The period of eligibility of the costs starts on 01/10/2006 and finishes on 30/11/2008



2008-05-30

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