



RILEM EAC PhD Course Report

Title: Modeling of Localized Inelastic Deformation
Dates: 9-13 September 2019
Venue: Czech Technical University in Prague, Czechia

1) Brief outline of course topic (photos from course can be included, if available)

Constitutive frameworks for modeling of inelastic behavior, such as plasticity and damage mechanics, as well as techniques for objective description of localized failure based on the crack band approach and on regularized continua (various types of nonlocal and gradient-enhanced models, including phase-field models).

2) Who were the teachers-affiliations?

Milan Jirásek (Czech Technical University in Prague)

3) How many students attended (participants) —status (PhD, MSc, industry, etc.)Affiliations?

17 PhD students and postdocs from 10 countries.

4) Number of Registered and unregistered students.

17 registered students.

5) Brief review of course scope, course content and lecture schedule.

1. Introduction
2. Plasticity
3. Damage mechanics
4. Localization
5. Integral-type nonlocal models
6. Gradient-enhanced models

Lectures Monday-Friday, morning sessions 9:00-10:15 and 10:45-12:00, afternoon sessions 14:00-15:15 and 15:45-17:00.

6) Financial support received.

None.

7) Scientific (beyond EAC) Sponsorship.

None.

8) Were Course Evaluations submitted by participants?

No.

9) Evaluation of Learning Outcomes (Grading, etc) ECTS points, if applicable.

N/A

10) Is it planned to continue the course in future (i.e. as a course series at regular intervals)?

Yes, every year in September.

11) How was RILEM presented to participants?

Presented by RILEM Implementation Manager Daniela Ciancio at the course opening session and then in detail in a special session followed by a RILEM sponsored pizza party.

Name: Milan Jirásek

Date: 17 September 2019

This summary report will be published on RILEM website (on the EAC page).

Please send separately the list of student participants (with their contact information) who attended the course to the General Secretariat for a special free membership of 3 years.*