

# Workshop on Forensic Application of FE modelling

14 February 2020 : 10H00 to 16H00  
At Strasbourg

Context

The understanding of injury mechanisms is an essential aspect in Legal Medicine.

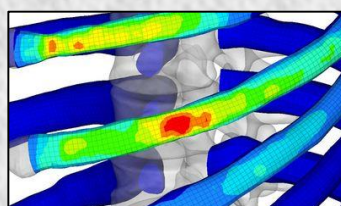
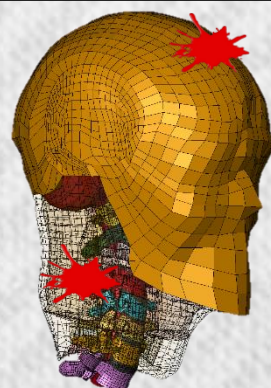
In order to elucidate accidents, assaults or child abuse, an application of advanced methods addressing the mechanical dimension is of high importance and is more and more observed in the literature.



The objective is to introduce the concept of a multi-disciplinary (medical and mechanical) collaboration platform.

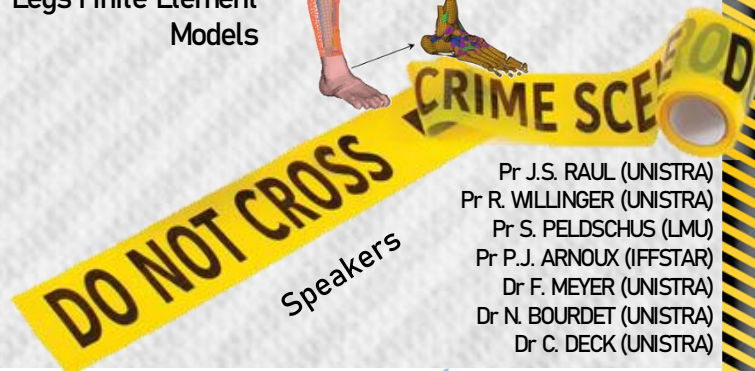
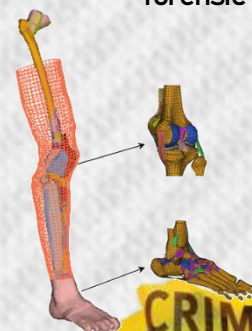


Head Neck Finite Element  
Models used for forensic  
applications



Thorax and abdomen Finite  
Element Models used for  
forensic applications

Lower Legs Finite Element  
Models



Pr J.S. RAUL (UNISTRA)  
Pr R. WILLINGER (UNISTRA)  
Pr S. PELDSCHUS (LMU)  
Pr P.J. ARNOUX (IFFSTAR)  
Dr F. MEYER (UNISTRA)  
Dr N. BOURDET (UNISTRA)  
Dr C. DECK (UNISTRA)

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*Location*

Université de Strasbourg  
Department of Mechanics  
4 rue Boussingault, Strasbourg

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## *10:00 Welcome*

10:15 Case study presentations on biomechanical problems in Legal Medicine

10:45 Structure, principles and analysis options of biomechanical simulation models of the human body, explanation of multi-body and Finite-Element approach

11:45 reconstruction of impacts of the human body

## *12:30 lunch break*

Injury mechanics with examples of simulation models of body regions:

13:15 Head

13:45 Spine

14:15 Thorax

14:45 Discussion on realistic processes of interdisciplinary collaboration for the application of numerical tools in Legal Medicine practice

## *15:45 Summary*

*Agenda*

**DO NOT CROSS**  
Speakers

CRIME SCENE  
Pr J.S. RAUL (UNISTRA)  
Pr R. WILLINGER (UNISTRA)  
Pr S. PELDSCHUS (LMU)  
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