



# 16<sup>th</sup> Youth Symposium on Experimental Solid Mechanics

## Announcement and Call for Papers

**May 17 – 19, 2018**

### International Academy Traunkirchen

The 16th symposium continues both the long tradition of this conference series and introduces novel elements.

The YSESM 2018 symposium provides a forum for young researchers and engineers, students and PhD students dealing with subjects of experimental mechanics. In addition, the combination of the experimental mechanics with modern numerical methods will be also a focus.



## Program

<b>May 16, 2018</b> (Wednesday)	Registration
<b>May 17, 2018</b> (Thursday)	Key-note lectures, forming of teams and team work definition
<b>May 18, 2018</b> (Friday)	Poster presentations, conference dinner
<b>May 19, 2018</b> (Saturday)	Poster presentation and team work presentation

## Topics

The Symposium concentrates on current work in all areas of experimental research and its application in solid and fluid mechanics. The topic will particularly concern to:

- Conventional and Advanced Experimental Methods of Solid and Fluid Mechanics
- Non-Destructive Testing and Inspection
- Measurements in Material Science
- Advances in Material Testing
- Time Dependent Material Behavior
- High Rate Impact Testing
- Computer Assisted Testing and Simulation
- Optical Methods and Image Processing
- Computed Tomography Imaging, 4D Volume Digital Image Correlation
- Active Thermography
- Measurements in Biomechanics
- Experimental Biorobotics
- Testing of Hydrogels and Bioscaffolds
- Sensor Techniques for Micro- and Nano-Applications
- Fracture and Damage Mechanics
- Engineering Design Simulation
- Experimental Mechanics for Additive Manufacturing
- Hybrid Methods, Experimental Techniques combined with Numerical Simulations

## Key-Note lectures

Special focus is given during the 16th YSESM symposium to (i) the combination of experimental mechanics and numerical simulation, (ii) transformation of 3D and 4D imaging data into material models and (iii) experimental techniques for supporting additive manufacturing.

The key-note speakers of the symposium are:

**Prof. Lucien Laiarinandrasana**, Mines ParisTech, (France)

**Prof. Ludovic Noels**, University of Liège, (Belgium)

**Dr. Stephen Hall**, Division of Solid Mechanics, (Sweden)

**Dr. Fabian Grasse**, Grasse Zur Ingenieurgesellschaft mbH (Germany)

**Dr. Stephan Vervoort**, HBM Prenscia, (Germany)

The key-note lectures summarize the main topics of the selected field and are going to show scientific perspectives on these fields for young researches.





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## Conference Fee

The Symposium fee **350 Euro** includes:

- Accommodation for young researchers in double rooms (2 persons)
- Refreshment and meal during the symposium
- Conference kit and proceedings
- Conference gala dinner

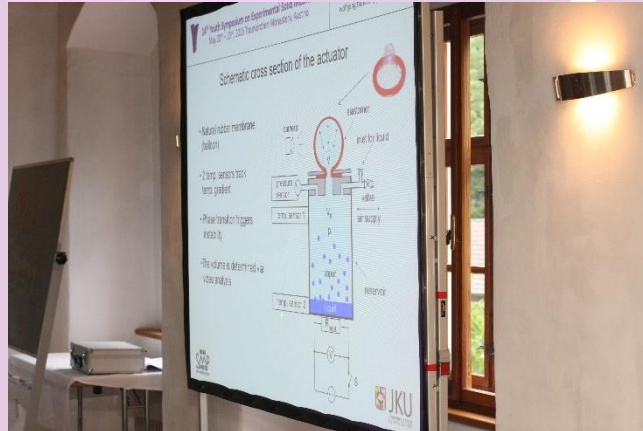
## Team Work

The participants of the symposium will form teams (8-10 persons/team) during the symposium. The teams have to solve a complex problem related to the mechanics of materials using both analytical and numerical tools. The Organizing Committee provides both computers with various software tools as well as tutors for the teams.



## Poster presentations

The participants can present their poster during a short oral presentation (max 5 minutes). After the oral presentations there is a poster session for presenting the posters selected for this session.



## Timeline

Second circular will be sent out by **end December 2017**.  
Deadline for abstracts will be **January 31, 2018**.  
Deadline for registration (incl. payment) will be **February 28, 2018**.

## Publication

1. Book of (all submitted) abstracts will be published by IPPE JKU – only digital form, [www.facebook.com/yseesm2018](http://www.facebook.com/yseesm2018)
2. Standard proceedings will be published in Acta Polytechnica CTU Proceedings (APP) journal (ISSN 2336-5382) after peer-review of submitted full papers.
3. Best 5 papers should be published in extended version in Acta Polytechnica (ISSN 1210-2709, Scopus indexed journal)

## Contact & Information

Homepage: <http://www.jku.at/conferences/yseesm2018>

E-mail: [yseesm2018@jku.at](mailto:yseesm2018@jku.at)