

FRANCE & PORTUGAL

25 years of collaboration4-5 July 2024Lorient, France & online event

Future trends in virtual sheet metal forming

Université Bretagne Sud - Universidade de Coimbra - Universidade de Aveiro

The context

It all started a long time ago, when three PhD students, Luis, Pierre-Yves and Sandrine, were buddies in the same research unit GPM2, in Grenoble, France. Some years later, they met again at the Numisheet international conference held in Besançon in 1999. And here we are, 25 years later, with more partners, projects, joint PhD supervisions, and a shared interest in material forming and sheet metal mechanical behavior.

This event is a celebration to this long, fruitful, and excellent collaboration between 3 universities (Bretagne Sud, Coimbra and Aveiro) and 3 research units (IRDL, CEMMPRE and TEMA).

Here is a glimpse of the program

- A short history of 25 years of collaboration.
- Scientific talks related to plasticity model calibration with Artificial Intelligence, hot forming, challenges in virtual sheet metal forming, a dedicated numerical tool for virtual forming, hydraulic bulging for material characterization and virtual additive manufacturing
- And a distinguished guest: **Prof Frédéric Barlat**, emeritus professor at Postech, Republic of Korea, and visiting professor at Université Bretagne Sud, had also a long-term collaboration with Universidade de Aveiro.
- PhD students will share their topic in a "MyPhD180" way.
- A panel discussion with doctors, who did their PhD work under a joint supervision between France and Portugal, will share their experience.

How to attend the event

The French-Portuguese team will be in Lorient, France. And the event can be attended online. **Interested?** Send an email to sandrine.thuillier@univ-ubs.fr, you will receive the information for the connection a few days before the event.

Detailed program

Betanea program		
Thursday 4 July		
From noon	Welcome and lunch*	
2 pm	Luis Menezes, Pierre-Yves Man-	Some history about the collaboration
	ach, Sandrine Thuillier	
2:45 pm	Antonio Andrade-Campos	AI: from model calibration to model discov-
		ery
3:30 pm	Hervé Laurent	Hot forming: experiments and modelling
4:15 pm	Coffee break*	
4:45 pm	Marta Oliveira	Challenges in numerical simulation of sheet metal forming
5:30 pm	Concluding comments on day 1	
6 pm	End of day 1	
8 pm	Dinner*	
Friday 5 July		
9 am	Welcome and coffee*	
9:15 am	Frédéric Barlat	Thermodynamics and modelling of plasticity
10 am	José Luis Alves	Contribution of DD3 family to the learning and teaching of plasticity and of metal form- ing technologies: a well-succeed curricular unit
10:45 am	Coffee break*	
11:15 am	Lisa Germain	Hydraulic bulge test for material characterization
12 am	Diogo Neto	Virtual Additive Manufacturing: laser-powder bed fusion, from meso-scale to macro-scale
12:45 am	Lunch*	
2 pm	Mafalda Gonçalves, Thibault	MyPhD180
	Barret, Nivesh Gautam, Bruno	
	Marques, Edmundo Sergio, Pedro	
	Costa, Carlos Andrade	
2:45 pm	Jérémy Coër, Nelson Souto,	Panel discussion. Moderator: Abhishek Ku-
	Vasco Simões, João Martins	mar

4:30 pm

5 pm

8 pm

For more information on the universities and research units:

Concluding comments

End of day 2 Dinner*

- Université Bretagne Sud: https://www.univ-ubs.fr/, IRDL https://www.irdl.fr/
- Universidade de Coimbra: https://www.uc.pt/, CEMMPRE https://www.uc.pt/cemmpre/
- Universidade de Aveiro: https://www.ua.pt/, TEMA https://www.ua.pt/en/tema/





^{*}For the French-Portuguese team only.