



# Soft Material Models SMM2025

## International Conference Program

April 24-25, 2025, Annabi Amphi, ENIT

Thursday April 24 2025	
08h00 – 09h00	<b>Registration</b>
09h00 – 09h30	<b>Conference Opening</b>
	Moderators: Adnane BOUKAMEL, Centrale Péken, China
09H30 - 10H15	<b>Patrick LE TALLEC, Ecole Polytechnique, France</b> Impact of nonlinear viscoelastic models on the prediction of contact forces involving elastomers in large deformation
10H15 - 11H00	<b>Giuseppe SACCOMANDI, Università degli Studi di Perugia, Italy</b> What is really significant about looking for a mathematical model of nonlinear elasticity?
11h00 - 11H30	<b>Coffee Break &amp; Poster Session</b>
	Moderators: Maher MOAKHER, ENIT-UTM, Tunisia
11h30 – 12h15	<b>Laurence BRASSART, University of Oxford, UK</b> Micromechanical modelling of rubbery networks: discrete and continuum approaches
12h15 – 13h00	<b>Noureddine DAMIL, Centrale Casablanca, Morocco</b> A micromechanical model for hyper-elastic rubber-like materials and numerical resolution by the ANM algorithm
13h00 – 14h30	<b>Lunch</b>
	Moderators: Jamel NEJI, ENIT-UTM, Tunisia
14h30 – 15h15	<b>Said GMOUH, University of Casablanca, Morocco</b> Functionalization of Textile Materials with Ionic Liquids: Toward Advanced Technical and Smart Textiles
15h15 - 16h00	<b>Hervé DI BENEDETTO, Lyon University/ENTPE, France</b> Behavior of bituminous materials and interfaces: focus on the small strain domain
16H00 - 16H30	<b>Coffee Break &amp; Poster Session</b>
	Moderators: Yamen MAALEJ, ENIT-UTM, Tunisia
16h30 - 17H15	<b>Hamid ZAHROUNI, University of Lorraine, France</b> Bifurcation analysis of thin structures using Asymptotic Numerical Method
17h15 – 18h00	<b>Claude STOLZ, CNRS, France.</b> Moving layers and graded damage coupling with elasto-plasticity



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Friday April 25 2025	
08h00 - 09h00	<b>Registration</b>
	Moderators: Essaieb HAMDI, ENIT-UTM, Tunisia
09h00 – 09h45	<b>Heng HU, Ningxia University/Wuhan University, China</b> Quantum Computing Enhanced Data-Driven Computational Mechanics for Composite Structures
09h45 - 10h30	<b>Hassan HANNACHE, Mohammed VI Polytechnic University, Morocco</b> Phosphate-Based Geopolymers: current advances and Key Challenges
10h30 – 11h00	<b>Coffee Break &amp; Poster Session</b>
	Moderators: Stephane MEO, University of Tours, France
11h00 – 11h45	<b>Oscar LOPEZ-PAMIES, University of Illinois, USA</b> Nucleation and propagation of fracture in viscoelastic elastomers: A complete phase-field theory
11h45 – 12h30	<b>Jean-Benoit LE CAM, University of Rennes, France</b> Experimental thermomechanics and energetic behavior of elastomers: revisiting rubber elasticity, viscosity, stress-softening, strain-induced crystallization and energy stored
12h30 to 14h00	<b>Lunch</b>
	Moderators: Georges LIMBERT, University of Southampton, UK
14h00 - 14h45	<b>Martine BEN AMAR, Sorbonne University/ENS Paris, France</b> Nonlinear Plane strain elasticity and complex analysis
14h45 - 15H30	<b>Roberto SANTOPRETE, L'OREAL, France</b> Face biomechanics as a key player for aging perception
15h30 – 16h00	<b>Coffee Break &amp; Poster Session</b>
	Moderators: Karim MILED, ENIT-UTM, Tunisia
16h00 – 16h45	<b>Yves RENARD, INSA Lyon, France</b> Shape optimization of an elastomer rolling structure taking into account contact and friction
16h45 - 17h30	<b>Issam DOGHRI, Université Catholique de Louvain, Belgique</b> Time and space multiscale modeling of the high cycle fatigue of thermoplastic polymer solids and structures
17h30 – 18h00	<b>Closure</b>