Symposium 11: Finite Fracture Mechanics: Theoretical Aspects, Numerical Procedures, and Experimental Applications

Organizers: Vladislav Mantič, Pietro Cornetti, Dominique Leguillon and Pedro Camanho

Location: Dogwood B

Session	Presenting Author	Presenter Affiliation	Title	Talk Date and Time	Length (minutes)
Tu1 Tuesday, June 13, 10:30-12:30 Session Chair: Vladislav Mantic	Pietro Cornetti	Politecnico di Torino, Torino, Italy	3D FINITE FRACTURE MECHANICS UNDER MODE I LOADING: THE FLAT ELLIPTICAL CRACK [Keynote]	6/13/23 10:30	40
	Dominique Leguillon	CNRS - Sorbonne Université, Paris, France	ON THE DIFFICULTY OF IMPLEMENTING THE COUPLED CRITERION TO PREDICT GLASS FRACTURE [Keynote]	6/13/23 11:10	40
	Sara Jiménez Alfaro	Sorbonne University, Paris, France	MODELING OF GLASS MATRIX COMPOSITES BY THE COUPLED CRITERION AND THE MATCHED ASYMPTOTICS APPROACH. THE ROLE OF A SINGLE PLATELET.	6/13/23 11:50	20
	María De Los Ángeles Herrera Garrido	Universidad de Sevilla, Spain	ON-LINE TOOL FOR ANALYSIS OF SINGULAR STRESSES AND DISPLACEMENTS IN ANISOTROPIC MULTI-MATERIAL CORNERS	6/13/23 12:10	20
Tu2 Tuesday, June 13, 14:00-16:00 Session Chair: Luca Susmel	Zohar Yosibash	Tel Aviv University, Faculty of Engineering, School of Mechanical Engineering, Tel Aviv, Israel	ON FFM/PFM FAILURE CRITERIA FOR METALS UNDERGOING SSY - NEW INSIGHTS AT V-NOTCHED TIPS [Keynote]	6/13/23 14:00	40
	Israel García	Universidad de Sevilla, Spain	CRACK DEFLECTION AT CURVED INTERFACES. A FINITE FRACTURE MECHANICS ANALYSIS [Keynote]	6/13/23 14:40	40
	Arturo Chao Correas	Politecnico di Torino, Turin, Italy	FINITE FRACTURE MECHANICS VERSUS PHASE FIELD: A CASE STUDY ON THE CRACK ONSET FROM CIRCULAR HOLES UNDER BIAXIAL LOADING CONDITIONS	6/13/23 15:20	20
	Sachin Yadav	Indian Institute of Technology Delhi, Hauz Khas, New Delhi, India	MECHANICS OF THE INTERACTION OF TWO PARALLEL, SIMULTANEOUSLY GROWING CRACKS USING LEFM	6/13/23 15:40	20
W1 Wednesday, June 14, 10:30-12:30 Session Chair: Pietro Cornetti	Luca Susmel	University of Sheffield, Sheffield, United Kingdom of Great Britain and Northern Ireland	THE THEORY OF CRITICAL DISTANCES TO MODEL THE STATIC STRENGTH OF ADDITIVELY MANUFACTURED CONCRETE/POLYMERS CONTAINING MANUFACTURING DEFECTS/VOIDS [Keynote]	6/14/23 10:30	40
	Vladislav Mantic	Universidad de Sevilla, Spain	SINGULAR ELASTIC SOLUTIONS IN CORNERS AND CRACKS WITH SPRING BOUNDARY CONDITIONS WITH VARYING STIFFNESS [Keynote]	6/14/23 11:10	40
	Karthik Ambikakumari Sanalkumar	Universidad de Sevilla, Spain	FEM IMPLEMENTATION OF THE COUPLED CRITERION BASED ON MINIMIZATION OF THE TOTAL ENERGY SUBJECTED TO A STRESS CONDITION TO PREDICT MIXED MODE CRACK ONSET AND GROWTH	6/14/23 11:50	20
	Mahsa Sakha	ETH Zurich, Switzerland	MODELING HYDRAULIC FRACTURE INITIATION OF A NOTCH-FREE WELLBORE IN ANISOTROPIC ROCKS	6/14/23 12:10	20
W2 Wednesday, June 14, 14:00-16:00 Session Chair: Zohar Yosibash	Alberto Sapora	Politecnico di Torino, Italy	V-NOTCHED COMPONENTS UNDER TORSIONAL FATIGUE LOADING [Keynote]	6/14/23 14:00	40
	Luis Tavara	University of Seville, Spain	MULTIPLE DELAMINATIONS PREDICTION ON ILTS SPECIMENS BY AN ABAQUS IMPLEMENTATION OF THE COUPLED CRITERION OF FFM AND LEBIM [Keynote]	6/14/23 14:40	40
	Jean Vereecke	I2M, CNES, Bordeaux, France	STUDY OF INTRA- AND INTER-LAMINAR DAMAGE INTERACTIONS IN LAMINATED COMPOSITES USING FINITE FRACTURE MECHANICS	6/14/23 15:20	20