

SESSIONS BY DAY

9th Forum on
New Materials



Perugia, Italy • June 25-29, 2022



CIMTEC2022

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	Flowsheet		JUNE 25		JUNE 26		JUNE 27		JUNE 28		JUNE 29	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
9 th FORUM ON NEW MATERIALS	REGISTRATION											
	SYMPOSIUM FA			FA	FA	FA	FA	FA	FA	FA	FA	FA
	SYMPOSIUM FB				FB				FB	FB	FB	FB
	SYMPOSIUM FC			FC				FC				
	SYMPOSIUM FD			FD	FD	FD	FD	FD	FD			
	SYMPOSIUM FE					FE		FE		FE		
	SYMPOSIUM FF			FF	FF				FF		FF	FF
	SYMPOSIUM FG			FG	FG			FG	FG	FG	FG	FG
	CONFERENCE FH			FH	FH	FH	FH	FH	FH	FH	FH	
	SYMPOSIUM FI			FI	FI			FI	FI	FI	FI	FI
	SYMPOSIUM FJ				FJ	FJ		FJ				
	SYMPOSIUM FK			FK	FK	FK				FK		
	SYMPOSIUM FL			FL	FL	FL	FL	FL	FL	FL	FL	
	SYMPOSIUM FM			FM					FM	FM	FM	FM
	SYMPOSIUM FN			FN		FN						
	SYMPOSIUM FO							FO	FO	FO	FO	FO
	SYMPOSIUM FP			FP	FP	FP			FP		FP	FP
	CONFERENCE FQ			FQ	FQ	FQ	FQ	FQ	FQ	FQ	FQ	
	CONFERENCE FR			FR	FR	FR	FR	FR	FR	FR	FR	FR
	POSTER MOUNTING											
POSTER DISCUSSION												
SOCIALS												

PLENARY SESSION



WELCOME RECEPTION



CONFERENCE DINNER

SYMPOSIUM FA
**3D PRINTING AND BEYOND: STATE-
OF-THE-ART AND NEW PARADIGMS
FOR ADDITIVE MANUFACTURING
TECHNOLOGIES**

Room: **ASSISI B**

Chair: Lorenzo VALDEVIT, USA

- 9.00 *FA-1:IL05* **Quality Aspects with Regard to 3D Printing of Ceramics**
H. FRIEDRICH, F. RAETHER, J. VOGT, Fraunhofer Zentrum für Hochtemperatur-Leichtbau HTL, Bayreuth, Germany
- 9.30 *FA-1:IL06* **Additive Manufacturing of Ceramics and Ceramic Composites for Aerospace Applications**
J.J. BOWEN^{1,2}, L.M. RUESCHHOFF¹, K.L. MARTIN^{1,2}, D.P. STREET^{1,3}, M.J.S. PARVELESCU^{1,2}, **M.B. DICKERSON**¹, ¹Materials and Manufacturing Directorate, Air Force Research Laboratory, Wright-Patterson AFB, OH, USA; ²UES Inc., Dayton, OH, USA; ³NRC Research Associateship Programs, Washington, DC, USA
- 10.00 *FA-1:IL08* **Innovative Zirconia-based Material Shaped by SLA 3D Printing**
C. CHAPUT, C. SCHICK, 3DCERAM-SINTO, Bonnac La Cote, France
- 10.30 *Break*

Focused Session FA-5 / FQ-8
**3D Bioprinting of
Soft Tissues and Organs**

(Focused Joint Session with Conference FQ)

Chair: Albert TARANCON, Spain

- 11.00 *FA-5/FQ-8:IL06* **Biofabricating Murine and Human Myo-substitutes for Rapid Volumetric Muscle Loss Restoration**
M. COSTANTINI, Institute of Physical Chemistry - PAS, Warsaw, Poland; C. GARGIOLI, Università degli studi di Roma - Tor Vergata, Rome, Italy
- 11.30 *FA-5/FQ-8:L07* **Nano-encapsulation of Stem Cell-derived β -cell Aggregates using 3D Bioprinting System**
YEONGGWON JO, D.G. HWANG, M. KIM, S. CHO, J. JANG, Pohang University of Science and Technology (POSTECH), Pohang, Gyeongbuk, South Korea
- 11.50 *FA-5/FQ-8:L08* **Modular Assembly of 3D Bioprinted Engineered Heart Tissue to Reconstruct Contractile Direction to Mimic Myocardial Fiber Orientation**
DONG GYU HWANG, U. YONG, H. CHOI, J. JANG, POSTECH, Pohang, Gyeongbuk, South Korea