

## IMC 36 Agenda - Crossland Lecture Theatre, Parsons Building

Time	
08.45	Registration opens
09.15	Welcome- Prof Henry Rice Head of School of Engineering, TCD Prof Garret O'Donnell (IMC 36 Chair)
09.25	Dr David Gillen, MD, Blueacre Technology Keynote: "How does an interest in Lasers turn into an award winning technology company?"
09.50	<b>SFI Research Centres in advanced manufacturing</b>
	SFI AMBER Denise Carthy
	SFI I-Form Heather O'Connor
	SFI Confirm Patrick Reidy
10.35	Coffee Break-Networking
11.00	<b>RPO Research Centres</b>
	EI-IDA IMR Maurice O'Connell
	QUB-NITC Dr. Yan Jin
	<b>Researcher session 1, Additive manufacturing, non-traditional, energy (Prof R. Lupoi -chair)</b>
11.30	Dr. Mark Culleton Requirement and Impact of Support Structure Design within Selective Laser Melting
11.40	Harry Shipley The Effect of Gas Flow during Selective Laser Melting
11.50	Daniel Tobin Geometrical optimisation of Auxetic Structures for Dynamic Impact Scenarios
12.00	Luke Dowling Repeatability in Additive Manufacturing; Developing tools for process improvement
12.10	David Heaphy Stiffness of Intraocular Len Polymers
12.20	Dr. Stephen Davitt Laser Ablation Dry Aerosol Jet Printing: A novel manufacturing technique for printed electronics
12.30	Foram Dave <a href="#">Laser Transmission Welding of Polymers and its Composites</a>
12.40	Elisa Verna Cold spraying of IN 718-Ni coatings: microstructure characterization and tribological performances
12.50	Brian Considine Aspiration Efficiency of common HVAC rainhoods under varying environmental and building operating conditions
13.00	LUNCH-Networking

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<b>Research session 2: Design, Machining, Digital, Education (Prof G.O'Donnell-chair)</b>	
13.45	Kevin Kelly Self Perception and Gender Roles in Engineering
13.55	Gordon O'Brien Design services- enabling research students to accelerate on their journey
14.05	Dr. Eamonn Ahearne Engineering the Surface for Direct Part Marking
14.15	P. Counihan, K Kelleher, M Guilfoyle OEE optimisation of CoCr Femoral Implant Component Processing utilising Schutte Grinder
14.25	Kieran Kelleher Tooling parameter optimisation for machining of CoCr Femoral implant components
14.35	Maeve Guilfoyle Increasing Takumi's Competitive Advantage by Streamlining of the New Part Introduction Process
14.45	Muhammed Adil Khan To investigate the influences of surfaces on the strength of component made by AM using the theory of critical distances
14.55	Abhik Kashyap Investigation of Laser Re-melting on SLM built Ti6Al4V components
15.05	Dean Carpenter Speed Control of Brushless DC Motor using Model Predictive Control
15.15	Madhusudan Bhagavadgeetha Evaluation of the low cost AS10 optical particle counter for airquality monitoring
15.25	Cian Conry Machine Learning- a case study in advanced manufacturing
15.35	<b>CLOSING REMARKS</b>
15.45	Drinks Reception-networking