

Industry Programme RAPDASA 2021 Wednesday 3 November 2021

TIME	DAY 1	
	Plenary and Keynote Sessions are in Room 1 and are not part of the industry presentations track	
	Register at https://site.rapdasa.org/rapdasa-conference-registration to access the full conference	
09:00	Welcome and opening – Chairperson RAPDASA 2021 conference organizing committee – Dr Hencharl Strauss	
09:15	Welcoming by CSIR management: Dr Thulani Dlamini, President and CEO of CSIR	
09:30	Opening Address: Representative of the Department of Science and Innovation	
10:00	PLENARY SESSION: Chair: Prof Deon de Beer	
10:00	Keynote Address: Prof Ian Campbell, Emeritus Professor at Loughborough University: How a Collaborative International Partnership is Driving the DiCoMI Project Forward	
10:30	TEA/COFFEE BREAK	
10:50	Prof Paulo Bartolo Executive Director, Singapore Centre for 3D Printing: Advances in Additive Manufacturing: a journey from Manchester to Singapore	
11:20	Questions and answers	
	Room 4: Industry Presentations	
	Title	Presenter
11:30	CSIR: Welcome and Opening of the Industry Sessions	Hencharl Strauss
11:40	EPIC: Introduction to the European Photonics Industry Consortium	Auri Ripoll
11:50	Elogium: The Role of Super Polymers to Improve the OEE of Operations	W. H. Harmse
12:00	HH industries: Aiding companies with research and development, production, process improvements, and training in Metal AM.	Devon Hagedorn-Hansen
12:10	CSIR: OCT as a tool for quality assurance or surveillance	Ann Singh
12:20	Rapid3D: The Disruption of Economies of Scale	Nik Ivanovic
12:30	SIMTEQ: 18 costly challenges of Additive Manufacturing and how to prevent them.	Paul Naude
12:40		
12:50		
13:00	LUNCH BREAK	
	Room 4: Industry Presentations	
	Title	Presenter
14:00	Mintek: Powder Metallurgy at the Physical Metallurgy Group at Mintek	Hein Möller
14:10	NECSA: Metal, alloy and ceramic powders for Additive Manufacturing produced by Thermal Plasma Spheroidisation	Hertzog Bissett
14:20	NWU: Comprehensive control measures to reduce AM operators to possible health risks	Sonette du Preez
14:30	Aerosud: Identify the correct tool to solve your problem	Frederik Steyn
14:40		
14:50	Ultimate Partner: Ultimate Partner (Pty) Ltd is an engineering solutions provider in South Africa	Jonathan Krusekopf
15:00	Multitrade 3D Systems: Authorised sales partner for GE Additive AM machines in South Africa	Devon Hagedorn-Hansen
15:10	AMTC: Additive Manufacturing 2.0: The future of metal manufacturing starts now with Desktop Metal	Roscher van Tonder
15:20	BunnyCorp: Rapid Product Development and training for automotive, implants and jewellery	Philip van der Walt
15:30	CSIR: Locally developed high power laser solutions for advanced manufacturing systems	Cobus Jacobs
15:40	TEA/COFFEE BREAK	
	Room 4: Industry Presentations	
	Title	Presenter
16:00	Simufact, Germany: A brief display of the different product lines Simufact has to offer in the virtual prototyping environment	Michel Pereme
16:10		
16:20	MerSETA Viro-Vent: merSETA Viro-Vent Innovation Challenge: An engineering response to the pandemic	Robert Malatsi
16:30		
16:40		
18:30	COCKTAIL EVENT (CSIR ICC DECK)	

Industry Programme RAPDASA 2021 Thursday 4 November 2021

TIME	DAY 2	
	Plenary and Keynote Sessions are in Room 1 and are not part of the industry presentations track Register at https://site.rapdasa.org/rapdasa-conference-registration to access the full conference	
08:00	Opening and Welcome: Chairperson RAPDASA 2020 conference organizing committee - Dr Hencharl Strauss	
08:10	PLENARY SESSIONS: Chair: Dr Ntombi Mathe	
08:10	Markus Glasser, EOS: Bringing industrial 3D printing of serial production parts together with responsible manufacturing	
08:40	Karsten Heuser, VP Additive Manufacturing, Siemens Digital Industries: Manufacturing reinvented with robot-based additive manufacturing	
09:10	Prof Alessandro Fortunato: Selective laser melting in endoprotheses fabrication: opportunities and challenges	
09:40	Prof Mashudu Tshifularo, ENT specialist, University of Pretoria, Steve Biko academic Hospital: The role of 3D technology in medicine prosthesis (personal experience)	
10:10	Questions and answers	
10:20	TEA/COFFEE BREAK	
	Room 3: Additive Manufacturing	
	Session Chair: CP Kloppers	
	Theme: Product Development	
	Title	Presenter
10:40	Topology Optimisation for Mass Reduction in Additively Manufactured Rocket Engine Propellant Pumps	Byron Blakey-Milner
11:00	Geographical education of the visually impaired using Braille system on physical models	Sanat Agrawal
11:20	An AM solution to a golfing predicament – a bespoke golf putter head and hosel with multiple configuration options for personalized club fitment	Wian van Aswegen
	INDUSTRY PRESENTATIONS	
	Title	Presenter
11:40	Aditiv Solutions: Hyrax: South African Developed Commercial Metal 3D printer	Marius Vermeulen
11:50		
12:00	WORKSHOP by AEROSUD	
12:10		
12:20	What does it take to build a successful business in South Africa?	Mike Struthers
12:30	What does it take to be an entrepreneur or an intrapreneur?	
12:40		
12:50		
10:30	LUNCH BREAK	
	Room 3: Industry Presentations	
	Title	Presenter
14:00	CSIR: Showing industry the benefits of using Additive Manufacturing	Duwan Bester
14:10	Weartech: Weartech's product range including visual and audio inserts	Simon Wintle
14:20	SIMTEQ: The end-to-end solutions Hexagon Manufacturing bring to the additive manufacturing world with its Design and Engineering software (MSC Software)	Zak Fourie
14:30		
14:40	CUT: Overview of the Centre for Rapid Prototyping and Manufacturing	Letsoalo Letsoalo
14:50	VUT: Overview of Vaal University of Technology Rapid Manufacturing Services	David Mauchline
15:00	Reach 3D: The effect of material quality with print settings on FDM printers	Cornelius van der Steenhoven
15:10	CALDEAZ: CALDEAZ Manufacturing Equipment Can Offer You the Equipment To Do Rapid Product Development	Ludrick Barnard
15:20	CSIR: High power laser and 3D printer development at the CSIR	Darryl Naidoo
15:30	Ultimate Partner: Obstacles prevent businesses from taking full advantage of additive manufacturing (AM)	Nicholas Minnaar
15:40	TEA/COFFEE BREAK	
16:00	PLENARY SESSION: Chair: Prof Ian Campbell	
16:00	Keynote Address: Dr Terry Wohlers, president of Wohlers Associates, Inc.: A Maturing Industry Advancing to the Next Level	
16:30	Questions and answers	
16:40	CLOSURE	
17:00	RAPDASA ANNUAL GENERAL MEETING	
19:00	GALA DINNER (CSIR ICC EXHIBITION HALL)	