

## Industry Programme RAPDASA 2021 **Wednesday 3 November 2021**

TIME	DAY 1	
	<b>Plenary and Keynote Sessions are in Room 1 and are not part of the industry presentations track</b> <b>Register at <a href="https://site.rapdasa.org/rapdasa-conference-registration">https://site.rapdasa.org/rapdasa-conference-registration</a> to access the full conference</b>	
09:00	Welcome and opening – Chairperson RAPDASA 2021 Mr Marius Vermeulen	
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	
	<b>ABSTRACTS AT: <a href="https://site.rapdasa.org/conference-programme/">https://site.rapdasa.org/conference-programme/</a></b>	
	<b>PLEASE NOTE INDUSTRY TRACK ROOM CHANGES</b> <b>WEDNESDAY ROOM 4 (Crystal/Garnet/Onyx)</b> <b>THURSDAY ROOM 3 (Ruby)</b>	
	<b>Room 4: (Crystal/Garnet/Onyx)</b>	
	Title	Presenter
11:30	<b>CSIR:</b> Welcome and Opening of the Industry Sessions	Hencharl Strauss
11:40	<b>EPIC:</b> Introduction to the European Photonics Industry Consortium	Auri Ripoll
11:50	<b>Elogium:</b> The Role of Super Polymers to Improve the OEE of Operations	W. H. Harmse
12:00	<b>HH industries:</b> Aiding companies with research and development, production, process improvements, and training in AM.	Devon Hagedorn-Hansen
12:10	<b>CSIR:</b> OCT as a tool for quality assurance or surveillance	Ann Singh
12:20	<b>Akhani 3D:</b> The Disruption of Economies of Scale	Nik Ivanovic
12:30	<b>SIMTEQ:</b> 18 costly challenges of Additive Manufacturing and how to prevent them.	Paul Naude
12:40		
12:50		
13:00	LUNCH BREAK	
	<b>Room 4: Industry Presentations</b>	
	Title	Presenter
14:00	<b>Mintek:</b> Powder Metallurgy at the Physical Metallurgy Group at Mintek	Hein Möller
14:10	<b>NECSA:</b> Metal, alloy and ceramic powders for Additive Manufacturing produced by Thermal Plasma Spheroidisation	Hertzog Bissett
14:20	<b>NWU:</b> Comprehensive control measures to reduce AM operators to possible health risks	Sonette du Preez
14:30	<b>Aerosud:</b> Identify the correct tool to solve your problem	Frederik Steyn
14:40		
14:50	<b>Ultimate Partner:</b> Leveraging data to improve manufacturing	Jonathan Krusekopf
15:00	<b>Multitrade 3D Systems:</b> Authorised sales partner for GE Additive AM machines in South Africa	Devon Hagedorn-Hansen
15:10	<b>AMTC:</b> Additive Manufacturing 2.0: The future of metal manufacturing starts now with Desktop Metal	Roscher van Tonder
15:20	<b>BunnyCorp:</b> Rapid Product Development and training for automotive, implants and jewellery	Philip van der Walt
15:30	<b>CSIR:</b> Locally developed high power laser solutions for advanced manufacturing systems	Cobus Jacobs
15:40	TEA/COFFEE BREAK	
	<b>Room 4: Industry Presentations</b>	
	Title	Presenter
16:00	<b>Simufact, Germany:</b> A brief display of the different product lines Simufact has to offer in the virtual prototyping environment	Michel Pereme
16:10		
16:20	<b>MerSETA Viro-Vent:</b> 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	
	<b>Plenary and Keynote Sessions are in Room 1 and are <u>not</u> part of the industry presentations track</b> <b>Register at <a href="https://site.rapdasa.org/rapdasa-conference-registration">https://site.rapdasa.org/rapdasa-conference-registration</a> to access the full conference</b>	
08:00	Opening and Welcome: Chairperson RAPDASA 2021 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	
	<b>ABSTRACTS AT: <a href="https://site.rapdasa.org/conference-programme/">https://site.rapdasa.org/conference-programme/</a></b>	
	<b>PLEASE NOTE INDUSTRY TRACK ROOM CHANGES</b> <b>WEDNESDAY ROOM 4 (Crystal/Garnet/Onyx)</b> <b>THURSDAY ROOM 3 (Ruby)</b>	
	<b>Room 3:</b> (Ruby) Additive Manufacturing	
	Session Chair: CP Kloppers	
	Theme: Product Development	
	<b>Title</b>	<b>Presenter</b>
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
	<b>INDUSTRY PRESENTATIONS</b>	
	<b>Title</b>	<b>Presenter</b>
11:40	<b>Aditiv Solutions:</b> Hyrax: South African Developed Commercial Metal 3D printer	Marius Vermeulen
12:00	<b>WORKSHOP by AEROSUD</b> What does it take to build a successful business in South Africa? What does it take to be an entrepreneur or an intrapreneur?	Mike Struthers
13:00	LUNCH BREAK	
	<b>Room 3:</b> Industry Presentations	
	<b>Title</b>	<b>Presenter</b>
14:00	<b>CSIR:</b> Showing industry the benefits of using Additive Manufacturing	Duwan Bester
14:10	<b>Weartech:</b> Weartech's product range including visual and audio inserts	Simon Wintle
14:20	<b>SIMTEQ:</b> 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	<b>CUT:</b> Overview of the Centre for Rapid Prototyping and Manufacturing	Letsoalo Letsoalo
14:50	<b>VUT:</b> Technologies and services available at the Vaal University of Technology	David Mauchline
15:00	<b>Reach 3D:</b> The effect of material quality with print settings on FDM printers	Cornelius van der Steenhoven
15:10	<b>CALDEAZ:</b> CALDEAZ Manufacturing Equipment Can Offer You the Equipment To Do Rapid Product Development	Ludrick Barnard
15:20	<b>CSIR:</b> High power laser and 3D printer development at the CSIR	Darryl Naidoo
15:30	<b>Ultimate Partner:</b> Convergent Technology - A key enabler for the efficient design of AM products	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: Room 1 (Diamond)	
19:00	GALA DINNER (CSIR ICC EXHIBITION HALL)	