



Rapid Product Development  
Association of South Africa

Vaal University of Technology is  
proud to announce the 11<sup>th</sup> annual  
RAPDASA conference on  
5 & 6 November at the  
Riverside Hotel, Vanderbijlpark

2010's conference will focus on Design Input for Rapid Prototyping and Additive Manufacturing, and the conference aims to increase industrial participation.

Local and International experts in design, product development and additive manufacturing are lined up to share best practices in related application fields;

Representatives from Stratays, EOS, Objet, 3D Systems, Materialise, Envisiontec, Solido, Bits From Bytes and ZCorp will exhibit or be available for enquiries and various national competence centers will exhibit;

As in the past, Dr Terry Wohlers, President of Wohlers Associates will discuss international trends and new developments:  
<http://wohlersassociates.com/speak.html>

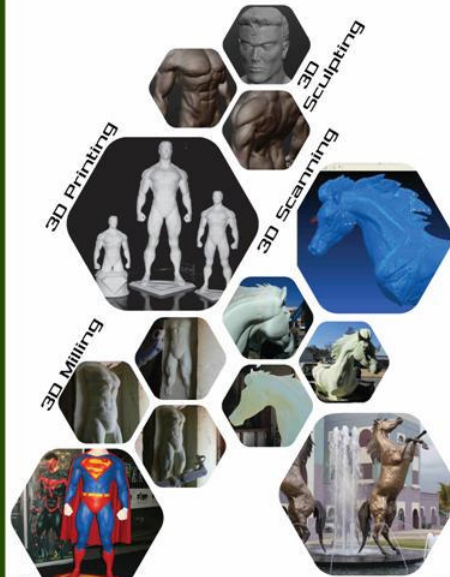


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### Process Chain



### Thank You To Our Sponsors & Partners:



VUT takes pride in announcing that the RAPDASA Conference has been awarded  
ECSA CPD accreditation

<b>FRIDAY, 5 NOVEMBER 2010</b>		
07:30	<b>Registration</b>	
08:00 - 08:15	<b>Opening and Welcome Session 1: Chair: DJ de Beer</b>	<b>Prof A Louw:</b> DVC Academic and Research: <b>VUT</b>
08:20 – 09:05	<b>Design Innovation Creates Opportunities for Economic Growth</b>	<b>T Wohlers,</b> President: Wohlers Associates, Colorado, <b>USA</b>
09:10 - 09:55	<b>From Concept to Cash</b>	<b>W Van Straaten:</b> CEO, Inventec, <b>SA</b>
10:00	<b>Refreshments</b>	
<b>Design Session 1 (Track A): Chair:</b>		
10:20 – 10:45	<b>Advances in Aviation Requires Advances in Technology</b>	<b>R Bakker:</b> Technical Director: ADEPT Airmotive, <b>SA</b>
10:50 – 11:15	<b>Optimising Consumer Involvement in Industrial Design</b>	<b>RI Campbell:</b> Director: Design Research Group, Loughborough University <b>UK</b>
11:20 12:05	<b>The Role of RP in the Design of Global Products</b>	<b>T Calantzis:</b> CEO: Terrestrial, <b>SA</b>
12:10– 12:35	<b>The Value Added and Need for Professional Industrial Design in SA</b>	<b>P Dreyer:</b> MD/Owner – KM Product Design, <b>SA</b>
12:40– 13:05	<b>Applied Fundamentals of Design for Manufacture (DFM) in the Digital Environment</b>	<b>W Gerber:</b> Programme Leader, Process Development, Aerosud, <b>SA</b>
13:05	<b>Lunch</b>	
<b>Design Session 2 (Track A) Chair:</b>		
14:05 – 14:40	<b>Creating Art and Design using Additive Fabrication in South Africa</b>	<b>M Jansen van Vuuren:</b> MD/Owner: Nomili Design, <b>SA</b>
14:45 – 15:10	<b>Free Form Design for Direct Digital Manufacturing for the Jewellery Industry</b>	<b>J Laing:</b> Director: Hybrid Advanced Geometries <b>SA</b>
15:15	<b>Refreshments</b>	

15:30 – 15:55	<b>Design for e-Manufacturing</b>	<b>P van der Walt / D Mauchline,</b> Design Centre, VUT TS, <b>SA</b>
16:00 – 16:25	<b>Design Optimization for Defense Ready (Direct Digital) Manufacturing</b>	<b>P du Plessis:</b> SAAB Electronic Defense Systems, <b>SA</b>
16:30 – 16:55	<b>To be announced</b>	<b>To be announced</b>
<b>Application / Research Session 1 (Track B): Chair:</b>		
10:20 – 10:45	<b>Technical Presentation</b>	<b>J Kleynhans:</b> DemaPlasTech, <b>SA</b>
10:50 – 11:15	<b>Gaining acceptance for AM Technologies in the Wind Tunnel Environment and the Way Forward</b>	<b>R Bryson:</b> Wind Tunnel Design Engineer: Denel Dynamics <b>SA</b>
11:20 12:05	<b>Benefits of Rapid Prototyping in Wind Tunnel Testing</b>	<b>P Potgieter (Jnr):</b> Aerosud, <b>SA</b>
12:10– 12:35	<b>Application of AM Technologies in the Consumer Electronics Industry</b>	<b>A Viljoen:</b> Mechanical Design Engineer, Altec UEC <b>SA</b>
12:40– 13:05	<b>Alumide Tooling in Forming Process Development</b>	<b>A Uys:</b> Aerosud, <b>SA</b>
<b>Lunch</b>		
<b>Application / Research Session 2 (Track B): Chair:</b>		
14:05 – 14:40	<b>Direct Conversion of GIS surface data to 3D STL for terrain modeling by AM Technologies</b>	<b>S Agrawal:</b> JUET Guna, M.P., <b>India</b>
14:45 – 15:10	<b>Additive Manufacturing of Metals: State of the Art</b>	<b>S Kumar,</b> NLC, CSIR <b>SA</b>
15:15	<b>Refreshments</b>	
15:30 – 15:55	<b>Additive Manufacturing at the National Laser Centre (NLC)</b>	<b>C Smal:</b> NLC, CSIR <b>SA</b>
16:00 – 16:25	<b>Fossil Free Transport – A Reality in SA?</b>	<b>RJ Bond:</b> Manager IAT TUT, <b>SA</b>
16:30 –	<b>To be announced – Possibly Mr Rudolf Louw</b>	

16:55		
17:00 - 18:00	<b>RAPDASA – AGM</b>	
18:30	<b>GALA DINNER: ROCK THE BOAT!</b>	

<b>SATURDAY, 6 NOVEMBER 2010</b>		
07:30	Registration	
	<b>Chair:</b>	
08:00 – 08:25	<b><i>A Decade of RAPDASA in South Africa – Perspectives on its Impact</i></b>	<b>W du Preez:</b> Manager: Metals and Metals Processes: CSIR, <b>SA</b>
08:30 – 08:55	<b><i>AM Enables Interdisciplinary Cooperation in Medical Developments</i></b>	<b>I Drstvensek:</b> Production Technologies and Maintenance, University of Maribor, <b>Slovenia</b>
09:00 – 09:25	<b><i>Overview of the Support Programme for Industrial Innovation (SPII) from the Industrial Development Corporation (IDC)</i></b>	<b>N Pires:</b> Chief Executive: Business Development, <b>SA</b>
09:30 – 09:55	<b><i>Evaluating the economics of AM in the product development regime for the SMMEs under SPII</i></b>	<b>N Mthembu:</b> Programme Manager: SPII, IDC, <b>SA</b>
10:00 – 10:20	<b><i>Refreshments</i></b>	
10:20- 10:45	<b><i>Combining AM and Conventional Machining Technologies to develop a Hybrid Tooling Approach</i></b>	<b>GJ Booysen:</b> Manager CRPM, CUT, <b>SA</b>
<b>OEM Session 1: Chair:</b>		
10:50 – 11:15	<b><i>Stratasys: Additive Manufacturing Possibilities and Examples</i></b>	<b>P Gately:</b> Stratasys, <b>UK</b>
11:20 – 11:45	<b>OEM Presentation: 3D Systems</b>	<b>J Delanoue:</b> European Customer Support Manager 3DSystems, <b>France</b>
11:50 – 12:15	<b>OEM Presentation: Bits From Bytes (BFB)</b>	<b>I Adkins:</b> Managing/Technical Director: Bits From Bytes, <b>UK</b>
12:20 – 12:45	<b><i>EOS innovations for e-manufacturing</i></b>	<b>P Rosker:</b> Area Sales Manager: EOS, <b>Germany</b>
12:50 – 13:15	<b>OEM Presentation: Objet Geometries</b>	<b>L du Toit:</b> DemaPlasTech, <b>SA</b> <b>Objet Geometries:</b> (Possible speaker to be announced), <b>Israel</b>
<b>13:15</b>	<b>Lunch</b>	

	<b>OEM Session 2 : Chair:</b>	
14:15 – 14:40	<b><i>Envisiontec – The Solution for Detailed Parts</i></b>	<b>LJ Barnard:</b> Acting Director: PDTS, CUT, <b>SA</b>
14:45 – 15:10	<b><i>OEM Presentation: Solido</i></b>	<b>R van der Walt:</b> Enserve, <b>SA</b>
15:15 – 15:40	<b><i>The Role of Software in the RP&amp;M Process</i></b>	<b>F Declerk:</b> Materialise NV, <b>Belgium</b>
15:40 – 16:00	<b><i>Refreshments</i></b>	
16:05 – 16:30	<b><i>OEM Presentation: ZCorp</i></b>	<b>G Leggott,</b> Rapid 3D, <b>SA</b>
16:30 – 17:15	<b><i>Planned OEM Panel Discussion</i></b>	
17:20 – 17:40	<b><i>Introduction to the newly launched SA Institute of Inventors and Innovators (III)</i></b>	<b>R Moodley:</b> CEO: Institute of Inventors and Innovators, <b>SA</b>
17:45	<b><i>Closing</i></b>	
<b>18:00</b>	<b><i>DINNER: BARBEQUE @ RIVERSIDE!</i></b>	

*Please note that by the time of release of the programme, some information was still outstanding, and which, when available, might effect some changes in the programme.*

***Many thanks***

***Deon de Beer:  
Conference Chair***