



Professor Milan Brandt

Additive Manufacturing Applications Research at RMIT

**Webinar
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With the advent of greater demand for online training, HERA, IIW-India, SAIW and the CWB Association are cooperating and collaborating to transfer the knowledge and experience of world experts into as many countries on a global basis.

The four organisations will arrange for webinars and eCourses to be presented by such world experts to meet the challenges of different time zones, the need to assist individuals and industries to optimise their training times as well as improve their national welding capabilities.

You can make enquiries and bookings with each organisation offering the webinar or course most suitable for your needs.

Links for registration are given later in this brochure.

This presentation is brought to you by:

Distinguished Professor Milan Brandt

Director Centre for Additive Manufacturing
Director Advanced Manufacturing Precinct
RMIT University, Victoria, Australia

Contacts at each organisation for more detailed discussion on all future eCourses to be organised are:

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Additive Manufacturing Applications Research at RMIT



Distinguished Professor Milan Brandt

Director Centre for Additive Manufacturing
 Director Advanced Manufacturing Precinct
 RMIT University, Victoria, Australia

Abstract

Additive manufacture also referred to as 3D printing is now playing an increasing role in a range of industries globally such as the aerospace, automotive and medical because it enhances the ability to fabricate more complex and more functional component parts. It utilizes technologies both metal and polymer to mass manufacture components directly from computer generated data. The products are grown/printed layer by layer without the need for many time-consuming manufacturing processes such as tooling, line set up or material change over. Fully functional parts or products are able to be produced, on an as needed basis, with many different components able to be built at the same time dramatically accelerating product's time to market and reducing the cost of production. COVID-19 has provided further impetus for industries and countries to consider and adopt additive manufacturing to mitigate supply chain risks, increase sovereign capability and improve national security.

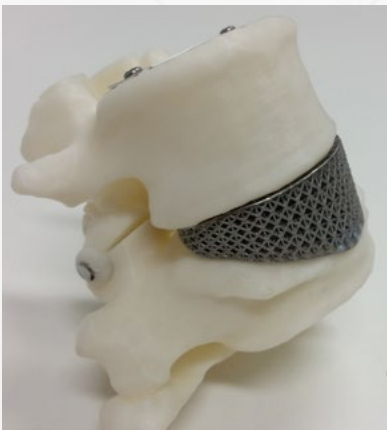
RMIT University recognised early the potential that additive manufacturing offered local industry and established the Centre for Additive Manufacturing in 2014 to support Australia's manufacturing industry and boost the delivery of skills for this important sector of the economy.

The presentation will cover the mission and vision for the Centre, its facilities, the basis for interaction with industry and discuss several current research projects.

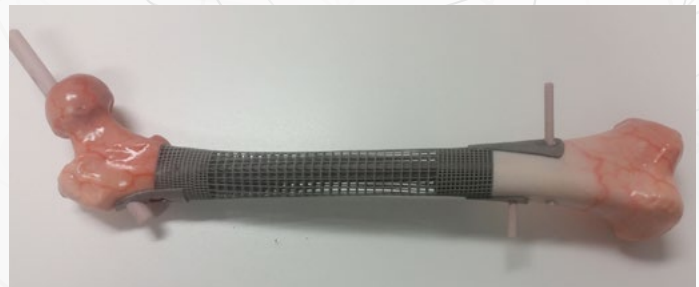
Bio – Milan Brandt

Distinguished Professor Milan Brandt is the Director of RMIT Advanced Manufacturing Precinct and Director Centre for Additive Manufacturing, RMIT University which he established in 2013. Prof. Brandt is the lead Australian researcher in the area of macro machining and additive manufacturing with lasers and has conducted work in laser cladding, cutting, drilling, welding and the last 14 years additive manufacturing. This has resulted in technological achievements, patents, research papers and commercial products, which have been recognized internationally and nationally in both scientific and industrial circles. Prof. Brandt is a Fellow of the Laser Institute of America, Honorary Fellow of Weld Australia, Professorial Fellow department of Medicine, Melbourne University and Adjunct Prof. University of Waterloo, Canada. In 2018 he was the President of the Laser Institute of America, the largest international association of researchers and industry involved with lasers and laser additive technology and in 2019 he was named the

Engineers Australia Centenary Hero for his research which led to Australia's first locally-manufactured 3D printed spinal implant that was implanted into a patient. In 2020 Prof. Brandt was the recipient of the Laser Institute of America's Arthur. L. Schawlow award for his contributions to lasers and laser applications.



First 3D printed titanium spinal disc in Australia that was implanted into a patient in 2016.



3D printed implant Titanium for patients with bone cancers.

WHERE and WHEN:

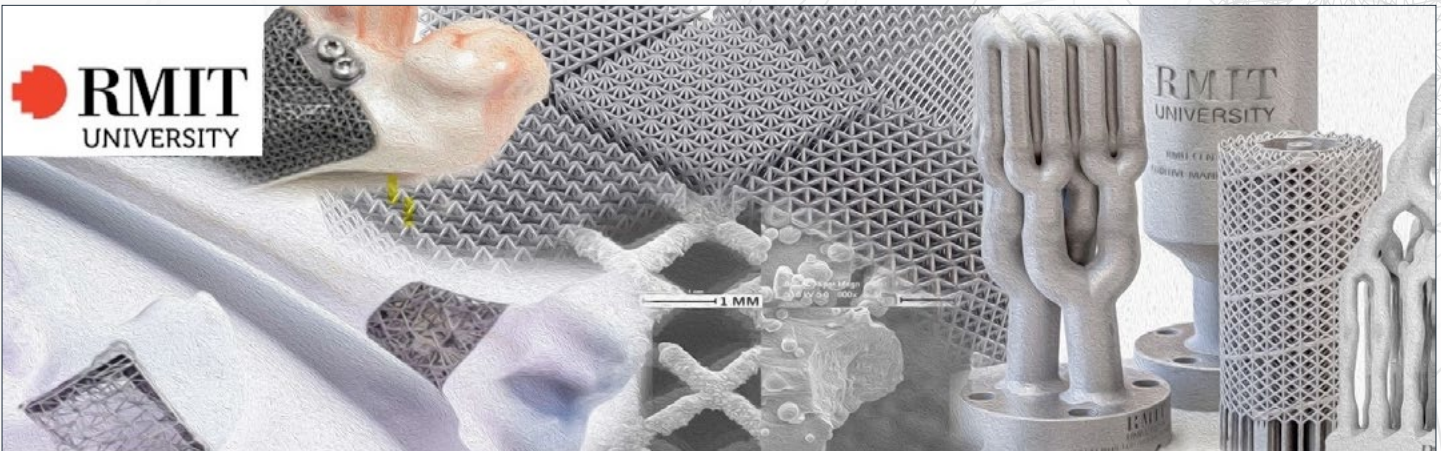
The WEBINAR will be of one and a half hours duration including half an hour for questions and discussion. It will be held on four separate occasions to accommodate the four different regions of the globe: The Americas; Africa and Europe; Indian sub-continent and the Middle East, Asia and Australasia.

WHO SHOULD ATTEND?

Personnel of all types and at all levels in manufacturing, fabrication, construction, maintenance, standards, regulatory, education, training and research organisations are welcome to attend. Delegates are welcome to bring along their questions to contribute to discussions and positive outcomes.

WHAT INDUSTRY SECTORS IS THE WEBINAR RELEVANT FOR?

All welding related industry sectors will benefit from involvement in the webinar.



RMIT CENTRE FOR ADDITIVE MANUFACTURING

Focusing on research in design for additive manufacturing, laser technologies and materials science.

Keywords: *Additive Manufacturing, RMIT.*

AMERICAS – ORGANISER CWB ASSOCIATION

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	Tuesday 16 April 2024	Toronto 18:00-19:30 Brazil... .. 19:00-20:30 Chile 19:00-20:30

- **Registration Link:**
<https://www.eventbrite.ca/o/cwb-association-33898968275>

CLICK HERE TO REGISTER

AFRICA and EUROPE – ORGANISER SAIW

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	Thursday 18 April 2024	Johannesburg 12:00-13:30 Genoa. 12:00-13:30 Istanbul... 13:00-14:30 London 11:00-12:30

- **Registration Link:**
<https://www.saiw.co.za/win-webinar-additive-manufacturing-research-at-rmit-presented-by-professor-milan-brandt-18-april-2024/>

CLICK HERE TO REGISTER

ASIA and AUSTRALASIA – ORGANISER HERA

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	Friday 19 April 2024	Auckland 14:00-15:30 Melbourne 12:00-13:30 Perth and Singapore... 10:00-11:30 Seoul and Tokyo 11:00-12:30

- **Registration Link:**
<https://www.hera.org.nz/event/additive-manufacturing-research/>

CLICK HERE TO REGISTER

SAARC and MIDDLE EAST – ORGANISER IIW-INDIA

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	Monday 22 April 2024	India 10:30-12:00 Bangladesh 11:00-12:30 Saudi Arabia... .. 08:00-09:30 UAE 09:00-10:30

- **Registration Link:**
<https://tinyurl.com/y9x4shcc>

CLICK HERE TO REGISTER

Register Today – To register, follow the registration links above.

Cost – The webinar is free to all applicable areas. Membership may be required.

Cancellations – *Please note:* The organisers reserve the right to cancel the webinars due to insufficient registrations or other reasons beyond their control, as well as altering the programme if they deem it necessary. The organisers also have the right to refuse registrations.

Stay tuned for future webinars and courses by WIN!!