

You are cordially invited to the Philip Doubell Memorial Lecture

Date: Thursday, 25 October 2018
Time: 18:00 for 18:30 (*light refreshments will be served after the lecture*)
Venue: Eskom Academy of Learning, Ian McRae Auditorium, Dale Road, Midrand, Gauteng
Guest speaker: Professor Malcolm Neil James
Topic: South African research & platform development in industrial applications of welding
RSVP: lucinda.lindsay@mandela.ac.za by 11 October 2018
(*please indicate any special dietary requirements*)

The intention of this lecture is to honour Philip Doubell as an iconic figure who played a significant role in the South African welding community and his momentous contribution to the welding industry.

Philip began his career at Eskom in 1987 where he worked for over 30 years. While at Eskom, he obtained a Metallurgical Engineering degree from the University of Pretoria and then a Masters degree in Welding Engineering from Wits. In 2003 he completed the IIW's IWE diploma – then only the fourth person in South Africa to obtain this highly coveted international qualification. Philip was well known in the industry for his innovative thinking 'outside the box' and developed a reputation not only in South Africa, but also more widely in the world for his innovative novelty. Philip developed a number of new ideas and technologies and holds several patents associated with novel technologies, including the innovative WeldCore® process technique which he developed together with the eNtsha team from Nelson Mandela University. Philip was the recipient of SAIW's Harvey Shacklock Gold Medal Award in 2006 and 2018. He presented many technical papers at SAIW and other welding conferences. He was a key contributor to the Technical Committee for Welding at the SABS and travelled a number of times to ISO meetings to represent South Africa's interests at these international forums. He was an inspiration to many people, but especially to young engineers who crossed his path whom he helped develop into competent engineers and he could always be relied on to help where there was a need.

About the speaker Professor Malcolm Neil James

Prof James has been Professor of Mechanical Engineering at University of Plymouth since 1996 and his research interests lie in design for structural integrity, covering the fields of fatigue and fracture, residual stresses, fatigue life prediction and welded joints. He has variously been Dean of Technology, Pro-Vice Chancellor and Head of the School of Marine Science & Engineering/Associate Dean. He was educated at Allan Wilson Technical High School, Harare, Zimbabwe; holds a BSc(Eng) degree in Mechanical Engineering (Cum Laude) from the University of the Witwatersrand, Johannesburg; a PhD in Metallurgy and Materials Science from the University of Cambridge, England; a DTech (Honoris Causa) from Port Elizabeth Technikon, South Africa, and a DSc(Eng) from the University of the Witwatersrand, Johannesburg. Prof James holds, or has held, Visiting or Honorary Professorial appointments at Sheffield-Hallam University, Southwest Jiaotong University, Chengdu, China, Nelson Mandela University, Port Elizabeth, South Africa and the University of Ferrara, Italy. He has been an Editor of the International Journal of Fatigue (Elsevier Science) since 1998, is an Editorial Board member of Engineering Failure Analysis (Elsevier Science) and Frattura ed Integrità Strutturale - the International Journal of the Italian Fracture Group. He has authored/co-authored more than 160 research publications in refereed International Journals and Conference Proceedings, and have received several awards related to these publications, e.g. Silver Medal of the SAIMEchE (1986). He has given numerous invited Plenary or Keynote lectures at International Conferences on aspects of this work and has significant experience acting as a failure analyst and metallurgical consultant, generating some 160 reports over the last 30 years. This work has ranged over advising on fatigue design, through determining mechanisms and causes of failure in mechanical equipment, plant and structures, to metallurgical assessment, corrosion problems, fatigue life and fracture toughness testing. He has acted as an Expert Witness in court cases, and as a forensic engineering consultant to industry and legal firms in a number of countries, including the UK, USA, South Africa, Netherlands, Australia and New Zealand.

**The lecture is hosted by the Nelson Mandela University,
in collaboration with the University of Plymouth, Eskom, Sasol and SAIW.**

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