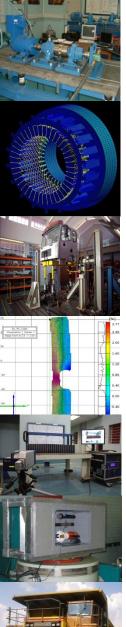


## Invitation to Research Seminar: 23 April 2012 Physical Asset Management and Condition Monitoring



Engineering companies are increasingly realising the importance of the optimal management of their physical assets on company return on investment. At the same time there is also a growing awareness of the role that condition monitoring and assessment can play to enhance the reliability, availability, maintainability and safety of these assets and systems.

The University of Pretoria has a well-established research activity in this broad field, as well as very strong interactions with industry. To further stimulate research interest and awareness in Physical Asset Management and Condition Monitoring (PAM&CM) in South Africa, the University of Pretoria is pleased to invite you to attend a research seminar on the topic.

The seminar will be exploring some of the cutting edge research done at the university. We are however very pleased to also have a number of prominent academics and practitioners from other universities and companies who will participate, and help create productive and thought provoking interactions.

The seminar will be followed by cocktails in the Laboratory for Structural Mechanics in the Department of Mechanical and Aeronautical Engineering, where participants will have an opportunity to see the state-of-the art equipment in the laboratory in action.

You are cordially invited to attend. The seminar is free of charge, but we ask that you book with Marietjie Calder, and if you later find that you are unable to attend, that you please advise us as soon as possible.

**Contact**: Marietjie Calder, secretary to Prof Stephan Heyns e-mail: <u>marietjie.calder@up.ac.za</u> or tel: +2712 4202432 (8:00 to 13:00)

We need to finalise lunch arrangements and places are limited to 84, so booking is essential. You are however most welcome to forward the invitation to colleagues who might be interested, as long as they book too.

Venue:

SRC Hall //SR Raadsaal in the Conference Centre University of Pretoria, Pretoria, South Africa



For more details about the seminar go to: <u>http://web.up.ac.za/default.asp?ipkCategoryID=18453&subid=18453&ipklookid=7</u> and look under Events

## Programme: Research Seminar: Physical Asset Management and Condition Monitoring

## 23 April 2012

## SRC Hall UP Conference Centre and Laboratory for Structural Mechanics, University of Pretoria

Time	Торіс	Speaker
08:00	Registration	SRC Hall /VSR Raadsaal in the
		Conference Centre,
		University of Pretoria, Pretoria
		Building 50 on map. See link below
08:30	Welcome	Prof Sandenbergh
		(Dean of Engineering, University of
		Pretoria)
	<b>Physical Asset Management &amp; Condition</b>	Prof Stephan Heyns
	Monitoring at the University of Pretoria	(Department of Mechanical and
		Aeronautical Engineering, University of
		Pretoria)
08:50	Keynote address:	Prof Diego Galar
	Integration of condition monitoring data	(Department of Civil, Environmental and
	in decision support systems for asset	Natural Resources Engineering,
	management: A fusion approach	Operation, Maintenance and Acoustics,
		Lulea University of Technology, Sweden)
09:20	Maintenance outcomes modelling and the	Prof Jasper Coetzee
	substantiation of maintenance budgets.	(Department of Mechanical and
		Aeronautical Engineering, University of
		Pretoria)
09:50	The Engineering Asset Management	Prof Joe Amadi-Echendu
	Paradigm and Its Imperatives	(Graduate School of Technology
		Management, University of Pretoria)
10:20	PAS55 and ISO55000	Alan Tait
		(PRAGMA)
10:50	Теа	
11:00	Asset Management using Modelling and	Prof Krige Visser
	Simulation Tools and Techniques	(Graduate School of Technology
		Management, University of Pretoria)
11:40	Reliability Analysis of complex mechanical	Prof Sarma Yadavalli
	systems	(Department of Industrial and Systems
		Engineering, University of Pretoria)
12:10	Condition Monitoring Using	Prof Tshilidzi Marwala
	Computational Intelligence	(Dean of Engineering, University of
		Johannesburg)
12:40	The PAM&CM academic programme in	Dr Coenie Thiardt and Dr Barend Botha
	Mechanical Engineering	(Department of Mechanical and
		Aeronautical Engineering, University of
13:00	Finger lunch	Aeronautical Engineering, University of Pretoria)

13:40	Gear vibration monitoring under	Prof Stephan Heyns
	fluctuating conditions	(University of Pretoria)
		Theo Heyns (CSIR: MSM, SST)
14:10	Automated diagnostics and prognostics	Peter Schön
		(Department of Mechanical and
		Aeronautical Engineering, University of
		Pretoria)
14:30	Vibration monitoring in power generation	Dr Abrie Oberholster
		(Department of Mechanical and
		Aeronautical Engineering , University of
		Pretoria)
14:50	Haul Road condition monitoring	Harry Ngwangwa
		(Department of Mechanical and
		Industrial Engineering, UNISA)
		Theo Heyns (CSIR: MSM, SST)
15:10	<b>Response Reconstruction for fatigue</b>	Jan Eksteen and Prof Stephan Heyns
	testing	(University of Pretoria)
15:30	Laboratory for Structural Mechanics	Prof Stephan Heyns
		(University of Pretoria)
16:00 -	Lab visit and cocktails	Building 15 on map.
18:00		Delegates who are interested can walk
		together (about 10 minutes) while we
		show you part of the campus and tell
		you something about its history.
		Alternatively you can drive. We will
		provide full details at the seminar.

Link to campus map:

http://web.up.ac.za/sitefiles/file/Maps&Directions/2012/Hatfieldkampus.pdf