



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA
Denkleiers • Leading Minds • Dikgopolo tša Dihlalefi

16 Mei 2012 • 16 May 2012 • 16 Mopitlo 2012

Die Visekanselier en Rektor van die Universiteit van Pretoria

prof Cheryl de la Rey

nooi u hiermee vriendelik uit na die sewende lesing in die

UP-EKSPERTLESINGREEKS

"SWEISWERK - DIE ACHILLESHIEL VAN DIE SUID-AFRIKAANSE VERVAARDIGINGSBEDRYF?"

angebied deur prof Madeleine du Toit

Sweiswerk is steeds die belangrikste metaallastegnologie wat tans tot die vervaardigingsbedryf se beskikking is, met wydverspreide toepassing in velde so uiteenlopend soos mikroëlektronika, kragopwekking, struktuurontwerp en die petrochemiese bedryf. Terwyl globale aanvraag na volgehoue hoëkwaliteit-sweislasse in 'n wye verskeidenheid gevorderde materiaal en toepassings steeds groei, is die Suid-Afrikaanse vervaardigingsbedryf tans so geposisioneer dat dit voordeel kan trek uit die geleentheid wat gebied word?

Madeleine du Toit is Professor en Hoof van die Departement Materiaalkunde en Metallurgiese Ingenieurswese aan die Universiteit van Pretoria. Sy het die grade BEng, MEng en PhD in Metallurgiese Ingenieurswese aan die Universiteit van Pretoria en 'n tweede MEng-graad in Sweiswerkingenieurswese aan die Universiteit van die Witwatersrand behaal. Sy is by die Ingenieursraad van Suid-Afrika (ECSA) as Professionele Ingenieur en by die Internasionale Instituut vir Sweiswerk as Internasionale Sweisingenieur (IWE) geregistreer. Sy is 'n genoot van die Suid-Afrikaanse Akademie vir Ingenieurswese en dien tans as President en lid van die Raad van die Suider-Afrikaanse Instituut vir Sweiswerk (SAIW).

Die **UP-EKSPERTLESINGREEKS** verskaf 'n openbare platform vir navorsers van die Universiteit van Pretoria om met 'n algemene gehoor te kan praat oor beduidende ontwikkelings in hul vakgebiede wat waarskynlik in die toekoms 'n invloed op die gebied gaan hê.

Ons nooi u uit om aan UP se uurlange **EKSPERTLESINGREEKS** deel te neem en deur die Universiteit se navorsingsuitset verryk te word.

Datum: Woensdag 16 Mei 2012
Tyd: 17:00
Plek: Plantwetenskappe-kompleks (roetekaart aangeheg), Hatfieldkampus, Pretoria
GPS-koördinate: S25° 45' 21" O28° 13' 51"
RSVP: Voor of op 9 Mei 2012 by uprsvp3@up.ac.za

The Vice-Chancellor and Principal of the University of Pretoria

Prof Cheryl de la Rey

cordially invites you to attend the seventh lecture in the

UP EXPERT LECTURE SERIES

"WELDING - THE ACHILLES HEEL OF THE SOUTH AFRICAN MANUFACTURING INDUSTRY?"

presented by Prof Madeleine du Toit

Welding remains the most important metal joining technology available to the manufacturing industry today, with widespread application in fields as diverse as microelectronics, power generation, structural design and the petrochemical industry. While global demand for consistently high quality welds in a wide variety of advanced materials and applications continues to grow, is the South African manufacturing industry currently positioned to take advantage of the opportunities offered?

Madeleine du Toit is Professor and Head of the Department of Materials Science and Metallurgical Engineering at the University of Pretoria. She holds BEng, MEng and PhD degrees in Metallurgical Engineering from the University of Pretoria and a second MEng degree in Welding Engineering from the University of the Witwatersrand. She is registered with the Engineering Council of South Africa (ECSA) as Professional Engineer and with the International Institute of Welding as International Welding Engineer (IWE). She is a Fellow of the South African Academy of Engineering, and currently serves as President and member of the Council of the Southern African Institute of Welding (SAIW).

The **UP EXPERT LECTURE SERIES** provides a public platform for researchers of the University of Pretoria to engage with a general audience on significant developments in their fields of expertise that are likely to have an impact in future.

We invite you to participate in UP's 60-minute **EXPERT LECTURE SERIES** and be enriched by the University's research output.

Date: Wednesday, 16 May 2012
Time: 17:00
Venue: Plant Sciences Complex (map attached), Hatfield Campus, Pretoria
GPS coordinates: S25° 45' 21" E28° 13' 51"
RSVP: Before or on 9 May 2012 to uprsvp3@up.ac.za

Motlatšamokhanseliri le Hlogo ya Yunibesithi ya Pretoria

Prof Cheryl de la Rey

o go laletša ka lethabo go tsenela thutophahlošo ya bošupa mo

MELOKOLOKONG YA DITHUTOPHAHLOŠO TŠA DITSEBI UP

" GO MOMAGANYA - KE BOFOKODI BJA INTASTERI YA TŠWELETŠO YA AFRIKA-BORWA?"

ka Prof Madeleine du Toit

Go momaganya e dula e le theknolotši ya bohlokwahlokwa ya go kopanya ditšhipi yeo e lego gona ka intastering ya tšweletšo matšatšing a lehono, yeo e šomišwago kudu ka magorong a go fapafapana a mošomo a bjalo ka maekroelektronikse, pehlo ya mohlagase, tlhano ya dibopego le intasteri ya petrokhemikhale. Mola nyakego ya lefase ka bophara ya momaganyo ya boleng bja godimo bjo bo sa fokotšegogo ka ditirišong le dimetherialeng tša go fapafapana tšeo di tlhabolotšwego di tšwelapele go gola, na intasteri ya tšweletšo ya Afrika-Borwa gabjale e fihleletše maemo a go šomiša monyetla wo e o filwego?

Madeleine du Toit ke Profesa le Hlogo ya Kgoro ya Thutamahlale a Dimetheriale le Boentšenerere bja Methaletši ya Yunibesithi ya Pretoria. O na le ditikrii tša BEng, MEng le PhD ka Boentšenerere bja Methaletši go tšwa Yunibesithing ya Pretoria le tikrii ya bobedi ya MEng ka Boentšenerere bja Momaganyo go tšwa Yunibesithing ya Witwatersrand. Ke Moentšenerere wa Profešenale yo a ingwadišitsēgo le Khansele ya Boentšenerere ya Afrika-Borwa (ECSA) le Instištšute ya Momaganyo ya Boditšhabatšhaba bjalo ka Moentšenerere wa Momaganyo wa Boditšhabatšhaba (IWE). Ke mogwera moleloko wa Akatemi ya Boentšenerere ya Afrika-Borwa, gomme ga bjale o šoma bjalo ka Moprešidente le leloko la Khansele ya Instištšute ya Borwa bja Afrika ya Bomomaganyi (SAIW).

MELOKOLOKONG YA DITHUTOPHAHLOŠO TŠA DITSEBI UP e abela banyakišiši ba Yunibesithi ya Pretoria sebaka sa go boledišana le setšhaba ka kakaretšo ka ditlhabollo tša bohlokwa ka magorong a mošomo wa bona a tsebo ao a ka bago le khuetšo ka moso.

Re go laletša go tla go kgathatema ka **MELOKOLOKONG YA DITHUTOPHAHLOŠO TŠA DITSEBI** gore o tle o matlafatšwe ke dipoleo tša dinyakišišo tša Yunibesithi.

Tšatšikgwedi: Laboraro, 16 Mopitlo 2012
Nako: 17:00
Lefelo: Meago ya Thutamahlale a Dimela (mmepe o kgorameditšwe), Khamphase ya Hatfield, Pretoria
Ditaetšo tša GPS: S25° 45' 21" E28° 13' 51"
Phetolo: Pele ga goba ka la 9 Mopitlo 2012 go uprsvp3@up.ac.za