

**Program of the 6th International Conference in Laser Peening and Related Phenomena
6-11 November 2016, South Africa**

Sunday 6 November

Morning International flights landing at O.R. Tambo International Airport
(<http://www.acsa.co.za>)
Reaching accommodation at selected Rosebank Hotels
(<http://www.rosebankmall.co.za/> easy reached with Gautrain
<http://www.gautrain.co.za/> or metered taxi).

Registration Desks open at Hotel Foyers on arrival

Early Afternoon Individual activities: rest or visit of Rosebank Craft Market/Moyo Zoo Lake/Emmarentia Dam (<http://www.inyourpocket.com/johannesburg>)

h16:00 Buses to collect delegates at Rosebank and departure for Wits Main Campus

h16:30 Walking Tour of Wits Main Campus
(Wits: http://www.wits.ac.za/placesofinterest/17425/virtual_tours.html)

h18:30 **6th ICLPRP Conference Opening Reception at Wits Club**

(Wits Club: <http://www.wits.ac.za/witsclub/>)

Welcome by Prof. Zebulon Vilakazi, Wits Deputy Vice-Chancellor (Research & PG Affairs) and by Prof. Ian Jandrell, Wits FEBE Dean.

Monday 7 November

h07:00 Buses to collect delegates at Rosebank and departure for CSIR International Convention Centre, Pretoria (CSIR ICC: <http://www.csiricc.co.za/>)

h08:00 Registration Desk at Central Foyer

h08:30 **Welcome and Opening Remarks by:**

- Prof. Claudia Polese, Wits University, Conference Chair
- Mr Beeuwen Gerrits, DST Chief Director: Technology Localisation, Beneficiation and Advanced Manufacturing (tbc)
- Mr Hardus Greyling and Dr Pat Manders, Manager: CSIR National Laser Centre
- Prof. Mike Fitzpatrick, Coventry University, Conference Secretary and Technical Chair

Introduction and Acknowledgments: Who made Laser Peening possible in SA?

- Dr Domenico Furfari, AR&T Manager, Airbus Operations GmbH
- Dr Francois Prinsloo, Programme Manager, CSIR
- Mr Philip Haupt, Director, National Aerospace Centre

Venue: Ruby Auditorium

h10:15 Coffee break

h10:30 **SESSION 1: RESIDUAL STRESS & PROCESS PERFORMANCE**

Chair: Michael E. Fitzpatrick, Coventry University, United Kingdom

h12:45 Lunch at CSIR ICC deck

h13:45

- Technical Tour of CSIR National Laser Centre facilities for Group 1, Group 2 and Group 3 guided by Mr Daniel Glaser, Dr Bathusile Masina, Prof. Sisa Pityana
- Parallel FEA Process Optimization Workshop coordinated by Mr Lorenzo Benetton, Mr Francesco Franchini and Dr Danie de Kock

and

- Panel Discussion on Innovative Laser Fibre Delivery System coordinated by Prof. Andrew Forbes and Dr Danijela Rostohar

Venue: Building 46-National Laser Centre and Ruby Auditorium

h18:30 Buses to take delegates back to Rosebank
Free evening

Tuesday 8 November

h07:00 Morning: transfer to Skukuza Main Camp, Kruger National Park, with bus or flight (KNP: <http://www.sanparks.org/parks/kruger/> Skukuza Air: <http://skukuzaairport.com/>)
Lunch Box provided

h13:00 Arrival at Skukuza Nombolo Mdhuli Conference Centre and Skukuza accommodations
<http://www.sanparks.org/parks/kruger/groups/conferences.php#two>

SESSION 2: FATIGUE LIFE EXTENSION

Chair: Dr Omar Hatamleh, San Francisco, NASA

h16:00 Coffee Break

SESSION 3: NOVEL LASER SYSTEMS & METHODS

Chair: Prof. José L. Ocaña, Polytechnical University of Madrid and UPM Laser Center, Madrid, Spain

h19:00 Cocktail/Dinner Function at Skukuza Boma

Wednesday 9 November

h05:00 Morning Drive for Group 1

“LSP: the Origin” Keynote Presentation:

Dr Allan Clauer, LSP Technologies, United States

SESSION 4: PLASMA & LASER MATTER INTERACTION

Chair: Dr Bathusile Masina, CSIR National Laser Centre, Pretoria, South Africa

h10:00 Coffee Break

SESSION 5: SHOCK WAVES & PROCESS VISUALIZATION METHODS

Chair: Mr Daniel Glaser, CSIR National Laser Centre, Pretoria, South Africa

h12:00 Poster Introductions

h12:30 Lunch

“LSP: the Origin” Keynote Presentation

Dr Laurent Berthe, CNRS, France

SESSION 6: PROCESS MODELING & SIMULATIONS

Chair: Mr Francesco Pietra, University of Pretoria, Pretoria, South Africa

h15:30 Coffee Break

“LSP: the Origin” Keynote Presentation

Dr Yuji Sano, ImPACT, Tokyo, Japan

SESSION 7: NOVEL MONITORING TECHNOLOGIES & INDUSTRIAL APPLICATIONS

Chair: Prof. Arif Malik, University of Texas, Dallas, United States

h19:00 Dinner on Own at Cattle Baron
Optional Sunset Drive

Thursday 10 November

h05:00 Morning Drive for Group 2

“LSP: the Present” Keynote Presentation

Dr Lloyd Hackel, CWST Metal Improvement Company, Paramus, USA

SESSION 8: RELATED PHENOMENA

Chair: Prof. Sisa Pityana, CSIR National Laser Centre, Pretoria, South Africa

- h10:00 Coffee Break
- h10:15 **SESSION 9: MATERIAL HARDENING & MICROSTRUCTURAL CHARACTERIZATION**
Chair: Prof. Alexander Ziegler, MMU Wits, Johannesburg, South Africa
- h12:00 Poster Introductions
- h12:30 Lunch
- h13:30 **“LSP: the Present” Keynote Presentation**
Mr Pete Caruso (tbc), Lockheed Martin Aeronautics Company, Atlanta, USA or
Mr Jeff Dulaney(tbc), Laser Shock Peening Technologies, Dublin, USA
- SESSION 10: DEVELOPMENT IN AERONAUTICAL APPLICATIONS**
Chair: Dr Domenico Furfari, Airbus, Hamburg, Germany
- h15:30 Coffee Break
- h15:45 **“LSP: the Present” Keynote Presentation**
Dr Brent Dane, CWST Metal Improvement Company, Paramus, USA
- SESSION 11: INNOVATIVE & ALTERNATIVE PEENING TECHNOLOGIES**
Chair: Ms Elke Hombergsmeier, Airbus Group Innovations, Munich, Germany
- h17:00 Gala Dinner: Sunset Drive and Bush Braai
(<http://www.sanparks.co.za/parks/kruger/tourism/activities/braais.php>)

Friday 11 November

- h05:00 Morning Drive for Group 3
- h08:00 **“LSP: the Present” Keynote Presentation**
Dr David Jensen (tbc), Boeing, Seattle, USA or Dr Jeffrey O. Bunch (tbc), Boeing
Integrated Defense Systems, Seattle, USA
- SESSION 12: LIFE PREDICTION METHODS**
Chair: Dr Kristina Langer, Air Force Research Laboratory, Dayton, United States
- h10:00 Coffee Break
- h10:15 **“LSP: the Future” Keynote Presentation**
Dr Tommaso Ghidini (tbc), European Space Agency (ESA), Netherland
- SESSION 13: TRIBOLOGY, CORROSION AND STRESS CORROSION**
Chair: Prof. Janez Grum, Faculty of Mechanical Engineering, Ljubljana, Slovenia
- h12:00 Poster Introductions
- h12:30 Lunch
- h13:30 **“LSP: the Future” Keynote Presentation**
Dr Domenico Furfari, Airbus Operations GmbH, Hamburg, Germany
- SESSION 14: DEVELOPMENT IN LASER COMMERCIAL SYSTEMS**
Chair: Prof. Seetha Ramaiah Mannava, University of Cincinnati, United States
- h15:30 Coffee Break
- h15:45 **“LSP: the Future” Keynote Presentation**
Dr Danijela Rostohar, HiLASE, Prague, Czech Republic
- SESSION 15: DEVELOPMENT IN LASER DELIVERY SYSTEMS**
Chair: Prof. Andrew Forbes, Physics Wits, Johannesburg, South Africa
- h17:15 **Closing Panel**
- h19:00 Dinner on Own at Cattle Baron
Optional Sunset/Night Drive

Saturday 12 November

Morning Optional Morning Activities
Return to Johannesburg by bus, or continuation of the trip to national SA destinations (Skukuza Airport or Bidvest Car Rental)
International flights all departing in the evening.

Posters on Display from Tuesday to Friday at Skukuza's Nombolo Mdhuli Conference Centre Hall or Breakaway Venues

CONFERENCE PROCEEDINGS

“Call for Abstracts” to open in February 2016.

“Call for Papers” to open in May 2016:

- Full paper submission
- Blind peer review process by the committee members and invited reviewers
- ISBN Conference Proceedings delivered to all participants as a form of USB-Stick.

Publishing details for the 6th ICLPRP Proceedings will be advised at a later stage.

N.B. Booking of all accommodations, additional local flights, car rentals (Johannesburg and Kruger), extra activities and tours, accompanying persons activities, available at pre-arranged rates with selected suppliers from conference website (The Inside Edge).