

**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>)

h11:00 Registration Desks open at Hotel Foyers

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/campus-life/wits-virtual-tour/>)

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

(Wits Club: <https://www.wits.ac.za/campus-life/eateries/the-wits-club/>)

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

h14:00 **SESSION 2: FATIGUE LIFE EXTENSION**
Chair: Dr Omar Hatamleh, San Francisco, NASA

h16:00 Coffee Break

h16:15 **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

h04:30 Morning Drive for Group 1

h08:00 **“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

h10:15 **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

h13:30 **“LSP: the Origin” Keynote Presentation**
Dr Remy Fabbro, CNRS, Paris, France

SESSION 6: PROCESS MODELING & SIMULATIONS
Chair: Mr Francesco Pietra, University of Pretoria, Pretoria, South Africa

h15:30 Coffee Break

h15:45 **“LSP: the Origin” Keynote Presentation**
Dr Yuji Sano, ImPACT, Tokyo, Japan

SESSION 7: NOVEL MONITORING TECHNOLOGIES & INDUSTRIAL APPLICATIONS
Chair: Mr Willie van der Walt, Denel Aerostructures, Kempton Park, South Africa

h19:00 Dinner on Own
Optional Sunset Drive

Thursday 10 November

h04:30 Morning Drive for Group 2

h08:00 **“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 Jeff Dulaney (tbc), Laser Shock Peening Technologies, Dublin, USA
	SESSION 10: DEVELOPMENT IN AERONAUTICAL APPLICATIONS <i>Chair: Dr Domenico Furfari, Airbus, Hamburg, Germany</i>
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 <i>Chair: Ms Elke Hombergsmeier, Airbus Group Innovations, Munich, Germany</i>
h17:30	Gala Dinner: Sunset Drive and Bush Braai

Friday 11 November

h04:30	Morning Drive for Group 3
h08:00	“LSP: the Present” Keynote Presentation Dr Jeffrey O. Bunch (tbc), Boeing Integrated Defense Systems, Seattle, USA or Dr David Jensen (tbc), Boeing, Seattle, USA
	SESSION 12: LIFE PREDICTION METHODS <i>Chair: Dr Kristina Langer, Air Force Research Laboratory, Dayton, United States</i>
h10:00	Coffee Break
h10:15	“LSP: the future” Keynote Presentation Dr Laurent Berthe, CNRS, France
	SESSION 13: TRIBOLOGY, CORROSION AND STRESS CORROSION <i>Chair: Prof. Janez Grum, Faculty of Mechanical Engineering, Ljubljana, Slovenia</i>
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 <i>Chair: Prof. Seetha Ramaiah Mannava, University of Cincinnati, United States</i>
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 <i>Chair: Prof. Andrew Forbes, Wits Physics, Johannesburg, South Africa</i>
h17:15	Closing Panel
h19:00	Dinner on Own at Cattle Baron Optional Sunset/Night Drive

Saturday 12 November

<i>Morning</i>	Optional Morning Walk 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.
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Posters on Display from Tuesday to Friday at Skukuza's Nombolo Mdhuli Conference Centre Hall or Breakaway Venues

CONFERENCE PROCEEDINGS

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“Call for Abstracts” to open in February 2016.

“Call for Papers” to open in May 2016:

- Full paper submission.
- Full peer review process by the committee members and invited reviewers within the Emerald ScholarOne system.
- 6th ICLPRP ISBN Book of Abstracts & 6th ICLPRP Proceedings will be delivered to all participants as a form of USB-Stick.
- The 12 best papers will be published in a 2017 Special Issue of the International Journal of Structural Integrity (Scopus, SJR, EI Compendex, British Library, etc.)

<http://emeraldgrouppublishing.com/products/journals/journals.htm?id=ijsi>

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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).