



**PROGRAMME TIMING & REGISTRATION FORM**  
**9<sup>th</sup> International Conference on Shot Peening: ICSP9**  
**6-9 september 2005, Paris Marne la Vallée**

<http://icsp9.iitt.com>

*The contents of the sessions may change up to the publication of the final programme.*

<b>Time</b>	<b>Tuesday 6<sup>th</sup></b>	<b>Wednesday 7<sup>th</sup></b>	<b>Thursday 8<sup>th</sup></b>	<b>Friday 9<sup>th</sup></b>
<b>9:00 - 12:30</b>	<b>Opening, Applications</b>	<b>Alternative Processes</b>	<b>Fatigue and Fracture of other materials</b>	<b>Surface Characteristics Closing</b>
<b>12:30 - 14:00</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch ISC-Meeting</b>	<b>Lunch</b>
<b>14:00 - 18:00</b>	<b>Modelling and Simulation</b>	<b>Fatigue and Fracture of Steels</b>	<b>Technological Aspects</b>	
<b>Evening</b>	<b>Free</b>	<b>Boat trip</b>	<b>Garden Party on invitation</b>	

**Tuesday 6<sup>th</sup> Morning**  
**8:00-9:00 Registration**

**Opening Ceremony**

**9:00 Opening Address**

*V. Schulze, Universität Karlsruhe (TH) Germany*

**9:10 Welcome, Organisational Aspects**

*A. Niku-Lari, IITT-International, France*

**SESSION 1 : Applications**

**Co-chairmen:** *Fr.-X Abadie, Saint-Gobain ZirPro (SEPR), France*  
*B. Eigenmann, X-Ray Laboratory Ch. Eigenmann, Germany*

**Keynotes**

**9:20 Fatigue improvement of welded components by shot peening**

*H.P. Lieurade, CETIM, Senlis, France*

**9:50 Shot peening of gear wheels**

*D. Schwab, Wheelabrator Group - France*

**10:20 Break and Exhibition**

**10:40 Correlation of shot peening parameters to surface characteristic**  
*O. Higounenc, Metal Improvement Company, Montargis, France*

Papers:

**11:10 Evolution of shot peening on the CF-18 – from OEM to robotic**  
**S. Forgues \***, **J. Brosseau \*\***  
*\*L-3 MAS Canada, Montreal International Airport - Mirabel, Mirabel, Quebec, Canada,*  
*\*\*Department of National Defence, Ottawa, Ontario, Canada*

**11:30 Shot Peening of Gear Components for the automotive Industry.**  
*Albert Schlatter, Hans Jörg Stoll, DISA Industrie AG, Schaffhausen, Switzerland*

**11:50 Ceramic shot, enhancement of high strength steel endurance - Application to springs and gears**  
*\*Fr.-X. Abadie, \*\*L. Barralier, \*\*\*S. Fleury*  
*\*Saint-Gobain ZirPro (SEPR), Sorgues, France, \*\*ENSAM Laboratoire Mecasurf, Aix-En-Provence, France, \*\*\*Ressort Liberté, Montmagny, Canada*

**12:10 Shot Peening of a Titanium Alloy for Medical Implant Applications with Zirconia Shot**  
*A. Schuh\*, U. Holzwarth\*\*, G. Zeiler\*, W. Kachler\*\*\*, J. Göske\*\*\*, T. Knetsch\*\*\*\*, B. Eigenmann\*\*\*\*\**  
*\*Orthopedic Hospital Rummelsberg, 90592 Schwarzenbruck, Germany, \*\*MedTitan®, 91052 Erlangen, Germany, \*\*\*Zentrum für Werkstoffanalytik Lauf, 91207 Lauf a.d. Pegnitz, Germany, \*\*\*\*OSK Kiefer GmbH, 07381 Oppurg, Germany, \*\*\*\*\*X-Ray Laboratory Ch. Eigenmann, 91220 Schnaittach, Germany*

**12:30 Lunch**

**Tuesday 6<sup>th</sup> Afternoon**

**Session 2 : Modelling and Simulation**

**Co-chairmen:** **G.H. Majzoobi, Bu-Ali Sina University, Hamadan, Iran**  
**V. Schulze, Universität Karlsruhe (TH), Germany**

Keynote:

**14:00 Metal forming by shot peening**  
*J. Zarka, CADLM, France*

Papers:

**14:30 Finite Element Analysis of Shot Peening -On the form of a single dent-**  
*N. Hirai\*, K. Tosha\*, E. Rouhaud\*\**  
*\*Meiji University, Kawasaki, Japan, \*\*University of Technology of Troyes, Troyes, France*

**14:50 A 3-d numerical study of shot peening process using multiple shot impacts**  
*G.H. Majzoobi\* and R. Azizi\**  
*\*Mechanical Engineering Department, Bu-Ali Sina University, Hamadan, Iran*

**15:10 Similarity Rules for the Shot Peening Process Based on Finite Element Simulations**

*M. Klemenz\*, Th. Hochrainer\*\*, L. Delonnoy\*, V. Schulze\*, O. Vöhringer\*, P. Gumbsch\*\* \*\*\**

*\*Universität Karlsruhe (TH), Institut für Werkstoffkunde I, Karlsruhe, Germany, \*\*Universität Karlsruhe (TH), Institut für Zuverlässigkeit von Bauteilen und Systemen, Karlsruhe, Germany, \*\*\*Fraunhofer-Institut für Werkstoffmechanik, Freiburg, Germany*

**15:30 Optimising Shot Peening Parameters using DoE**

*D. Lassithiotakis\*, C. J. Aylott\*, B. A. Shaw\*, J.Ooi\*\*, F. Petit-Renaud\*\*\**

*\*Design Unit, University of Newcastle, UK, \*\*School of Civil and Environmental Engineering, University of Edinburgh, UK, \*\*\*ISPC Surface Preparation Limited, Impact Finishers, Slough, UK*

**15:50 Break and Exhibition**

**16:10 Finite elements model of shot peening, effects of material's constitutive laws of Material**

*E. Rouhaud\*, A. Ouakka\*\*, Ch. Ould\*, J-L. Chaboche\*, M. François\**

*\*LASMIS Université de Technologie de Troyes, France, \*\*ALLEVARD REJNA Autosuspensions CRDT/CiSM, Douai, France*

**16:30 Thermo-elasto-plastic model for shot peening : a numerical and experimental approach**

*S. Rouquette\*, E. Rouhaud\*, Hervé Pron\*\*, M. François\*, Chr. Bissieux\*\**

*\*Laboratoire des Systèmes Mécaniques et Ingénierie Simultanée, UTT, Troyes, France, \*\*Laboratoire de ThermoPhysique (LTP), Université de Reims Champagne – Ardennes, Reims, France.*

**16:50 Heterogeneous ultrasonic shot peening : experiment and simulation**

*M. Micoulaut\*, D. Restraint\*\*, P. Viot\*, M François\*\**

*\*Laboratoire de Physique Théorique des Liquides, Université Pierre et Marie Curie, Paris, France, \*\*Laboratoire des Systèmes Mécaniques et d'Ingénierie Simultanée, Université de Technologie de Troyes, Troyes, France*

**17:10 Fundamentals of the Deep Rolling of Compressor Blades for Turbo Aircraft Engines**

*S. Mader, F. Klocke*

*Laboratory of Machine Tools and Production Engineering, WZL of RWTH Aachen, Aachen, Germany*

**17:30 Calculated Determination of Optimum Peening Condition in terms of Collision Energy on Coil Spring by Shot Peening**

*A. Amano, T. Sakakibara, M. Wakita, Chuo Spring Co., Ltd., Japan*

**17:50 End of the sessions**

Wednesday 7<sup>th</sup> morning

**SESSION 3 : Alternative Processes**

Co-chairmen: J. Lu, UTT, Troyes, France

I. Altenberger, University of Kassel, Germany

Keynotes:

**9:00 Deep Rolling – The Past, the Present and the Future**

*I. Altenberger, University of Kassel, Institute of Materials Engineering, Germany*

**9:30 Optimization of residual stress and fatigue life in laser peened components**

*M.R. Hill, Th.E. Pistoichini, A.T. DeWald*

*Mechanical and Aeronautical Engineering, University of California, Davis USA*

**10:00 Generation of nanostructure by SMAT (Surface Mechanical Attrition Treatment): basic concept, different processes and applications**

*J. Lu\*, K.Lu\*\**

*\*IUT of Troyes, France, \*\*Nanyang National Laboratory for Materials Sciences, CAS, Shenyang, China*

**10:30 Break and Exhibition**

**10:50 The interest to use Tungsten Carbide balls with Stressonic Ultrasonic Shot-Peening process: application to Aero Engines parts**

*J.-M. Duchazeaubeneix, SONATS, Reze, France*

Papers:

**11:20 Effect of ultra shot peening on contact surface strength**

*Y. Watanabe\*, K. Hattori\*, M.Handa\*, N.Yoshida, T. Taki\*\*, J.-M. Duchazeaubeneix\*\*\**

*\*TOYO SEIKO Co., Ltd. Jyuhsiyama, Japan, \*\*Okayama University of Science, Okayama, Japan, \*\*\*SONATS, Reze, France*

**11:40 Effect of deep rolling at elevated and low temperatures on the isothermal fatigue behaviour of AISI 304**

*I. Nikitin, I. Altenberger, B. Scholtes*

*University of Kassel, Institute of Materials Engineering, Kassel, Germany*

**12:00 Deburring and surface conditioning of micro milled structures by abrasive and non-abrasive micro peening**

*Ch. Horsch, V. Schulze, D. Löhe*

*Universität Karlsruhe (TH), Institut für Werkstoffkunde I, Karlsruhe, Germany*

**12:20 Shot peening with dry ice**

*E. Uhlmann, M. Krieg*

*Fraunhofer Institute for Production Systems and Design Technology, Berlin, Germany*

**12:40 Lunch**

Wednesday 7<sup>th</sup> afternoon

**SESSION 4 : Fatigue and Fracture of steels**

Co-chairmen : *E. Müller, Fachhochschule Bochum, Germany*

*P. S. Prévay, Lambda Research, Cincinnati, OH, USA*

Papers:

**14:00 increasing the fatigue strength of gears using combined case-hardening and shot peening treatments**

*J Peyrac , J.F. Flavenot, CETIM, Senlis, France*

**14:20 Fatigue limits prediction of shot peened materials**

*H. Guechichi\*, L. Castex\*\**

*\* Department of Mechanics, Mostaganem University, Mostaganem, Algeria, \*\* INSA Toulouse, Toulouse, France.*

**14:40 Fatigue strength prediction of a shot peened 42CrMo4 steel using multiaxial fatigue criterion and surface roughness correction**

*T. Palin-Luc\*, J.F. Flavenot\*\*, S. Lasserre\*, J.L. Charles\*, Y. Leguernic\*\*\**

*\*ENSAM – LAMEFIP, Bordeaux, France, \*\*CETIM, Senlis, France, \*MIC, Amilly, France*

**15:00 Residual Stress Sensitivity of Case-Hardened Notched Specimens**

*T. Krug\* \*\*, K.-H. Lang\*\*, D. Löhe\*\**

*\*Robert Bosch GmbH, Stuttgart, Germany*

*\*\*Universität Karlsruhe (TH), Institut für Werkstoffkunde I, Karlsruhe, Germany*

**15:20 The effects of shot peening and deep rolling on the surface layer and the mechanical properties of sintered iron**

*J. Merkel, V. Schulze, O. Vöhringer*

*Institut für Werkstoffkunde I, Universität Karlsruhe (TH), Karlsruhe, Germany*

**15:40 Comparison of mechanical suppression by shot peening and low plasticity burnishing to mitigate SCC and corrosion fatigue failures in 300M landing gear steel**

*P.S. Prévay\*, N. Jayaraman\*, N. Ontko\*\*, M. Shepard\*\*, R. Ware\*\*, J. Coate\*\**

*\*Lambda Research, Cincinnati, OH, USA, \*\*Air Force Research Laboratory, OH, USA*

**16:00 Break and Exhibition**

**16:20 Static and dynamic strain ageing of deep rolled plain carbon steel SAE 1045 for optimized fatigue strength**

*I. Altenberger, I. Nikitin, B. Scholtes*

*University of Kassel, Institute of Materials Engineering, Kassel, Germany*

**16:40 Fatigue life improvement through nanostructuring of stainless steel**

*T. Roland\*, D. Reiraint\*, K. Lu\*\*, J. Lu\**

*\*LASMIS, University of Technology of Troyes, Troyes, France, \*\*Shenyang National Laboratory for Materials Science, Institute of metal research, Chinese Academy of Sciences, Shenyang, PR China*

**17:00 Overview of low plasticity burnishing for mitigation of fatigue damage mechanisms**

*P.S. Prévay\*, N. Jayaraman\*, J. Cammett\*\**

*\*Lambda Research, Cincinnati, OH, USA, \*\*NAVAIR Depot, Cherry Point, NC, USA*

**17:20 Analysis of influence of shot peening underplate on the fatigue life in the AISI4340 steel with hard chromium electroplated**

*M.A.S. Torres\**, *C.A.R.P. Baptista\*\*\**, *M.P. Nascimento\*\**, *H.J.C. Voorwald\*\**

*\*Department of Mechanics, State University of São Paulo, Brazil, \*\*Department of Materials, State University of São Paulo, Brazil, \*\*\*Department of Materials and Technology, Lorena, SP Brazil*

**17:40 End of the sessions and departure of the delegates by their own to Paris**

**19:40 All delegates and accompanying persons are invited to come together in Paris, métro PONT NEU, down to the boat (Bâteau Mouche)**

**20:00 Visit of Paris by boat**

**21:00 End of the visit and back to PONT NEUF**

**Thursday 8<sup>th</sup> morning**

**SESSION 5 : Fatigue and Fracture of other materials**

**Co-chairmen: H.-P. Lieurade, CETIM, France**

**W. Pfeiffer, Fraunhofer-Institut (IWM), Freiburg, Germany**

**Keynote:**

**9:00 Fatigue Performance of Light-Weight Alloys : Influences of Shot Peening and Pre-corrosion.**

*C. Mueller\**, *L. Wagner\*\**

*\*Chair of Physical Metallurgy, Technical University Darmstadt, Germany, \*\*Institute of Materials Science and Engineering, Clausthal University of Technology, Germany*

**Papers:**

**9:30 Coverage effects in shot peening of al 2024-T4**

*T. Ludian, L. Wagner*

*Institute of Materials Science and Engineering, Clausthal University of Technology, Germany*

**9:50 Effect of deep rolling on the fatigue behavior of under-, peak- and over-aged AA6110 at room temperature**

*P. Juijerm, I. Altenberger, B. Scholtes*

*Institute of Materials Engineering, University of Kassel, Kassel, Germany*

**10:10 Mechanical surface treatments on the high-strength wrought magnesium alloy AZ80**

*P. Zhang\*, J. Lindemann\*, A. Kiefer\*\*, C. Leyens\**

*\*Lehrstuhl Metallkunde und Werkstofftechnik, BTU-Cottbus, Cottbus, Germany, \*\*OSK Kiefer GmbH, Oppurg, Germany*

**10:30 Break and Exhibition**

**10:50 Deep Rolling of Titanium Rods for Application in Total Hip Arthroplasty**

*B. Eigenmann\*, U. Holzwarth\*\*, W. Kachler\*\*\*, J. Göske\*\*\*, G. Wilcke\*\*\*\*, A. Schuh\*\*\*\*\**

*\*X-Ray Laboratory Ch. Eigenmann, \*\*MedTitan, \*\*\*Zentrum für Werkstoffanalytik Lauf, \*\*\*\*ECOROLL AG, \*\*\*\*\*Orthopedic Hospital, Germany*

**11:10 Effects of aging treatment and shot peening variables on HCF performance of Timetal LCB**

*M. Kocan\*, H. J. Rack\*\*, L. Wagner\**

*\*Institute of Materials Science and Engineering, Clausthal University of Technology, Germany,*

*\*\*School of Materials Science and Engineering, Clemson University, SC, USA*

**11:30 Advances In Shot Peening of Silicon Nitride Ceramics**

*W. Pfeiffer, T. Frey*

*Fraunhofer-Institut für Werkstoffmechanik (IWM), Freiburg, Germany*

**11:50 Laser peening - progress to date**

*O. Higounenc, Metal Improvement Company, France*

**12:10 Lunch and Exhibition**

**Thursday 8<sup>th</sup> afternoon**

**SESSION 6 : Technological Aspects**

**Co-chairmen: F. Wüstefeld, Kugelstrahlzentrum, Aachen, Germany**

**K. Toshi, Meiji University, Kawasaki, Japan**

Keynotes:

**14:00 Evolution of shot peening experimental techniques**

*D. Kirk, Coventry University, Coventry, U.K.*

**14:30 History of Shot Peening Specifications**

*J. Champagne, Electronics Inc, The Shot Peener, Mishawaka, IN, USA*

Papers:

**15:00 Implementing on-line process control for shot peening**

*T. Haubold\*, W. Hennig\*, F. Wüstefeld\*\*, S. Kittel\*\*, A. Friese\*\**

*\*Rolls-Royce Deutschland Ltd & Co KG, Oberursel, Germany, \*\* Kugelstrahlzentrum Aachen GmbH, Aachen, Germany*

**15:20 On-line Process Control for Shot Peening Applications**

*F. Wüstefeld, W. Linnemann, St. Kittel, A. Friese*

*KSA Kugelstrahlzentrum Aachen GmbH, Aachen, Germany*

**15:40 Break and Exhibition**

**16:00 Relationship between coverage and surface residual stress**

*D. Kirk, R. C. Hollyoak*

*Coventry University, Coventry, U.K.*

**16:20 Influence of shot velocity and shot size on almen intensity and residual stress depth distributons**

*W. Zinn, B. Scholtes*

*University of Kassel, Institute of Materials Engineering, Kassel, Germany*

**16:40 Particle Velocity Sensor for Improving Shot Peening Process Control**

*B. Barker\*, K. Young\*, Luc Pouliot\*\**

*\*Progressive Technologies, Inc. - Grand Rapids, MI USA, \*\*Tecnar Automation, Ltée - St-Bruno, Québec CANADA*

**17:00 Factors that influence almen strip curvature**

*P. Bailey, J. Champaigne*

*Electronics Inc., Mishawaka, IN, USA*

**17:20 Shot peening and grit blasting - effects on surface integrity**

*K. Toshi\*, J. Lu\*\*, B. Guelorget\*\*, E. Nagashima\*\*\**

*\*Meiji University, Kawasaki, Japan, \*\*University of Technology of Troyes, Troyes, France, \*\*\*Sinto Kogio LTD., Aichi, Japan*

**18:30 Invitation of all delegates to a private garden party on the river Marne**

**Friday 9<sup>th</sup> morning**

**SESSION 7 : Surface characteristics**

**Co-chairmen: J. T. Cammett, NAVAIR Depot, Cherry Point, NC, USA**

**A. Nakonieczny, Inst. of Precision Mechanics, Warsaw, Poland**

Keynotes:

**9:00 Characterization of shot peened components by x-ray diffraction: a method on its way from the laboratory into industrial product development**

*W. Pfeiffer, Fraunhofer-Institut für Werkstoffmechanik (IWM), Freiburg, Germany*

**9:30 Stability of surface changes induced by mechanical surface treatments**

*V. Schulze, Universität Karlsruhe (TH), Institut für Werkstoffkunde I, Karlsruhe, Germany*

Papers:

**10:00 The effect of shot peening coverage on residual stress, cold work and fatigue in a nickel-base superalloy**

*J.T. Cammett\*, P.S. Prevéy\*\*, N. Jayaraman\*\**

*\*U.S. Naval Aviation Depot, Cherry Point, NC, USA, \*\*Lambda Research Inc., Cincinnati, OH, USA*

**10:20 Evolution of the Residual Stresses by Stress Rolling**

*E. Müller*

*Fachhochschule Bochum (University of Applied Sciences), Department of Mechatronics and Mechanical Engineering, Bochum, Germany*

**10:40 Break and Exhibition**

**11:00 Eigenstrain generated by shot peening in Udimet 720Li inferred by means of finite element and analytical models.**

*M.Satraki\* \*\*, A.Evans\*\* \*\*\*, A.King\*\*\*, G.Bruno\*\* \*\*\*, P.J Withers\*\*\**

*\*National Technical University of Athens, Iroon Polytexneiou, Athens, Greece,*

*\*\*Institut Laue-Langevin, Grenoble, France, \*\*\*Materials Science Centre, University of Manchester, Manchester, UK*



**11:20 Effect of Shot-Peening on the fatigue strength of spring steel after exposure to corrosion**

*A. Nakonieczny, G. Mo\_ka  
Institute of Precision Mechanics, Warsaw, Poland*

**11:40 The effect of incidence angle on residual stress state in laser peened Ti-6Al-4V plate**

*A.D. Evans\*\*\*, A. King\*\*, T. Pirling\*, G. Bruno\* \*\*, P.J. Withers\*\*  
\*Institute Laue-Langevin, Grenoble, France, \*\*Materials Science Centre, University of Manchester, Manchester, UK*

**12:00 Relation between microstructure of shot-peening steel and its mechanical characteristics**

*S. Haga\*, Y. Harada\*\*, H. Tsubakino\*\*  
\*Daihatsu Motor Co., Ltd, Japan, \*\*Graduate School of Engineering University of Hyogo, Hyogo, Japan*

## Closing

**12:20 V. Schulze, A. Niku-Lari: Closing, next location**

**12:30 End of Conference**

## Posters

**A possibility of application of shot - peening process in the production of new vehicles form**

*R. Markovina  
Institute of Mechanical Engineering and Naval Architecture, University of Split, Croatia*

**Thermal Performance of Solar Air Heater By Using Shot Peened Absorber Plate**

*Amit Jain, J.L. Bhagoria and M.C.Sharma  
Mechanical Engineering Department,MANIT,Bhopal (M.P)-India-462007*

**Proposing an applied information based solution in studying shot-peening process**

*R. Azizi, B. Disfani  
Mechanical Engineering Department, Faculty of Engineering, Bu-Ali Sina University, Hamadan, Iran*

**Cavitation peening by using cavitating jet in air**

*H. Soyama, K. Homma  
Tohoku University, Sendai, Japan*

**"Vacuum blasting": An innovative new process for metallic coating of surfaces with a shot/powder mixture**

*Gerard Pieper, Sigurd Ruhland,  
GP Innovation GmbH, Lübbenau, Germany*

**Fatigue strength of the steel after the percussive burnishing process**

*D. Stadnicka  
Technical University of Rzeszow, Rzeszow, Poland*

## **A numerical simulation to relate the shot peening process parameters to the induced residual stresses**

*T. Hong\**, *J.Y. Ooi\**, *J. Favier\*\**, *B. Shaw\*\*\**

*\*School of Engineering & Electronics, University of Edinburgh, UK, \*\*DEM Solutions Ltd, UK,*

*\*\*\*Design Unit, University of Newcastle, UK*

## **Laser shock processing as a method for surface properties modification of metallic alloys**

*J. L. Ocaña\**, *M. Morales\**, *C. Molpeceres\**, *J.A. Porro\**, *J. Grum\*\**, *M. Zupanèè\*\**

*\*Dept. of Applied Physics, Polytechnical University of Madrid, Spain, \*\*Faculty of Mechanical Engineering, Ljubljana, Slovenia*

## **Characteristics of Internal Surface Layer of Machine Parts Using Rebound Shot**

*Y. Harada, University of Hyogo, Hyogo, Japan*

## **Effect of prior cold work on fatigue performance of shot peened Ti-2.5Cu**

*H. Boeckels, L. Wagner*

*Institute of Materials Science and Engineering, Clausthal University of Technology, Germany*

## **Effects of shot peening on the corrosion fatigue life of Al 7075-T6**

*S.K. Cheong<sup>1</sup>, J.H. Nam<sup>1</sup>, J.H. Lee<sup>2</sup>, T.H. Kim<sup>3</sup>*

*<sup>1</sup>Seoul National University of Technology, Seoul, Korea*

*<sup>2</sup>The Graduate School of Energy & Environment, Seoul, Korea*

*<sup>3</sup>Sogang University, Seoul, Korea*

## **Re-configurable Multi-Agent System For Automated Aircraft Skin Forming.**

*Iraj Mantegh, Claude Perron, CNRC-NRC, Canada*



## REGISTRATION FORM

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### Registration fees

if registered before July 31, 2005 €700  
 if registered after July 31, 2005 €750

Exhibitors if registered before July 31, 2005 €650  
 if registered after July 31, 2005 €700

Second copy of the Conference Proceedings (Attending) €120

#### Members of Universities

if registered before July 31, 2005 €600  
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Visit of exhibition and visit of Paris by Boat (incl.)  
 Lunches and Break refreshments (incl.)  
 Conference proceedings (incl.)

Accompanying Person, including lunches  
and Boat trip, visit of exhibition €150

Copy of the Conference Proceedings (No delegates) €240

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French companies should add VAT of 19.6%

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