

Vorträge von Wissenschaftlern des Fraunhofer ILT im Jahr 2015

Januar

05.01.2015 – C. Hinke: Additive Manufacturing, ThyssenKrupp Expertenforum, Lorch, Deutschland

16.01.2015 – A. Weisheit: Laser Additive Manufacturing of Intermetallics, LAPAMS, Kharagpur, Indien

21.01.2015 – R. Poprawe: Wilkens EUKOM, EU Vortrag, Brüssel, Belgien

27.01.2015 – W. Meiners: Progress in Process and Materials Development for Selective Laser Melting at Fraunhofer ILT, Maastricht, Niederlande

28.01.2015 – M. Ungers: Fortgeschrittene Anlagenüberwachung und Kontrolle für die Massenproduktion, Bad Neuheim, Deutschland

Februar

05.02.2015 – T. Biermann: Center for Digital Photonic Production CDP, LAM 2015, Orlando, FL, USA

08.02.2015 – P. Kucirek: Radiation Test on Erbium-Doped Garnet Crystals for Spaceborne CH4-Lidar Applications, Photonics West, San Francisco, CA, USA

09.02.2015 – O. Fitzau: High Stability Single-Frequency Yb Fibre Amplifier for Next Generation Gravity Missions, Photonics West, San Francisco, CA, USA

09.02.2015 – M. Wehner: Two-Wavelength Approach for Controlling of Coagulation Depth during Laser Tissue Soldering, Photonics West, San Francisco, CA, USA

09.02.2015 – R. Poprawe: Brightness and Average Power as Driver for Advancements in Diode Lasers and Their Applications, Photonics West, San Francisco, CA, USA

11.02.2015 – K. van der Straeten: Laser Transmission Welding of Long Glass Fiber Reinforced Thermoplastics, Photonics West, San Francisco, CA, USA

11.02.2015 – M. Traub: Beam Shaping for High Trough Put Cleaning Applications, Photonics West, San Francisco, CA, USA

11.02.2015 – H. Leonards: Advantages and Drawbacks of Thiol-ene Based Resins for 3D-Printing, Photonics West, San Francisco, CA, USA

12.02.2015 – U. Thombansen: Process Observation in Selective Laser Melting, Photonics West, San Francisco, CA, USA

13.02.2015 – D. Hoffmann: Innoslab - New Results, Coherent Engineering Meeting, Santa Clara, USA

25.02.2015 – J. Risse: Study of Selective Laser Melting of Non-Weldable Ni-Base Superalloy on a Single Crystal Ni-Base Superalloy, ISAM, Dresden, Deutschland

26.02.2015 – A. Such: Increase of Productivity by Adaptive Selective Laser Melting, ICTM Conference, Aachen, Deutschland

März

04.03.2015 – A. Gillner: Organic AM: 3D Printing of Organs as Spare Parts for Human Beings, LAM 2015, Orlando, FL, USA

- 04.03.2015 – M. Schniedenharn:** High-Speed Selective Laser Melting, LAM 2015, Orlando, FL, USA
- 04.03.2015 – D. Hoffmann:** Bandwidth Limited ns and fs Sources Based on the Innoslab Concept, DPG Tagung, Bochum, Deutschland
- 04.03.2015 – T. Schopphoven:** Ultra-High-Speed Laser Material Deposition, LAM 2015, Orlando, FL, USA
- 04.03.2015 – S. Mann:** Powder-Gas Jet Characterization for Laser Material Deposition Systems, LAM 2015, Orlando, FL, USA
- 04.03.2015 – A. Gillner:** Hochleistungs-Ultrakurzpuls laser für die Materialbearbeitung - Chancen und Herausforderungen, DPG-Frühjahrstagung, Bochum, Deutschland
- 05.03.2015 – S. Bremen:** SLM @ Fraunhofer ILT: Current Research Topics and Developments, RapidPro, Veldhoven, Niederlande
- 10.03.2015 – A. Olowinsky:** Leichtbau-Energiepack mit integriertem Thermomanagement, Kongress Elektromobilität, Berlin, Deutschland
- 11.03.2015 – S. Heidrich:** Formgebung, Politur und Formkorrektur von Optiken mit Laserstrahlung, Photonics BW, Oberkochen, Deutschland
- 11.03.2015 – L. Jauer:** Selective Laser Melting of Magnesium Alloys, Biodegradable Magnesium Workshop, Turracher Höhe, Österreich
- 12.03.2015 – F. Schneider:** Process Chain for Next Generations TP-FRP Components: 3-D Fibre Spraying, Variothermal Consolidation and Laser Processing, JEC 2015, Paris, Frankreich
- 12.03.2015 – C. Fricke-Begemann:** Sensor Technology for EAF Process Control, Workshop R&D on Electrical Arc Furnace, Dalmine, Italien
- 17.03.2015 – R. Poprawe:** Digital Photonics Production - The Role of Lasers in Industry, LPC 2015, Shanghai, China
- 17.03.2015 – D. Petring:** Latest Developments in the CO₂ versus Fibre Laser Cutting Debate, ILAS 2015, Kenilworth, Großbritannien
- 28.03.2015 – A. Häusler:** Efficient Copper Micro Welding with Fiber Lasers Using Spatial Power Modulation, Matador Conference 2015, Yunlin, China
- 29.03.2015 – P. Heinen:** Laser Micro Welding of Copper on Lithium-Ion Battery Cells for Electrical Connections in Energy Storage Devices, Matador Conference 2015, Yunlin, China
- 31.03.2015 – J. Kumstel:** Laser Polishing of Metallic Freeform Surfaces, Icomm2015, Mailand, Italien

April

- 09.04.2015 – R. Poprawe:** Laser Metal Deposition: High Efficiency, Laser Additive Manufacturing, Tokyo, Japan
- 09.04.2015 – R. Poprawe:** The Future of Digital Photonic Production, Photonix 2015, Tokyo, Japan
- 09.04.2015 – R. Poprawe:** Keynote Expo, Laser Applications Expo Tokyo, Tokyo, Japan
- 14.04.2015 – S. Heidrich:** Optics Manufacturing by Laser Processing, 2nd European Seminar on Precision Optics, Teisnach, Deutschland
- 14.04.2015 – M. Brosda:** Zersörungsfreie Prüfverfahren für das Laserschweißen von Kunststoffen, DVS W4.12 Treffen, Morsbach, Deutschland
- 14.04.2015 – R. Noll:** Laser-Direktanlyse Verwechslungsprüfung und mehr, VDEh-Fachausschuss Messtechnik, Düsseldorf

- 15.04.2015 – C. Hinke:** Additive Manufacturing - Möglichkeiten und Herausforderungen, Hannover Messe, Hannover, Deutschland
- 21.04.2015 – N. Nottrodt:** ArtiVasc 3D - Development of Artificial Vascularized Scaffolds by Additive Manufacturing, ArtiVasc EuroBioMat 2015, Weimar, Deutschland
- 22.04.2015 – R. Poprawe:** Digital Photonic Production - The Role of Lasers in Industry 4.0, Opic Konferenz, Tokyo, Japan
- 23.04.2015 – A. Gasser:** New Developments in Laser Metal Deposition for Repair Applications of Turbo-Engine Components, Turbine Forum, Nizza, Frankreich
- 28.04.2015 – R. Poprawe:** Digital Photonic Production - Fertigungstechniken der Zukunft, i-Wing, Dresden, Deutschland
- 29.04.2015 – I. Ross:** Laser Polishing of Laser Additive Manufactured Surfaces Made from IN718 and ASTM F75, ASPE 2015 Spring Topical Meeting, Raleigh, NC, USA
- 29.04.2015 - M. Dahmen:** Laser Beam Welding of Ultra-High Strength Steels for Eco-Efficient Applications, JNPLI 2015, Nantes, Frankreich
- 29.04.2015 – F. Schneider:** Cutting and Joining of Composites with High Power Lasers, JNPLI 2015, Nantes, Frankreich

Mai

- 04.05.2015 – R. Poprawe:** Stand und Perspektiven der Additiven Fertigung aus prozesstechnischer und wirtschaftlicher Perspektive, Management-Circle, Düsseldorf, Deutschland
- 07.05.2015 – A. Gillner:** 3D-Biofabrication by Laser Cell Printing, Cells Meet Surface, Braunschweig, Deutschland
- 11.05.2015 – M. Meixner:** Production of Piezoelectric Layers by Chemical Solution Deposition and Laser Processing, EMRS, Lille, Frankreich
- 14.05.2015 – C. Kalupka:** Non-Thermal Ablation and Deposition of Graphite Induced by Ultrashort Pulsed Laser Radiation, San Jose, Kalifornien, USA
- 19.05.2015 – L. Jauer:** Life Cycle Cost Based Evaluation and Development of Additive Manufacturing Machines, AMPM, San Diego, Kalifornien, USA
- 19.05.2015 – L. Jauer:** Selective Laser Melting at Fraunhofer ILT, AMPM, San Diego, Kalifornien, USA
- 20.05.2015 – S. Connemann:** Automated Sorting of Spent Refractories from the Steel Industry for High-Value Recycling, CETAS 2015, Düsseldorf, Deutschland
- 21.05.2015 – V. Sturm:** Inline Analysis of Liquid Slag, CETAS 2015, Düsseldorf, Deutschland
- 21.05.2015 – C. Fricke-Begemann:** Inline Scrap Control for EAF Charging, CETAS 2015, Düsseldorf, Deutschland
- 26.05.2015 – C. Hartmann:** Repetition Rate Dependency for High Density Perforation of Thin Al-Foils with Ultra Short Pulse Lasers, LAMP 2015, Kitakyushu, Japan
- 26.05.2015 – S. Britten:** Measurement of the Vapor Plume Velocity in Laser Impulse Metal Bonding with Temporal Power Modulation, LAMP 2015, Kitakyushu, Japan
- 26.05.2015 – M. Ungers:** Analysis of Robot Movements via Velocity Measurement for the Application of Laser Material Processing, LAMP 2015, Kitakyushu, Japan
- 26.05.2015 – D. Petring:** Examination of Laser Cutting Phenomena by Comprehensive Steady-State Simulations, LAMP 2015, Kitakyushu, Japan
- 27.05.2015 – C. Engelmann:** Examination of the Bond Strength of Laser Assists Plastic-Metal-Joints considering Different Load Directions, LAMP 2015, Kitakyushu, Japan

- 28.05.2015 – H. Uchtmann:** Hybrid Laser Drilling of Cooling Holes by Using Millisecond Pulsed Fiber Laser Radiation and Ultrashort Pulsed Laser Radiation, LAMP 2015, Kitakyushu, Japan
- 28.05.2015 – V. Mamuschkin:** Comparison of Different Irradiation Methods in Absorber-Free Laser Transmission Welding, LAMP 2015, Kitakyushu, Japan
- 28.05.2015 – F. Schneider:** Laser Cutting and Joining of Fibre Reinforced Plastics within Novel Process Chains, LAMP 2015, Kitakyushu, Japan
- 29.05.2015 – D. Riester:** High Speed Photography of Laser Induced Forward Transfer of Single and Double-Layered Transfer for Single Cell Transfer, LAMP 2015, Kitakyushu, Japan
- 29.05.2015 – J. Witzel:** Additive Manufacturing of a Blade Integrated Disk with Laser Metal Deposition, LAMP 2015, Kitakyushu, Japan
- 29.05.2015 – M. Jüngst:** Influence of Spatial Pulse Overlap and Temporal Pulse Delay on Ultra-Short Pulsed Laser Ablation Thin Layers, LAMP 2015, Kitakyushu, Japan
- 29.05.2015 – M. Dahmen:** Properties of Laser-Beam Welded Ultra-High Strength Martensitic Stainless Steels, LAMP 2015, Kitakyushu, Japan
- 29.05.2015 – J. Risse:** Additive Manufacturing in Series Production: Recent Research Topics at Fraunhofer ILT with a Focus on Turbomachinery, LAMP 2015, Kitakyushu, Japan

Juni

- 02.06.2015 – S. Vogt:** Combined Cutting and Local Heat Treatment with Laser Radiation of Ultra High Strength Press Hardened Steels, CHS 2, Toronto, Kanada
- 03.06.2015 – B. Mehlmann:** Laserstrahlschweißen von Kupfer- und Aluminiumbändchen - eine Weiterentwicklung zum klassischen Ribbon-Bonden, DVS AG2.4, Düsseldorf, Deutschland
- 09.06.2015 – J. Flemmer:** Simultaneous 9-Axis-Laser-Processing, MSEC 2015, Charlotte NC, USA
- 09.06.2015 – J. Flemmer:** Software Tool for Near-net, Cladding and Built-up by Laser Metal Deposition, MSEC 2015, Charlotte NC, USA
- 10.06.2015 – C. Gayer:** Selective Laser Melting of Biodegradable Implants, Rapid.Tech 2015, Erfurt, Deutschland
- 11.06.2015 – J. Löhring:** Montage optischer Systeme für Weltraumapplikationen, Seminar Optikmontage, IPTZ, ILT, Aachen, Deutschland
- 11.06.2015 – J. Kumstel:** Polishing of SLM Manufactured Components Using cw Laser Radiation, Rapid. Tech, Erfurt, Deutschland
- 15.06.2015 – I. Kelbassa:** Laser Additive Manufacturing LAM-Fundamentals of Selective Laser Melting SLM and Laser Material Deposition LMD, TechConnect World 2015, Bremen, Deutschland
- 16.06.2015 – J. Witzel:** Additive Manufacturing Technologies for Aero-Engine Components, Paris Air Show, Paris, Frankreich
- 19.06.2015 – C. Fricke-Begemann:** Laser-Based Analysis Methods, Seminar Sensors and Measurement Techniques for Monitoring and Control of the EAF Process, Düsseldorf, Deutschland
- 22.06.2015 – F. Schneider:** Laser Cutting and Joining in a Novel Process Chain for Fibre Reinforced Plastics, LIM 2015, München, Deutschland
- 22.06.2015 – H. Sändker:** Laser Beam Propagation and Energy Deposition in Particulate PEEK Layers, LIM 2015, München, Deutschland

- 22.06.2015 – I. Ross:** Investigation of the Influence of Laser Surface Modifications on the Adhesive Wear Behaviour in Dry Cold Extrusion of Aluminum, LIM 2015, München, Deutschland
- 22.06.2015 – M. Brosda:** Laser Welding of Transparent Polymer Films, LIM 2015, München, Deutschland
- 23.06.2015 – S. Heidrich:** Glass Processing with High Power Q-Switch CO₂ Laser Radiation, LIM 2015, München, Deutschland
- 23.06.2015 – W. Meiners:** Laser-Based Additive Manufacturing: Basic Principle and Examples of Application, Laser World of Photonics – Application Panel, München, Deutschland
- 23.06.2015 – A. Gillner:** Multi Parallel Ultrashort Pulse Laser Processing, LIM2015, München, Deutschland
- 23.06.2015 – C. Engelmann:** Metal Meets Composite-Hybrid Joining for Automotive, LIM2015, München, Deutschland
- 24.06.2015 – A. Temmler:** Surface Structuring by Remelting of IN 718, LIM 2015, München, Deutschland
- 24.06.2015 – D. Esser:** Fused-Silica Mirror Substrates with Laser- Microstructured Openings with Reduced Chipping, LASER 2015/CLEO Europe, München, Deutschland
- 25.06.2015 – W. Schulz:** Meta-Modelling for Optimization of High Power Adaptable Laser Beams, LASER 2015, München, Deutschland
- 25.06.2015 – C. Weingarten:** Laser Polishing and Edge Rounding of Glass, LIM 2015, München, Deutschland
- 29.06.2015 – M. Dahmen:** Properties of Laser-Beam Welded Ultra-High Strength Martensitic Stainless Steels, Kitakyushu, Osaka, Japan

Juli

- 02.07.2015 – K. van der Straeten:** Laser Cutting and Joining for Lightweight Applications, AZL, Aachen, Deutschland
- 07.07.2015 – A. Gillner:** High Speed Multi Beam Laser Processing for Flexible Electronics, ISFOE, Thessaloniki, Griechenland
- 21.07.2015 – S. Janssen:** Laserbearbeitung von CFK - Aktuelle Themen am ILT, CFK-Workshop, Freudenstadt, Deutschland
- 23.07.2015 – Al.Khawli Toufik:** Advanced Metamodeling Techniques Applied to Multidimensional Applications with Piecewise Responses, International Workshop on Machine Learning, Taormina, Sizilien, Italien
- 27.07.2015 – R. Noll:** Laser-Induced Breakdown Spectroscopy – Fundamentals and Applications, 2nd Workshop about Laser in Analytical Chemistry, São Carlos, Brasilien
- 28.07.2015 – R. Poprawe:** Stand der additiven Fertigung aus prozesstechnischer und wirtschaftlicher Perspektive, Audi, Ingolstadt, Deutschland
- 30.07.2015 – R. Noll:** Laser-Induced Breakdown Spectroscopy from R&D to Industrial Applications, 2nd Workshop about Laser in Analytical Chemistry, São Carlos, Brasilien
- 31.07.2015 – R. Noll:** Fraunhofer ILT - Partner for Innovations, Embrapa, São Carlos, Brasilien

August

- 03.08.2015 – R. Poprawe:** Ultrafast Laser Processing in the KW-Range - Vision and Challenges in High Speed

Precision Machining, IAPLE, Hawaii,

09.08.2015 – F. Zibner: 1 μm Adjustment-Tolerance for High-Precision Helical Laser Drilling, SPIE, San Diego, USA

13.08.2015 – C. Hördemann: Ultrashort-Pulsed Laser Processing and Solution Based Coating in Roll-to-Roll Manufacturing of Organic Photovoltaics, SPIE, San Diego, USA

17.08.2015 – S.-K. Rittinghaus: Laser Metal Deposition of Titanium Aluminides – A Future Repair Technology for Jet Engine Blades, 13th World Conference on Titanium 2015, San Diego, USA

18.08.2015 – R. Poprawe: 3D-Metalprinting Advancements, Toyota Central, Nagoya, Japan

21.08.2015 – T. Schopphoven: Investigations on Ultra-high-speed Laser Material Deposition as Alternative for Hard Chrome Plating and Thermal Spraying, ICALEO, Atlanta, USA

25.08.2015 – L. Jauer: Selective Laser Melting of Magnesium Alloys, Biodegradable Metals Conference, Carovigno, Italien

26.08.2015 – M. Dahmen: Mechanical Properties of Laser Beam Welded Ultra-High Strength Chromium Steel with Martensitic Microstructure, Lappeenranta, Finnland

September

04.09.2015 – S. Engelhardt: Artificial Blood Vessel Scaffolds Made by 3D Printing, Leuven, Belgien

15.09.2015 – U. Thombansen: Prozessbeobachtung bei der generativen Fertigung mit SLM Verfahren, DVS Kongress, Nürnberg, Deutschland

15.09.2015 – S. Connemann: Automated Sorting of Spent Refractories from the Steel Industry for High-Value Recycling, EMSLIBS 2015, Linz, Österreich

15.09.2015 – R.Noll: LIBS - New Developments for Industrial Applications, EMSLIBS 2015, Linz, Österreich

15.09.2015 – C. Meinhardt: LIBS Analysis of Continuous Casting Steel with Raw Scale Layers, EMSLIBS 2015, Linz, Österreich

17.09.2015 – C. Engelmann: Laserbasierte Fügeverfahren für faserverstärkte Kunststoffe, DVS Kongress, Nürnberg, Deutschland

22.09.2015 – U. Thombansen: Lashare Trl and Csa, AILU Conference, Cambridge, Großbritannien

23.09.2015 – M. Conrad / A. Diatlov: Implementation Aspects of On-Chip Printed Micro Heat Sinks for Power Semiconductors, Montreal, Kanada

24.09.2015 – T. Hermanns: Mathematical Modelling and Linear Stability Analysis of Laser Fusion Cutting, ICNAAM 2015, Rhodos, Griechenland

25.09.2015 – W. Schulz: An Integrated Approach for the Knowledge Extraction in Computer Simulation Models with a Multidimensional Parameter Space, ICNAAM 2015, Rhodos, Griechenland

Oktober

07.10.2015 – K. Bergmann: Metrology Tools for the Characterization of Light Sources in the Spectral Region around 6.x nm, EUVL Symposium 2015, Maastricht, Niederlande

07.10.2015 – J. Vieker: Compact Discharge Based EUV Source for Metrology and Inspection, EUVL Symposium 2015, Maastricht, Niederlande

09.10.2015 – M. Reininghaus: Multi Parallel Ultrashort Pulse Laser Processing, ASSL 2015, Berlin,

Deutschland

- 09.10.2015 – U. Witte:** Dense Wavelength Multiplexing and 35 μm -Fiber Coupling of Wavelength Chirped High Power Diode Laser Bars, ASSL 2015, Berlin, Deutschland
- 09.10.2015 - U. Thombansen:** Lashare Laser-based Equipment Assessment, EMO 2015, Mailand, Italien
- 09.10.2015 – A. Gillner:** Multi Parallel Ultrashort Pulse Laser Processing, ASSL 2015, Berlin, Deutschland
- 13.10.2015 – C. Weingarten:** Laser Polishing of Glass, OPTIFAB, Rochester, USA
- 15.10.2015 – C. Hinke:** Selective Laser Melting for Additive Manufacturing: Perspectives for Diode Lasers, High Power Diode Lasers & Systems Conference, Coventry, England
- 20.10.2015 – R. Poprawe:** Advanced Method for Manufacturing Hybrid Nickel Based Components by Combining Single Crystal (SX) Subcomponents with Polycrystalline (PX) Structures Generated by Laser Metal Deposition (1301), ICALEO 2015, Atlanta, USA
- 21.10.2015 – S. Janssen:** Comparison Between ps-and μs -Laser Radiation for Drilling Holes for Force Transmission Elements in CFRP-Preforms, ICALEO 2015, Atlanta, USA
- 21.10.2015 – F. Eibl:** Digitale Werkzeuge in der SLM-Sonderanlagenentwicklung, Materialise User Group Meeting, Würzburg, Deutschland
- 21.10.2015 – J. Kittel:** Advanced Method for Manufacturing Hybrid Nickel Based Components by Combining Single Crystal (SX) Subcomponents with Polycrystalline (PX) Structures Generated by LMD, ICALEO 2015, Atlanta, USA
- 22.10.2015 – A. Gillner:** Möglichkeiten und Chancen der UKPL-Materialbearbeitung, UKP, Ditzingen, Deutschland
- 22.10.2015 – H. Uchtmann:** Hybrid Laser Drilling of Cooling Holes, ICALEO 2015, Atlanta, USA
- 28.10.2015 – V. Blattmann:** Progress on Wafer Texturing by Hybrid Laser-Etching-Process, PV Days, Halle, Deutschland
- 28.10.2015 – C. Gayer:** Selective Laser Melting for Medical Applications, "ArtiVasc 3D" Public Workshop, Aachen, Deutschland

November

- 03.11.2015 – D. Petring:** The Laser in Sheet Metal Processing - Specialty or Versatile Tool for Coil Lines?, Laser Strip Welding Symposium, Hilchenbach-Dahlbruch, Deutschland
- 05.11.2015 – J. Vieker:** Compact Discharge Based EUV Source for Metrology and inspection, PTB-Seminar VUV and EUV Metrology, Berlin, Deutschland
- 08.11.2015 – A. Gillner:** 3D – Biofabrication by Laser Cell Printing and Ultra High Resolution Additive Manufacturing, Biofabrication 2015, Utrecht, Niederlande
- 10.11.2015 – K. Bergmann:** Discharge Based EUV Source for Metrology and Inspection, EUV Source Workshop, Dublin, Irland
- 13.11.2015 – N. Nottrodt:** Local Surface Functionalization of Polymer Composites with RGD for Hernia Implants, Freiburg, Deutschland

- 16.11.2015 – M. Brosda:** *Flexible and Precise Laser Processing of Polymers, IVAM High-Tech Forum, Compamed 2015, Düsseldorf, Deutschland*
- 16.11.2015 – U. Jansen:** *An Interactive Approach for Fast and Frugal Decision Making in Innovative Research Cooperation, ICERI2015, Sevilla, Spanien*
- 17.11.2015 – C. Engelmann:** *Examination of the Bond Strength of Laser Assisted Plastic-Metal-Joints considering Different Load Directions, Projekttreffen PMJoin + Workshop, Martos, Spanien*
- 17.11.2015 – R. Poprawe:** *Laser Additive Manufacturing am Standort Aachen, Formnext Frankfurt, Frankfurt*
- 19.11.2015 – W. Schulz:** *Meta-Modelling and Visualization of Multi-Dimensional Data, Lasertagung 2015, Mittweida, Deutschland*
- 24.11.2015 – M. Traub:** *Beam Shaping of High Power Laser Diodes for Space Applications, Workshop on »Laser Diodes for Space Applications«, Palaiseau, Frankreich*

Dezember

- 03.12.2015 – P. Abels:** *Integrated Process Control for Laser Material Processing, Automotive Laser Applications Summit, Berlin, Deutschland*
- 03.12.2015 – R. Poprawe:** *Technological Development and Applications of Additive Manufacturing in Europe, MIRDC Taiwan, Taiwan*
- 08.12.2015 – D. Hoffmann:** *Festkörper und Diodenlaser für das Schweißen von Kunststoffen, SKZ, Würzburg*
- 09.12.2015 – R. Noll:** *Recycling von Mobiltelefonen, Fraunhofer IT-Manager-Tagung, Fulda, Deutschland*
- 16.12.2015 – G. Rolink:** *Laser Based Additive Manufacturing of Fe-Al Alloys for High Temperature Applications, AMPT, Madrid, Spanien*