

Conference schedule LU2016, Linz, Austria

MONDAY 4. July 2016		
08:00 – 09:30	REGISTRATION	
09:30 – 10:10	OPENING	
10:10 – 11:10	Plenary talk: Keith Nelson Coherent acoustics from MHz to THz, from ripple to shock	
11:10 – 11:30	COFFEE BREAK	
	Session 1A: Ultrasound Generation Chair: Christ Glorieux	Session 1B: Novel Instrumentation Chair: Jean-Pierre Monchalin
11:30 – 11:50	1A.1: Application of statistically streamlined Huygens' principle and Green's function formalism in laser-ultrasonics modelling: <i>Jernej Laloš, Tomaž Požar, Janez Možina</i>	1B.1: Residual stress characterization in metals with laser-generated surface waves and point-like Sagnac detector: <i>Lukasz Ambrozinski, Ivan Pelivanov, Michael B. Prime, Matthew O'Donnell</i>
11:50 – 12:10	1A.2: Filamentation of ultra-short laser pulse in water for acoustic wave generation: <i>A. Houard, V. Jukna, C. Milián, A. Jarnac, Y. Brelet, R. Guillermin, J.-P. Sessarego, D. Fattaccioni, A. Mysyrowicz, A. Couairon</i>	1B.2: In situ Noninvasive Ultrasonic Measurement of Heat Flux through a Heated Solid Surface: <i>Ikuo Ihara, Shingo Isobe, Yudai Honma, Iwao Matsuya, Yuya Ichige</i>
12:10 – 12:30	1A.3: Light-pressure-induced ultrasound: <i>Tomaž Požar, Aleš Babnik, Janez Možina</i>	1B.3: Laser ultrasound profilometry of solid materials in real-time: <i>Alexander Karabutov, Vasily Zarubin, Varvara Simonova, Alexey Zharinov, Igor Kudinov</i>
12:30 – 13:50	LUNCH	
	Session 2A: Guided waves 1 Chair: Istvan Veres	Session 2B: Materials characterization 1 Chair: Hanus Seiner
13:50 – 14:20	2A.1: Keynote talk Laser induced resonances in elastic wave guides: <i>Claire Prada, J. Laurent, F. Bruno, S. Mezil, S. Raetz, P. Jehanno et D. Royer</i>	2B.1: Keynote talk Laser ultrasonic measurements of austenite formation and grain growth in a low-carbon steel: <i>Thomas Garcin, Keiji Ueda, Matthias Militzer</i>
14:20 – 14:40	2A.2: Negative Refraction and Reflection of Lamb Waves: <i>Todd W. Murray, Clemens Grunsteidl, David M. Stobbe, Istvan A. Veres</i>	2B.2: Characterisation of microstructural changes of heated Ti-6Al alloys by laser ultrasonics and comparison with HEXRD: <i>Irina Hinterlechner, Bernhard Reitingner, Julian Stangl, Thomas Fromherz, Pere Barriobero Vila, Peter Burgholzer</i>
14:40 – 15:00	2A.3: Full geometric and elastic characterization of plates using ZGV Lamb waves: <i>Clemens Grünsteidl, Istvan A. Veres</i>	2B.3: Characterization of ferroelastic materials by laser-ultrasonic methods: <i>Michal Landa, Hanuš Seiner, Petr Sedlák, Pavla Stoklasová, Tomáš Grabec, Martin Ševčík, Jan Zídek</i>
15:00 – 15:20	2A.4: Experimental complex dispersion curve by use of spatial Laplace transform: application to ZGV Lamb modes: <i>Guqi Yan, Samuel Raetz, Jean-Philippe Groby, Aroune Duclos, Alan Geslain, Nikolay Chigarev, Vincent Tournat</i>	2B.4: Exploration of Crystallographic Topography for Hexagonal Structure Materials by Spatially Resolved Acoustic Spectroscopy: <i>Matt Clark, Wenqi Li, Paul Marrow, Steven J Lainé, Richard J Smith, Steve D Sharples</i>

15:20 – 15:50	COFFEE BREAK	
	Session 3A: Guided waves 2 Chair: Claire Prada	Session 3B: Materials characterization 2 Chair: Michal Landa
15:50 – 16:10	3A.1: Elastic characterization of polymer fiber by laser ultrasonics: <i>L. Labelle, N.B. Roozen, J. Vandebroeck, X. Xu, C. Glorieux</i>	3B.1: Detection of Coarse Grain Regions in a Nickel-based Alloy with Laser Ultrasound: <i>Robert Seyrkammer, Bernd Oberwinkler, Saeid Zamiri, Bernhard Reitingner, Peter Burgholzer</i>
16:10 – 16:30	3A.2: Adaptive focusing of ultrasound shear waves using laser beam shaping from an arbitrary input: <i>Felix Schmieder, Lars Büttner, Jürgen Czarstke</i>	3B.2: Relating Laser-Ultrasonics (LUS) Measurements to Anisotropy and Texture in Metals: <i>Peter Lundin, Pete Bate, Eva Lindh-Ulmgren, Bevis Hutchinson</i>
16:30 – 16:50	3A.3: High frequency Guided waves propagation in aerospace structures and interaction with defects – numerical and experimental results: <i>Christophe Travaglini, Christophe Bescond, Silvio E. Kruger, Pierre Bélanger, Martin Viens, Jean-Pierre Monchalín</i>	3B.3: In-situ observation of structural processes in materials by non-contact resonant ultrasound spectroscopy: <i>Petr Sedlák, Hanuš Seiner, Martin Koller, Michaela Janovská, Jitka Nejezchlebová, Michal Landa</i>
16:50 – 17:10	3A.4: Laser ultrasonic testing system for surface/internal flaw inspection of materials: <i>Xiaodong Xu, Liping Cheng, Jichuan Xiong, Christ Glorieux</i>	3B.4: Laser ultrasound testing of CFRP composites with heterogeneities: <i>Alexander Karabutov, Elena Mironova, Varvara Simonova, Alexey Zharinov, Igor Kudinov</i>
17:10 – 17:30	3A.5: Defect detection with liquid loading by using laser generated single S₀ mode: <i>Qingnan Xie, Zheng Li, Zhonghua Shen</i>	3B.5: Application of laser ultrasonics to characterize Tungsten material response in the field of plasma material interactions in nuclear fusion: <i>H.T. Lee</i>
18:00 – 22:00	WELCOME RECEPTION by the lake Wuzzl-Tournament	

TUESDAY 5. July-2016		
08:00 – 09:00	REGISTRATION	
	Session 4A: Photoacoustic Imaging 1 Chair: Ben Cox	Session 4B: Acoustic waves Chair: Zhonghua Shen
09:00 – 10:00	Plenary Talk: Daniel Razansky The promise of large-scale brain recording with functional optoacoustic neuro-tomography	
10:00 – 10:20	4A.1: 3D Acousto-optical detection of hidden objects via speckle based imaging: <i>Aner Lev, Bruno Sfez</i>	4B.1: Three different cases of observation of Slow Solitary Elastic Wave (SSEW) with discrete velocities in the glass. I. Laser excited SSEW components moving across the front part of cylindrical sample: <i>Eugene Kudriavtsev, Vladimir Roshchupkin</i>
10:20 – 10:40	4A.2: Three-dimensional photoacoustic tomography with a piezoelectric line detector array: <i>Günther Paltauf, Georgi Kovachev, Robert Nuster</i>	4B.2: Surface acoustic wave based characterization of randomly distributed surface cracks: <i>Roland Galos, Saeid Zamiri, Peter Burgholzer, Maria Korotyayeva, István A Veres</i>
10:40 – 11:10	COFFEE BREAK	
	Session 5A: Biomedical Photoacoustics 1 Chair: Peter Burgholzer	Session 5B: Non-linear 1 Chair: Chi-Kuang Sun
11:10 – 11:40 11:10 – 11:30	5A.1: Keynote talk Cell imaging with nano-ulasonics: <i>Matt Clark, Rafael Fuentes, Leonel Marques, Emilia Moradi, Fernando Pérez-Cota, Richard J. Smith, Kevin F. Webb</i>	5B.1: Finite element analysis of residual stress in laser ultrasonic measurement based on equivalent load model: <i>Yu Zhan, Changsheng Liu, Zhongya Lin, Ximing Zhao</i>
11:40 – 12:00 11:30 – 11:50	5A.2: A Focused Optical Ultrasound Transmitter for Interventional Imaging: <i>Erwin J. Alles, Sacha Noimark, Adrien E. Desjardins</i>	5B.2: Inspecting stress-strain nonlinearity of ferroelastic single crystals by laser-induced ultrasonic vibrations: <i>Hanuš Seiner, Petr Sedlák, Oleg Heczko, Ladislav Straka, Michal Landa</i>
12:00 – 12:20 11:50 – 12:10	5A.3: Cell investigations using picosecond laser ultrasound imaging: <i>Fernando Pérez-Cota, Richard J. Smith, Emilia Moradi, Leonel Marques, Kevin Webb, Virginie Sottile, Matt Clark</i>	5B.3: Amplitude fluctuation in the harmonic wave generated by acoustic nonlinearity of a surface wave depending on propagation distance: <i>Jihyun Jun, Hogeon Seo, Kyung-Young Jhang</i>
12:10 – 12:30		5B.4: Noncontact Acoustic Nonlinearity Evaluation of Surface Acoustic Waves on Heat-treated Aluminum Alloys: <i>Hogeon Seo, Jihyun Jun, Kyung-Young Jhang</i>
12:30 – 12:40	FOTO	
12:40 – 14:00	LUNCH	
	Session 6A: Biomedical Photoacoustics 2 Chair: Matt Clark	Session 6B: Non-linear 2 Chair: Thomas Garcin
14:00 – 14:20	6A.1: In-vivo measurement of the speed of sound in bones via multi-spectral photoacoustics and quantitative ultrasound: <i>Idan Steinberg, Lihi Shiloh, Avishay Eyal</i>	6B.1: Nonlinear behavior of laser-generated high-amplitude acoustic wave in damaged/cracked metallic sample: <i>Chen-Yin Ni, Alexey Lomonosov, Zhi-Hong Xu, Vitalyi E. Gusev, Zhong-Hua Shen</i>

14:20 – 14:40	6A.2: Feasibility of temperature control during retinal laser photocoagulation using optoacoustic method: <i><u>Svetlana Shmeleva</u>, Andrey Larichev, Alexander Karabutov, Varvara Simonova, Anton Lytkin, Vladimir Sipliviy, Andrey Bolshunov</i>	6B.2: Acoustical breakdown of materials by focused surface acoustic waves generated by laser pulses: <i><u>David Veysset</u>, Alex A. Maznev, István A. Veres, Thomas Pezeril, Steven Kooi, Alexey M. Lomonosov, Keith A. Nelson</i>
14:40 – 15:40	Short Poster Presentation	
15:40 – 18:00	POSTER SESSION + LAB TOUR + COFFEE BREAK Science Park 2	

WEDNESDAY 6. July-2016		
08:00 – 09:00	REGISTRATION	
09:00 – 09:45	OPENING INDUSTRY DAY	
	Session 7B: LUS Instrumentation + Industrial Applications Chair: Bernhard Reitinger	
09:45 – 10:10	7B.1: Tecnar, Marc Choquet	
10:10 – 10:30	7B.2: Swerea, Peter Lundin	
10:30 – 10:50	COFFEE BREAK	
	Session 7B: LUS Instrumentation + Industrial Applications Chair: Bernhard Reitinger	
10:50 – 11:10	7B.3: University of Nottingham, Matt Clark	
11:10 – 11:35	7B.4: BossaNova Technologies, Mickael Messaoudi	
11:35 – 11:55	7B.5: KU Leuven, Christ Glorieux	
11:55 – 12:15	7B.6: Intelligent Optical Systems, Marvin Klein	
12:15 – 13:30	LUNCH	
	Session 8B: Industrial applications of LUS Chair: Robert Holzer	
13:30 – 13:50	8B.1: TIM talk	
13:50 – 14:20	8B.2: RECENDT NDE talk, Bernhard Reitinger	
14:20 – 14:40	8B.3: Toshiba, Takeshi Hoshi	
14:40 – 15:00	8B.4: CNRC, Jean-Pierre Monchalin	
15:00 – 17:00	Time to go to the city by tram	Networking + buffet
16:00 – 18:30	LINZ TOUR	
18:30 – 23:00	CONFERENCE BANQUET	

THURSDAY 7. July 2016		
08:30 – 09:00	REGISTRATION	
	Session 9A: Flaw detection Chair: Takeshi Hoshi	Session 9B: Complex media 1 Chair: Osamu Matsuda
09:00 – 10:00	Plenary talk: Jean-Pierre Monchalin Applications of laser-ultrasonics in industry: review and perspectives	
10:00 – 10:20	9A.1: Development of highly flexible laser ultrasound joint testing equipment towards an industrial production line: <i>Michael Stückler, Thomas Mitter, Jürgen Roither, Bernhard Reitingger, Christian Hofer, Christian Riedler, Harald Sehrschön, Ermal Mukeli, Jürgen Taucher</i>	9B.1: Contact-based vibrational dynamics of a highly ordered microsphere monolayer studied with laser-induced transient grating method: <i>A. Vega-Flick, R. Duncan, A. A. Maznev, S. Wallen, N. Boechler, C. Stelling, M. Retsch, J. J. Alvarado-Gil, K. A. Nelson</i>
10:20 – 10:40	9A.2: Laser ultrasonic inspection of as-deposited AM samples: <i>Rikesh Patel, Matthias Hirsch, Richard J. Smith, Samuel Achamfuo-Yeboah, Adam Clar, Steve D. Sharples</i>	9B.2: Surface acoustic mode imaging of a microsphere-based metamaterial: <i>Paul H. Otsuka, Sylvain Mezil, Vitalyi Gusev, Osamu Matsuda, Motonobu Tomoda, Tian Gian, Nicholas Boechler, Alex A. Maznev, Nicholas Fang, Oliver B. Wright</i>
10:40 – 11:10	COFFEE BREAK	
	Session 10A: Photoacoustic Imaging 2 Chair: Thomas Berer	Session 10B: Complex media 2 Chair: Sylvain Mezil
11:10 – 11:30	10A.1: Simultaneous photoacoustic and fluorescence microscopy using a modulated diode laser: <i>Gregor Langer, Bianca Buchegger, Jaroslav Jacak, Thomas A. Klar, Thomas Berer</i>	10B.1: Simulations of acoustic waves in hypersonic phononic crystals: <i>Yuning Guo, Thomas Dekorsy</i>
11:30 – 11:50	10A.2: 2D real-time optoacoustic and laser-induced ultrasound tomography system: biomedical application: <i>Alexander Karabutov, Anton Bychkov, Varvara Simonova, Alexey Zharinov, Igor Kudinov</i>	10B.2: Influence of topology on elastic properties and phonon propagation of particle brushes: <i>E. Alonso-Redondo, Z. Urbach, M. Schmitt, R. Sainidou, P. Rembert, M. Bockstaller, K. Matyjaszewski, G. Fytas</i>
11:50 – 12:10	10A.3: In vivo photoacoustic imaging of a phytochrome-based reporter protein: <i>J. Märk, H. Dortay, A. Wagener, T. Friedrich, C. Grötzinger, J. Laufer</i>	10B.3: Ultrafast acoustic modulation of a split-ring-resonator metamaterial: <i>Yuta Imade, Ronald Ulbricht, Motonobu Tomoda, Osamu Matsuda, Gediminas Seniutinas, Saulius Juodkazis, Oliver B. Wright</i>
12:10 – 13:30	LUNCH	
	Session 11A: Ultrafast 1 Chair: Oliver Wright	Session 11B: Photoacoustic Reconstruction Chair: Günther Paltauf
13:30 – 14:00	11A.1: Invited talk Laser Ultrasonics in High Pressure Research: from Measurements of Material Parameters towards Imaging of its Inhomogeneity and Structural Transitions: <i>Vitalyi E. Gusev, Nikolay Chigarev, Maju Kuriakose, Samuel Raetz, Vincent Tournat, Alain Bulou, Bernard Castagnede, Andreas Zerr</i>	11B.1: Keynote talk Photoacoustic Imaging with Planar Detection Arrays: <i>Ben Cox</i>

14:00 – 14:20	11A.2: Single cell ultrasonography to image inhomogeneous cell impedance and adhesion: <i>Maroun Abi Ghanem, Thomas Dehoux, Marie-Christine Durrieu, Bertrand Audoin</i>	11B.2: On time reversal in PAT for tissue similar to water: <i>Richard Kowar</i>
14:20 – 14:40	11A.3: Structural Characterization of InGaN/GaN Superlattice by Laser Generated THz Acoustic Waves: <i>Jateen Gandhi, Alexei Maznev, Hyun Doug Shin, Keith Nelson, Rebecca Forrest, Abdelhak Bensaoula, Donna Stokes</i>	11B.3: The universal back-projection formula for photoacoustic tomography in general geometry: <i>Serqiy Pereverzyev Jr., Markus Haltmeier</i>
14:40 – 15:00	11A.4: Dynamic photorefractive interferometry and 3D super resolution imaging of sound fields: <i>Jichuan Xiong, Xiaodong Xu, Kaleem Ullah, Xuefeng Liu</i>	11B.4: Compressed sensing techniques in photoacoustic tomography: <i>Markus Haltmeier, Thomas Berer, Peter Burgholzer</i>
15:00 – 15:20	COFFEE BREAK	
15:20 – 16:20	FUTURE SYMPOSIA Planning Meeting	
	Session 12A: Ultrafast 2 Chair: Bertrand Audoin	Session 12B: PA Novel detectors + LUS Novel Instrumentation Chair: Todd Murray
16:20 – 16:50 16:20 – 16:40	12A.1: Keynote talk Watching waves confined in phononic cavities: <i>Oliver Wright, Paul Otsuka, Sylvain Mezil, Osamu Matsuda, Motonobu Tomoda, Ryota Chinbe, Shogo Kaneko, Kenji Ishikawa, Kazuki Chonan, Yukihiro Tanaka, Sihan Kim, Heonsu Jeon, Thomas Dehoux, Masazumi Fujiwara, Shigeki Takeuchi, Istvan Veres, Sam H. Lee, Vitalyi Gusev</i>	12B.1: Multimodal non-contact photoacoustic and OCT imaging system, extended by mid-IR photoacoustic spectroscopy: <i>Elisabeth Leiss-Holzinger, Markus Brandstetter, Gregor Langer, Andreas Buchsbaum, Peter Burgholzer, Bernhard Lendl, Thomas Berer</i>
16:50 – 17:10 16:40 – 17:00	12A.2: Time-resolved two-dimensional imaging of gigahertz surface acoustic waves at arbitrary frequencies with an asynchronous pulsed-optical probing: <i>Osamu Matsuda, Hirofumi Shono, Shun Kato, Shogo Kaneko, Sylvain Mezil, Motonobu Tomoda, Oliver B. Wright</i>	12B.2: Photoacoustic Thermo-tomography: <i>Meng Lei, Christ Glorieux</i>
17:10 – 17:30 17:00 – 17:20	12A.3: Laser Excitation of Gigahertz Vibrations in Tobacco Mosaic Viruses: <i>Anna Kudryavtseva, Olga Karpova, Sergey Pershin, Ekaterina Petrova, Nikolay Tcherniega, Konstantin Zemskov</i>	12B.3: Focused ultrasound sensing in water using a GCLAD system: <i>James N. Caron</i>
17:30 – 17:50 17:20 – 17:40	12A.4: Spatio-frequency control of GHz acoustic whispering-gallery Modes: <i>Sylvain Mezil, Kentaro Fujita, Motonobu Tomoda, Matt Clark, Oliver B. Wright, Osamu Matsuda</i>	12B.4: Industrial applications of Colored Picosecond Acoustics (APiC): <i>Arnaud Devos, Arnaud Le Louarn, Patrick Emery</i>
17:40 – 18:00		12B.5: Detecting weak acoustic field by adaptive distributed fiber-optic sensory network: <i>Roman Romashko, Mikhail Bezruk, Sergei Ermolaev, Dmitry Storozhenko, Yuri Kulchin</i>

FRIDAY 8. July 2016		
08:30 – 09:00	REGISTRATION	
	Session 13A: Ultrafast + Thin films Chair: Vitalyi Gusev	Session 13B: Flaw detection + Advanced Sensing 1 Chair: Ivan Pelivanov
09:00 – 09:30	13A.1: Invited talk All-optical Thermomechanical Nanometrology at Interfaces: <i>Novel Schemes</i> : <i>Simone Peli, Marco Travagliati, Damiano Nardi, Claudio Giannetti, Vitalyi Gusev, Gabriele Ferrini, <u>Francesco Banfi</u></i>	13B.1: Keynote talk In-Process Imaging of Molten Pool Configuration : <i>Takeshi Hoshi, Azusa Sugawara, Setsu Yamamoto, Makoto Ochiai, Tsuyoshi Ogawa, Rie Aizawa, Satoru Asai, Kazufumi Nomura</i>
09:30 – 09:50	13A.2: <i>In Situ</i> Nanoultrasonic Imaging of Anodic Oxidation during Photoelectrochemical Water Splitting : <i>Chi-Kuang Sun, Meng-Yu Weng</i>	13B.2: Laser Ultrasonics Systems for Inspection of Aeronautical Components are moving forward to Industrialization : <i>Covadonga Garcia Ramos, <u>Esmeralda Cuevas Aguado</u></i>
09:50 – 10:10	13A.3: Viscoelastic properties of confined polymer nanolayers : <i>Mike Hettich, Karl Jacob, Oliver Ristow, Martin Schubert, Axel Bruchhausen, <u>Vitalyi Gusev</u>, Thomas Dekorsy</i>	13B.3: Numerical analysis of laser ultrasound propagation excited by mid IR light source in CFRP : <i>Kanae Oquchi, Manabu Enoki, Hisashi Yamawaki, Hideki Hatano, Makoto Watanabe</i>
10:10 – 10:30	13A.4: Nanoscale in-depth imaging of mechanical and optical properties with a high numerical aperture objective lens : <i>Motonobu Tomoda, Akihisa Kubota, Kentaro Fujita, Osamu Matsuda, Oliver B. Wright</i>	13B.4: Effect of the generation beam shape of laser ultrasonic systems: experimental comparison between ring and disk shapes : <i>Fabian Languy, <u>Jean-François Vandenrijt</u>, Marc P. Georges</i>
10:30 – 11:00	COFFEE BREAK	
	Session 14A: Nanoscale Chair: Francesco Banfi	Session 14B: Flaw detection + Advanced Sensing 1 Chair: Bernhard Reitingner
11:00 – 11:20 11:00 – 11:30	14A.1: Imaging of Laser-Induced Spatially Localized Structural Transformations in High Pressure Ice : <i>Maju Kuriakose, Samuel Raetz, Nikolay Chigarev, Vincent Tournat, Alain Bulou, Bernard Castagnede, Andreas Zerr, Vitalyi E. Gusev</i>	14B.1: Invited talk Imaging of impact damage in CFRP composites with a fiber-optic laser-ultrasound scanner : <i>Lukasz Ambrozinski, <u>Ivan Pelivanov</u>, Solver Thorsson, Anthony Waas, Matthew O'Donnell</i>
11:20 – 11:40 11:30 – 11:50	14A.2: Optical and mechanical properties of nano spherical acoustic transducers : <i>Rafael Fuentes Dominguez, Richard J. Smith, Leonel Marques, Fernando Perez Cota, Matt Clark</i>	14B.2: Laser ultrasonic method for weld joints monitoring : <i>Saeid Zamiri, Bernhard Reitingner, Peter Burgholzer</i>
11:40 – 12:00 11:50 – 12:10	14A.3: Laser Ultrasonic Characterization of Diverse Tungsten Stack Configurations : <i>Eva Grünwald, Robert Nuster, Stefan Defregger, Roland Brunner</i>	14B.3: Fiber optic ultrasonic generator/receiver for ultrasonic measurements at the tip of a needle : <i>Mitra Soorani, Richard J Smith, Fernando Perez Cota, Matt Clark</i>
12:10 – 12:40	AWARD + CLOSING CEREMONY	
12:40 – 14:00	FAREWELL LUNCH	

Poster session:

Tuesday, July 5th, 2016; 15:30-18:00; room S2 048, Science Park 2

P1: Hypersound Attenuation Caused by Scattering in Polycrystalline Argon at High Pressures

Maju Kuriakose, Samuel Raetz, Nikolay Chigarev, Vincent Tournat, Alain Bulou, Bernard Castagnede, Andreas Zerr, Vitalyi E. Gusev

P2: Epicentral thermoelastic waves in plates generated by a laser source of varying spot-size

Jernej Laloš, Aleš Babnik, Tomaž Požar

P3: Laser ultrasound testing of CFRP composite strings mechanical properties

Alexander Karabutov, Yulia Sokolovskaya, Varvara Simonova, Alexey Zharinov, Igor Kudinov

P4: Relationship between Surface Roughness and Laser Ultrasonic Amplitude

Jin-Gyum Kim, Kyung-Young Jhang, Kyungcho Kim, Seung-Hoon Ahn, Myungjo Jhung

P5: Numerical Simulation of Laser Ultrasonics Reflected Wave: Applied to Detect Surface Defects Depth

Hui Liu, Bin Zheng, Zhaoba Wang, Hualing Guo

P6: Investigation of surface acoustic wave attenuation in coated polycrystalline metal sheets

Martin Rzyz, Tomáš Grabec, István A. Veres

P7: Laser-ultrasound evaluation of heat damage in carbon fiber-reinforced composite

Ivan Pelivanov, Łukasz Ambrozinski, Matthew O'Donnell

P8: Gas-Coupled Laser Acoustic Detection for Photoacoustic Sensing

Jami L. Johnson, Kasper van Wijk, James N. Caron, Miriam Timmerman

P9: Performances comparison of a laser ultrasonic system using 10.6 μm infrared or 532 nm visible generation beam for the investigation of CFRP

Jean-François Vandenrijt, Julien Walter, Tomy Brouillette, Marc P. Georges

P10: LUCITA system for non-contact NDT at high production rate

Benjamin Campagne, Benjamin Courtois, Louis Le-Pinru, Elisabeth Lys

P11: Quasi-distributed ultrasound fiber sensing for recording of bats

Nina Shpalensky, Shaul Ozeri, Yossi Yovel, Avishay Eyal

P12: Ultrasonic guided wave based disbond detection in a honeycomb composite sandwich structure using piezoelectric sensors

Shirsendu Sikdar, Sauvik Banerjee

P13: Optically Modulated Laser Ultrasound using a Fibre-Based Side-Looking Source

Erwin J Alles, Richard J Colchester, Sacha Noimark, Adrien E Desjardins

P14: Three different cases of observation of Slow Solitary Elastic Wave (SSEW) with discrete velocities in the glass. II. Crack excited SSEW components in the plate shape sample

Eugene Kudriavtsev, Vladimir Roshchupkin

P15: Three different cases of observation of Slow Solitary Elastic Wave (SSEW) with discrete velocities in the glass. III. SSEW components moving along the cylindrical sample

Eugene Kudriavtsev, Vladimir Roshchupkin

P16: Imaging in three dimensions with picosecond laser ultrasound

Richard J Smith, Fernando Perez Cota, Leonel Marques, Matt Clark

P17: Acoustic lens detection of photoacoustic signal

Meng Lei, N.B. Roozen, Salvador Alvarado, Mark Van der Auweraer, Christ Glorieux

P18: Three-dimensional theoretical study for the evaluate of early caries using Rayleigh wave generated by laser ultrasonic technique

Mei Song, Yuan Ling, Shen Zhonghua, Zhu Qingping, Yang Zhehua, Ni Xiaowu, Lu Jian

P19: Control of the Rayleigh wave propagation with a resonant metawedge: a practical concept demonstration of seismic metamaterials

Victoria Ageeva, Andrea Colombi, Adam Clare, Richard V. Craster, Rikesh Patel, Philippe Roux, Richard J. Smith, Matt Clark

P 20: Ultrasonic oscillations measurement of CNC tools using laser vibrometry

Piotr Nazarko, Roman Wdowik

P21: Testing of Joints with Laser Ultrasound Technology

Michael Stückler, Thomas Mitter, Jürgen Roither, Bernhard Reitingger, Peter Burgholzer

Venue:

JKU - Johannes Kepler University Linz

Science Park 3

Plenary sessions in room HS18

Parallel Sessions in rooms HS18 and HS 19

Industry day in room HS 19

Exhibition in the Foyer of Science Park 3

Poster Session and coffee break in Science Park 2, room S2 048

Lab Tour in Science Park 2, RECENTD Labs

