

Optical Fabrication, Testing, and Metrology VI

Tuesday - Thursday 15 - 17 May 2018

Conference Sessions At A Glance

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Tuesday Plenary Session
1: Optical Systems
2: Microoptics
3: Space Optics
4: Gratings and Functional Surfaces
 Poster Session
 Wednesday Plenary Session
5: Freeforms
6: Low-Loss Optics and Metrology
 International Day of Light Special Event
7: Optical Fabrication
8: Metrology I
9: Metrology II

Important Dates

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Abstract Due:
 15 November 2017

Author Notification:
 8 January 2018

Manuscript Due Date:
 18 April 2018

Conference Committee

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Conference Chairs

[Sven Schröder](#), Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany)
[Roland Gevl](#), Safran Reosc (France)

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TUESDAY 15 MAY
[Show All Abstracts](#)

Session Plen: Tuesday Plenary Session

Tuesday 15 May 2018
 8:00 AM - 8:45 AM
 Location: Europa 1

Demystifying etendue (Plenary Presentation)

Paper 10690-501
 Time: 8:00 AM - 8:45 AM
 Author(s): Bill J. Cassarly, Synopsys, Inc. (United States)

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Opening Remarks

Tuesday 15 May 2018
 9:00 AM - 9:05 AM
 Location: Concorde

Session Chair: [Sven Schröder](#), Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany)

Session 1: Optical Systems

Tuesday 15 May 2018

9:05 AM - 10:15 AM

Location: Concorde


Session Chair: [Peter Hartmann](#), SCHOTT AG (Germany)

Optical window detachment using a 3-axis hotwire system *(Invited Paper)*

Paper 10692-1

Time: 9:05 AM - 9:35 AM

Author(s): Saar Zomerstein, Yarden Weber, Shay Joseph, Avichai Levi, Doron Yadlovker, Arit-Eva Shinman-Avraham, Rafael Advanced Defense Systems Ltd. (Israel)


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Automated centration measurement and quality inspection of aspheric lenses

Paper 10692-2

Time: 9:35 AM - 9:55 AM

Author(s): Felix Hahne, Patrik Langehanenberg, TRIOPTICS GmbH (Germany)


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Mechanical strength of optical glasses

Paper 10692-3

Time: 9:55 AM - 10:15 AM

Author(s): Peter Hartmann, SCHOTT AG (Germany)

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Coffee Break 10:15 AM - 10:40 AM

Session 2: Microoptics

Tuesday 15 May 2018

10:40 AM - 12:00 PM

Location: Concorde


Session Chair: [Reinhard Voelkel](#), SUSS MicroOptics SA (Switzerland)

Tunable diffractive Moiré lenses

Paper 10692-4

Time: 10:40 AM - 11:00 AM

Author(s): Stefan Bernet, Martin Bawart, Monika Ritsch-Marte, Medizinische Univ. Innsbruck (Austria)


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Evaluation of lenslet fabrication technologies for micro-optical array projectors

Paper 10692-5

Time: 11:00 AM - 11:20 AM

Author(s): Robert Leitel, Stephanie Fischer, Peter Dannberg, Sylke Kleinle, Peter Schreiber, Christoph Wächter, Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany)


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Improved calibration of vertical scanning optical profilometers for spherical profiles measurements

Paper 10692-6

Time: 11:20 AM - 11:40 AM

Author(s): Jeremy Béguelin, SUSS MicroOptics SA (Switzerland); Toralf Scharf, Ecole Polytechnique Fédérale de Lausanne (Switzerland); Wilfried Noell, Reinhard Voelkel, SUSS MicroOptics SA (Switzerland)


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Holographic prism based on photo-thermo-refractive glass: new facilities for metrological application

Paper 10692-7

Time: 11:40 AM - 12:00 PM

Author(s): Aleksandr Angervaks, ITMO Univ. (Russian Federation); Konstantin Gorokhovskiy, Valerii Granovskii, Concern CSRI Elektropribor, JSC (Russian Federation); Van Bak Doan, Sergey Ivanov, Roman Okun, Nikolay Nikonov, Aleksandr Ryskin, ITMO Univ. (Russian Federation)

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Lunch Break 12:00 PM - 1:20 PM

Session 3: Space Optics

Tuesday 15 May 2018

1:20 PM - 3:10 PM

Location: Concorde


Session Chair: [Monika Kroneberger](#), OHB-System AG (Germany)

World Space Observatory - Ultraviolet Mission: instrumentation update and status 2018 (*Invited Paper*)

Paper 10692-8

Time: 1:20 PM - 1:50 PM

Author(s): Mikhail Sachkov, Institute of Astronomy (Russian Federation)

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Freeform optics design and manufacturing for MicroCarb

Paper 10692-9

Time: 1:50 PM - 2:10 PM

Author(s): Roland Geyl, Eric Ruch, Hervé Leplan, F. Riguet, Safran Reosc (France); Sebastien LOPEZ, Airbus Defense & Space (France)

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EUCLID: design, analysis, fabrication, and test of a 1.3m collimator for the on-ground characterization of the EUCLID Payload Module

Paper 10692-10

Time: 2:10 PM - 2:30 PM

Author(s): Olivier Pimay, Grégory P. Lousberg, Virgile Monamy, Pierre Gloesener, Katja Rieth, Fabien Lemagne, Carlo Flebus, AMOS Ltd. (Belgium)


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Additive manufacturing of metal mirrors for TMA telescope

Paper 10692-11

Time: 2:30 PM - 2:50 PM

Author(s): Nils Heidler, Enrico Hilpert, Johannes Hartung, Henrik von Lukowicz, Christoph Damm, Thomas Peschel, Stefan Risse, Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany)


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The MTG-SSA multi-purpose and multi-wavelength infrared test bench

Paper 10692-12

Time: 2:50 PM - 3:10 PM

Author(s): Francois Riguet, Frédéric Barré, Romain Berruée, Christophe Cloutrier, Laurent-Daniel Haret, Thierry Haumont, Vincent Hugues, Manon Koszo, Denis Monaci, Fabien Moreau, Bertrand Plainchamp, Jacques Rodolfo, Safran Reosc (France)

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Coffee Break 3:10 PM - 3:40 PM

Session 4: Gratings and Functional Surfaces

Tuesday 15 May 2018

3:40 PM - 6:00 PM

Location: Concorde


Session Chair: [Robert Leitel](#), Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany)

Simulation of defect-induced scattering in multilayer coatings (*Invited Paper*)

Paper 10692-13

Time: 3:40 PM - 4:10 PM

Author(s): Lei Zhang, Jinlong Zhang, Tongji Univ (China); Sven Schröder, Marcus Trost, Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany); Hongfei Jiao, Zhanshan Wang, Xinbin Cheng, Tongji Univ. (China)

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Robust multifunctional optics for underwater applications

Paper 10692-14

Time: 4:10 PM - 4:30 PM

Author(s): Nadja Felde, Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany), Friedrich-Schiller-Univ. (Germany); Luisa Coriand, Sven Schröder, Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany); Andreas Tünnermann, Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany), Friedrich-Schiller-Univ. (Germany)


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Scattering from reflective diffraction gratings: the challenges of measurement and verification (*Invited Paper*)

Paper 10692-15

Time: 4:30 PM - 5:00 PM

Author(s): Monika Kroneberger, Andreas Mezger, Jean-Baptiste Volatier, OHB-System AG (Germany)


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Optical gratings with low wavefront aberrations and low straylight for enhanced spectroscopical applications

Paper 10692-16

Time: 5:00 PM - 5:20 PM

Author(s): Torsten Diehl, Peter Triebel, Tobias Moeller, Carl Zeiss Spectroscopy GmbH (Germany); Alexandre Gatto, Dennis Lehr, Alexander Pesch, Lars Erdmann, Matthias Burkhardt, Alexander Kalies, Felix Koch, Carl Zeiss Jena GmbH (Germany)


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Diffuse scattering of lamellar optical gratings due to line edge roughness

Paper 10692-17

Time: 5:20 PM - 5:40 PM

Author(s): Martin Heusinger, Friedrich-Schiller-Univ. Jena (Germany); Michael Banasch, Vistec Electron Beam GmbH (Germany); Dirk Michaelis, Thomas Flügel-Paul, Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany); Uwe D. Zeitner, Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany), Friedrich-Schiller-Univ. Jena (Germany)

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Development of high accuracy in-situ measurement system for spectral reflectance of thermal control coatings (Canceled)

Paper 10692-18

Time: 5:40 PM - 6:00 PM

Author(s):

Session PWed: Poster Session

Tuesday 15 May 2018

6:00 PM - 7:30 PM

Location: Foyer Connecting Hall 4 to Hall 3


Conference attendees are invited to attend the joint poster session to network, enjoy light refreshments, and view the poster papers. Attendees are required to wear their conference registration badge. Authors of poster papers will be present to answer questions concerning their papers. Poster authors must set up their poster between 10:00 and 16:00 on Tuesday 15 May. [View poster presentation guidelines.](#)

Modeling of luminous stream in photovoltaic systems

Paper 10692-43

Time: 6:00 PM - 7:30 PM

Author(s): Kamil Plachta, Wroclaw Univ. of Science and Technology (Poland)


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The study of sub-surface damage of fused silica after ultrasonic assisted grinding process

Paper 10692-44

Time: 6:00 PM - 7:30 PM

Author(s): Ching-Hsiang Kuo, Chien-Yao Huang, Zong-Ru Yu, Shyu-Cheng Shu, Keng-Shou Chang, Instrument Technology Research Ctr. (Taiwan)


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Analysis of method of determination of refractive index and Abbe number of lens

Paper 10692-45

Time: 6:00 PM - 7:30 PM

Author(s): Jiří Novák, Antonín Mikš, Pavel Novák, Petr Pokorný, Filip Šmejkal, Michal Šmejkal, Czech Technical Univ. in Prague (Czech Republic)


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Effect of visibility of the fringes on the tilt measurement using a cyclic interferometer and polarization phase shifting

Paper 10692-46

Time: 6:00 PM - 7:30 PM

Author(s): Valiyaparambil Chacko Pretheesh Kumar, Indian Institute of Technology Madras (India); Charles Joenathan, Ashley Bernal, Rose-Hulman Institute of Technology (United States); Angarai R. Ganesan, Indian Institute of Technology Madras (India)

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The matters of producing optical elements for educational purposes

Paper 10692-47

Time: 6:00 PM - 7:30 PM

Author(s): Maria K. Orekhova, Daria Butova, Nadezhda Tolstoba, Anastasia Kozhina, Ksenia Zavatskaya, Dmitry Lyamets, Alina Belyaeva, Diana Nurpeisova, ITMO Univ. (Russian Federation)


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Hyperspectrometer based on curved prism fabrication for space application

Paper 10692-48

Time: 6:00 PM - 7:30 PM

Author(s): Lei Feng, Academy of Opto-Electronics CAS (China); Jinsong Zhou, Juanjuan Jing, Lidong Wei, Yacan Li, Academy of Opto-Electronics, CAS (China); Lei Yang, Key Lab. of Computational Optical Imaging Technology (China)

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Dynamic null-screens: a proposal for characterizing the PTSC with adaptive patterns

Paper 10692-50

Time: 6:00 PM - 7:30 PM

Author(s): Manuel Campos-García, Andrés Peña-Conzuelo, Ulises Espinoza-Nava, José Rufino Díaz-Urbe, Jesús Alberto Aguirre-Caro, Univ. Nacional Autónoma de México (Mexico)


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Analysis of industrial production environments and derivation of a novel channel model towards optical wireless communication

Paper 10692-51

Time: 6:00 PM - 7:30 PM

Author(s): Daniel Schneider, Holger Flatt, Jürgen Jaspemeite, Fraunhofer-Institut für Optronik, Systemtechnik und Bildauswertung (Germany); Oliver Stübbe, Ostwestfalen-Lippe Univ. of Applied Sciences (Germany)

[Add To My Schedule](#) **WEDNESDAY 16 MAY**[Show All Abstracts](#)**Session Plen:
Wednesday Plenary Session**

Wednesday 16 May 2018

8:00 AM - 8:45 AM


Location: Europa 1

High performance flat optics (*Plenary Presentation*)

Paper 10690-503

Time: 8:00 AM - 8:45 AM

Author(s): Federico Capasso, Harvard John A. Paulson School of Engineering and Applied Sciences (United States)

[Add To My Schedule](#) **Session 5:
Freeforms**

Wednesday 16 May 2018

9:00 AM - 12:30 PM


Location: Concorde

Session Chairs: Pierre Glesener, AMOS Ltd. (Belgium) ; [Francois Riquet](#), Safran Reosc (France)**Novel applications based on freeform technologies** (*Invited Paper*)

Paper 10692-19

Time: 9:00 AM - 9:30 AM


Author(s): Johannes Hartung, Matthias Beier, Stefan Risse, Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany)

[Add To My Schedule](#) **Larger format freeform fabrication and metrology**

Paper 10692-20

Time: 9:30 AM - 9:50 AM


Author(s): Matthew Brunelle, Todd Blalock, Timothy Lynch, Ian Ferralli, Jessica Nelson, Optimax Systems, Inc. (United States)

[Add To My Schedule](#) **Improved ion beam tools for ultra-precision figure correction of curved aluminium mirror surfaces**

Paper 10692-21

Time: 9:50 AM - 10:10 AM


Author(s): Jens Bauer, Melanie Ulitschka, Fred Pietag, Thomas Arnold, Leibniz-Institut für Oberflächenmodifizierung e.V. (Germany)

[Add To My Schedule](#) **Coffee Break 10:10 AM - 10:40 AM****Advanced techniques for robotic polishing of aluminum mirrors**

Paper 10692-22

Time: 10:40 AM - 11:00 AM


Author(s): Hongyu Li, David Walker, Xiao Zheng, Guoyu Yu, Univ. of Huddersfield (United Kingdom); Christina Dunn, Wang Zhang, Univ. College London (United Kingdom); Tony Li, Univ. of Huddersfield (United Kingdom)

[Add To My Schedule](#) **Shape measurement of freeform optics** (*Invited Paper*)

Paper 10692-23

Time: 11:00 AM - 11:30 AM


Author(s): Andreas Beutler, Mahr GmbH (Germany)

[Add To My Schedule](#) **Advanced optical freeform substrates fabricated by ceramic 3D printing and controlled by deflectometry**

Paper 10692-24

Time: 11:30 AM - 11:50 AM

Author(s): Thomas Houllier, Sophia Conseil (France); Nicolas Rousselet, 3DCeram (France); Yves Surrel, Yves Surrel Expertise & Consultancy (France); Thierry Lépine, Lab. Hubert Curien (France)


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Fabrication and measurement of freeform mirror for head-up display system

Paper 10692-25

Time: 11:50 AM - 12:10 PM

Author(s): Yuan-Chieh Cheng, Wei-Jei Peng, Instrument Technology Research Ctr. (Taiwan); Abou-El-Hossein Khaled, Nelson Mandela Metropolitan University (South Africa); Hsiao-Yu Chou, Fong-Zhi Chen, Instrument Technology Research Ctr. (Taiwan)

[Add To My Schedule](#) **Robotic light scattering sensor for large freeform surfaces**

Paper 10692-26

Time: 12:10 PM - 12:30 PM

Author(s): Tobias Herfurth, Marcus Trost, Sven Schröder, Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany)

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Lunch Break 12:30 PM - 2:00 PM

**Session 6:
Low-Loss Optics and Metrology**

Wednesday 16 May 2018

2:00 PM - 3:30 PM


Location: Concorde

Session Chair: [Sven Schröder](#), Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany)**Laser induced deflection (LID): absolute photo-thermal absorption measurement for low-loss optics (Invited Paper)**

Paper 10692-27

Time: 2:00 PM - 2:30 PM


Author(s): Christian Muehlig, Leibniz-Institut für Photonische Technologien e.V. (Germany)

[Add To My Schedule](#) **Fabrication and characterization of large-area crystalline coatings for next-generation gravitational wave detectors**

Paper 10692-28

Time: 2:30 PM - 2:50 PM


Author(s): Christoph Deutsch, Crystalline Mirror Solutions GmbH (Austria); Garrett D. Cole, David Follman, Paula Heu, Crystalline Mirror Solutions, LLC (United States); Dominic Bachmann, Crystalline Mirror Solutions GmbH (Austria); Philip Koch, Harald Lück, Max-Planck-Institut für Gravitationsphysik (Germany); Alexander von Finck, Sven Schröder, Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany); Ashish Rai, Tobias Zederbauer, Crystalline Mirror Solutions GmbH (Austria)

[Add To My Schedule](#) **Scattering issues in the case of two-side coated filters**

Paper 10692-29

Time: 2:50 PM - 3:10 PM


Author(s): Myriam Zerrad, Michel Lequime, Claude Amra, Institut Fresnel (France)

[Add To My Schedule](#) **Spectroscopy of the residual absorption in low-loss bulk optical materials and coatings**

Paper 10692-53

Time: 3:10 PM - 3:30 PM

Author(s): Frank Kühnemann, Jens Kiessling, Fraunhofer IPM (Germany)

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Coffee Break 3:30 PM - 4:00 PM

International Day of Light Special Event

Wednesday 16 May 2018

4:00 PM - 6:00 PM

Location: Foyer Room Europa

THURSDAY 17 MAY[Show All Abstracts](#)

**Session 7:
Optical Fabrication**

Thursday 17 May 2018

8:00 AM - 11:20 AM

Location: Concorde


Session Chair: [Roland Gev](#), Safran Reosc (France)

ESO ELT optical systems: a construction challenge *(Invited Paper)*

Paper 10692-52

Time: 8:00 AM - 8:20 AM


Author(s): Marc Cayrel, European Southern Observatory (Germany)

[Add To My Schedule](#) **Pushing SiC polishing technology for advanced applications**

Paper 10692-30

Time: 8:20 AM - 8:40 AM


Author(s): Roland Geyl, Hervé Leplan, Gilles Chaussat, Safran Reosc (France)

[Add To My Schedule](#) **Three wagons method to analyze ductile mode grinding processes** *(Invited Paper)*

Paper 10692-33

Time: 8:40 AM - 9:00 AM


Author(s): Oliver W. Föhnle, FISBA AG (Switzerland); Marius Doetz, Olaf Dambon, Fraunhofer-Institut für Produktionstechnologie IPT (Germany); Eckhard Langenbach, FISBA AG (Switzerland)

[Add To My Schedule](#) **Ductile grinding of tungsten carbide applying standard CNC machines: a process analysis**

Paper 10692-34

Time: 9:00 AM - 9:20 AM


Author(s): Marius Doetz, Olaf Dambon, Fritz Klocke, Fraunhofer-Institut für Produktionstechnologie IPT (Germany); Christian Vogt, Rolf Rascher, Technische Hochschule Deggendorf (Germany); Oliver W. Föhnle, FISBA AG (Switzerland)

[Add To My Schedule](#) **Process control in ductile mode machining of tungsten carbide** *(Invited Paper)*

Paper 10692-31

Time: 9:20 AM - 9:50 AM

Author(s): Marius Doetz, Olaf Dambon, Fritz Klocke, Fraunhofer-Institut für Produktionstechnologie IPT (Germany); Oliver W. Föhnle, Eckhard Langenbach, FISBA AG (Switzerland)

[Add To My Schedule](#) **Load controlled process window analysis of feed controlled CNC grinding**

Paper 10692-32

Time: 9:50 AM - 10:10 AM

Author(s): Christian Vogt, Technische Hochschule Deggendorf (Germany); Oliver W. Föhnle, FISBA AG (Switzerland); Rolf Rascher, Technische Hochschule Deggendorf (Germany)

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Coffee Break 10:10 AM - 10:40 AM

Advanced polymer optics: what is up, what is ongoing *(Invited Paper)*

Paper 10692-56

Time: 10:40 AM - 11:00 AM

Author(s): Francois HOUBRE, SAVIMEX (France)

[Add To My Schedule](#) **High efficient fabrication of high-precision off-axis aspheric optics****(Canceled)**

Paper 10692-35

Time: 11:00 AM - 11:20 AM

Author(s):

Lunch Break 11:20 AM - 12:50 PM

**Session 8:
Metrology I**

Thursday 17 May 2018

1:10 PM - 2:40 PM


Location: Concorde

Session Chair: [Claude Amra](#), Institut Fresnel (France)**Optical metrology** *(Invited Paper)*

Paper 10692-54

Time: 1:10 PM - 1:40 PM

Author(s): Wolfgang Osten, Christof Pruss, Institut für Technische Optik (Germany)

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**Polarization metrology for high numerical aperture DUV objectives
(Canceled)**

Paper 10692-42

Time: 1:40 PM - 2:00 PM


Author(s):

Obtaining the topography of human corneas with the null-screen testing method

Paper 10692-37

Time: 2:00 PM - 2:20 PM

Author(s): Manuel Campos-García, Victor Emanuel Armengol-Cruz, Daniel Aguirre-Aguirre, Univ. Nacional Autónoma de México (Mexico); Christian Camargo Fierro, Instituto Politécnico Nacional (Mexico)

[Add To My Schedule](#) **Optoelectronic system modulation transfer function measurement based on the method of summation over different frequencies harmonic functions**

Paper 10692-40

Time: 2:20 PM - 2:40 PM

Author(s): Oleg A. Perezyabov, ITMO Univ. (Russian Federation); Aleksandr V. Ilinski, S.I. Vavilov State Optical Institute (Russian Federation); Nadezhda K. Maltseva, ITMO Univ. (Russian Federation)

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Session 9: Metrology II

Thursday 17 May 2018

2:40 PM - 4:40 PM


Location: Concorde

Session Chair: [Christof Pruss](#), Institut für Technische Optik (Germany)**White light scattering and related techniques in far field roughness characterization** *(Invited Paper)*

Paper 10692-55

Time: 2:40 PM - 3:10 PM


Author(s): Claude Amra, Myriam Zerrad, Michel Lequime, Institut Fresnel (France)

[Add To My Schedule](#) **Characterization of gratings for space applications**

Paper 10692-38

Time: 3:10 PM - 3:30 PM

Author(s): Sakina Achour, Quentin Kuperman-Le Bihan, Light Tec (France); Pierre Etcheto, Ctr. National d'Études Spatiales (France)

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Coffee Break 3:30 PM - 4:00 PM

Angle resolved scattering microscope

Paper 10692-39

Time: 4:00 PM - 4:20 PM

Author(s): Yusuf Sekman, Friedrich-Schiller-Univ. Jena (Germany); Sven Schröder, Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany); Herbert Gross, Friedrich-Schiller-Univ. Jena (Germany)

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Closing Remarks

Thursday 17 May 2018

4:40 PM - 4:45 PM

Location: Concorde

Session Chair: [Sven Schröder](#), Fraunhofer-Institut für Angewandte Optik und Feinmechanik (Germany)