Day 1  November 15, 2017

07:00-08:00 Registrations

Conference Hall: Renaissance II

08:00-08:25 Opening Ceremony

Keynote Forum

08:25-08:30 Introduction

08:30-09:00 Title: Wide band gap III-nitride semiconductor devices
Ryan McClintock, Northwestern University, USA

09:00-09:30 Title: New frontiers in monolithic, tunable, mid-infrared lasers
Steven Slivken, Northwestern University, USA

Workshop on Rock Wars, We can Win with Silicon
Douglas R McCarter, McCarter Machine & Technology Inc., USA

09:30-10:00 Session I

Networking & Refreshment Break 11:00-11:15 @ Pre-Function Space

11:15-12:45 Session II

Group Photo 12:45-13:00

Panel Discussion

Lunch Break 13:00-13:50 @ Renaissance III

Day 1 - November 15, 2017

Conference Hall: Renaissance II

Main Hall Sessions

Sessions:
Applications and Trends in Optics and Photonics | Advancements in Photonics
Session Chair: Vincenzo Spagnolo, Technical University of Bari, Italy
Session Co-chair: Hideyoshi Horimai, Egarrim Co. Ltd., Japan

13:50-14:15 Title: One mm-thick see-through holographic RGB illumination unit ega-rim
Hideyoshi Horimai, Egarrim Co. Ltd., Japan

Title: Laser power conversion efficiencies exceeding 60%, featuring strong photon recycling, in ultra-thin GaAs n/p junctions based on high-photovoltage vertical epitaxial heterostructure architectures
Simon Fafard, Université de Sherbrooke, Canada

Title: Signal's envelope analysis by the mathematical statistics methods as a new approach to accurate measuring in optical metrology
Tatiana Yakovleva, Russian Academy of Sciences, Russia

14:40-15:05 Title: Time tagged time resolved single photon counting technique for quantum astronomy applications
Amur Margaryan, A I Alkhanyan National Science Laboratory, Armenia

15:05-15:30 Title: Holographic window for solar power generation system
Toshihiro Kasezawa, Egarrim Co. Ltd., Japan

Networking & Refreshment Break 15:55-16:10 @ Pre-Function Space

16:10-16:35 Title: New developments in quartz enhanced photoacoustic sensors exploiting custom quartz tuning forks
Vincenzo Spagnolo, Technical University of Bari, Italy

16:35-17:00 Title: Site-controlled quantum dots and their integration in photonic crystal nanocavities
Giorgio Pettinari, IFN-CNR, Italy

17:00-17:25 Title: Transition metal oxide thin film-applications
K V Madhuri, VFSTR University, India
17:25-17:50 Title: Split-and-delay units for soft and hard x-ray free-electron lasers
Sebastian Roling, University of Münster, Germany

Panel Discussion
Day 1 - Breakout November 15, 2017
Conference Hall: Paramount Room
Breakout Sessions

Sessions:
- Nanophotonics and Biophotonics
  Session Chair: Xiaoting Jia, Virginia Tech, USA
  Session Co-chair: Takashi Omatsu, Chiba University, Japan

13:50-14:15 Title: Broadband non-linear THz spectroscopy using gas plasma THz source
Masashi Yamaguchi, Rensselaer Polytechnic Institute, USA

14:15-14:40 Title: Bridging nano and macro: Multimaterial multifunctional fibers
Xiaoting Jia, Virginia Tech, USA

14:40-15:05 Title: Optical parametric vortex lasers
Takashige Omatsu, Chiba University, Japan

15:05-15:30 Title: Enhanced photodynamic therapy on cancer cells
Wei Deng, Macquarie University, Australia

15:30-15:55 Title: Nano-patterned hyperbolic metamaterials for high-frequency nanowire quantum dots single photon source
Feiliang Chen, Microsystem and Terahertz Research Center, China

Networking & Refreshment Break 15:55-16:10 @ Pre-Function Space

16:10-16:35 Title: Surface plasmon polaritons in nanostructured metamaterials
Tatjana Gric, Vilnius Gediminas Technical University, Lithuania

16:35-17:00 Title: Ytterbium and bismuth clusters impact on silica-based light guides optical and luminescence performances
Evgeny Savelyev, Kotel’nikov Institute of Radio-Engineering and Electronics-RAS, Russia

17:00-17:25 Title: Photon crystal–supported surface electromagnetic waves: A tool to study dynamics of receptor-ligand interactions with living bacteria and cells and to launch ultralong propagating surface plasmons
S K Sekatskii, Laboratoire de Physique de la Matière Vivante, Switzerland

17:25-17:50 Title: Laser aided shunt removals to improve conversion efficiency in high-efficiency silicon solar cells
Ngwe Zin, University of Central Florida, USA

Panel Discussion
Day 2 November 16, 2017
Conference Hall: The Five Spot Room
Main Hall Sessions

Keynote Forum

08:30-09:00 Title: Optical to electrical power conversion devices with the highest efficiency ever (Eff > 60%) based on the vertical epitaxial heterostructure architecture (VHESA) design
Simon Fafard, Broadcom, USA

09:00-09:30 Title: Quantum laser interactions with select silicate specimens
Michelle R Stem, Complete Consulting Services, USA

09:30-10:00 Title: The CAOS smart camera—empowering automotive and surveillance imaging
Nabeel A Riza, University College Cork, Ireland

Session:
- Optoelectronics
  Session Chair: A G Unil Perera, Georgia State University, USA
  Session Co-chair: Kenji Murakami, Shizuoka University, Japan
### Session Introduction

**10:00-10:25**  
**Title:** Heterojunction detectors for multi-band detection with wavelength threshold extension mechanism  
A G Unil Perera, Georgia State University, USA

**10:25-10:50**  
**Title:** Transparent and conductive materials for opto-electronic applications  
Bellet Daniel, University of Grenoble, France

### Panel Discussion

**Networking & Refreshment Break 10:50-11:05 @ Pre-Function Space**

**11:05-11:30**  
**Title:** Fabrication of nanowires-based devices grown with controlled orientation  
Kaddour Lekhal, Nagoya University, Japan

**11:30-11:55**  
**Title:** High precision fast line detection of alignment and coupling for optoelectronic devices  
Yu Zheng, Central South University, China

**11:55-12:20**  
**Title:** In situ and ex situ optical characterization of nitride semiconductor crystal for advanced optical and power electronic devices  
S Nitta, Nagoya University, Japan

**12:20-12:45**  
**Title:** Defect reduction of GaN nano rods on hetero-substrates: Behaviors of basal stacking faults  
Si-Young Bae, Nagoya University, Japan

**12:45-13:10**  
**Title:** Synthesis and characterization of organic mechanoluminescent materials  
Kenji Murakami, Shizuoka University, Japan

### Lunch Break 13:10-14:00 @ Renaissance III

### Poster Presentations 13:45-14:45 @ Pre-Function Space

**Poster Judges:**  
Amur Margaryan, A I Alikhanyan National Science Laboratory, Armenia  
Jiaren Liu, National Research Council, Canada

| OP1 | Title: Acetylene sensor based on the tunable laser spectroscopy method and the correlation spectroscopy principle  
Guzman-Chavez A D, Universidad de Guanajuato, Mexico |
|-----|-------------------------------------------------------------------------------------------------------------------|
| OP2 | Title: The effects of two stages GaN growth with different V/III ratios during 3D-2D transition  
Ismail Altuntas, Cumhuriyet University, Turkey |
| OP3 | Title: DNA as a catalyst in photoinduced processes and nanoscale resonance nonradiative electron excitation energy transfer  
Tamar G Giorgadze, Ivane Javakhishvili Tbilisi State University, Georgia |
| OP4 | Title: Influence of laser energy on the electron temperature of a laser-induced Mg plasma  
Emmanuel Asamoah, Jiangsu University, China |
| OP5 | Title: Graphene quantum dots loaded macrophages mediated drug delivery for imaging guided photodynamic therapy  
Yong-kyu Lee, Korea National University of Transportation, Korea |
| OP6 | Title: Synthesis and characterization of fluorescence MoS₂ dots for biomedical applications  
Ikjun Yeon, Korea National University of Transportation, Korea |
| OP7 | Title: White graphene quantum dots surface coated with MnO₂ nanosheet for dual imaging guided photothermal therapy  
Joon Hwang, Korea National University of Transportation, Korea |

### Session: Optoelectronics

**Session Chair:** Devki N Talwar, Indiana University of Pennsylvania, USA  
**Session Co-chair:** Juan Carlos Rendón-Angeles, Centro de Investigación y de Estudios Avanzados del IPN CINVESTAV-Saltillo, Mexico

**Session Introduction**

**14:45-15:10**  
**Title:** Spectroscopic phonon and extended x-ray absorption fine structure measurements on 3C-SiC/Si (001) epifilms  
Devki N Talwar, Indiana University of Pennsylvania, USA
**Title:** Insights of the hydrothermal synthesis of scheelite-structured powders in the SrMoO$_4$-SrWO$_4$ system: Structure and luminescence characterization  
*Juan Carlos Rendón-Angeles*, Centro de Investigación y de Estudios Avanzados del IPN CINVESTAV-Saltillo, Mexico

15:10-15:35

**Title:** MBE growth of InAs nanowires on Si  
*Hao-Hsiung Lin*, National Taiwan University, Taiwan

15:35-16:00

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**Title:** Recent progress of AlGaN-based deep-ultraviolet light-emitting diodes  
*Masafumi Jo*, RIKEN Brain Science Institute, Japan

16:15-16:40

**Title:** Extended short wave infrared photodetectors  
*Doron Cohen Elias*, Soreq NRC, Israel

16:40-17:05

**Title:** Room-temperature-protonation-driven optoelectronic device with water-gated thin-film-transistor structure  
*Takayoshi Katase*, Tokyo Institute of Technology, Japan

17:05-17:30

**Title:** Hydride vapor phase epitaxy growth of III-V nanostructures for high performance devices  
*Geoffrey Avit*, Université Clermont Auvergne, France

17:30-17:55

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**Keynote Forum**

08:30-09:00 **Title:** Antimicrobial blue light inactivation of pathogenic microbes: State of the art  
*Tianhong Dai*, Harvard Medical School, USA

09:00-09:30 **Title:** Combination laser treatment for immature scars  
*Yongsoo Lee*, Oh and Lee Medical Robot, Inc, South Korea

09:30-10:00 **Title:** Integrated hybrid plasmonic devices—the role of 2D materials  
*Amr S Helmy*, University of Toronto, Canada

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**Sessions:**  
Optical Metrology | Surface Enhanced Spectroscopy | Quantum Science and Technology  
Session Chair: Kuniharu Ijiro, Hokkaido University, Japan  
Session Co-chair: Tatsuo Shiina, Chiba University, Japan

**Session Introduction**

10:00-10:25 **Title:** Exciton dynamics and resonant tunneling in coupled quantum dots quantum well tunnel-injection structures  
*Branislav Vlahovic*, NASA University-Research Center for Aerospace Device, USA

10:25-10:50 **Title:** Active gap SERS with plasmonic nanostructures on hydrogels for the sensitive detection of biomacromolecules  
*Kuniharu Ijiro*, Hokkaido University, Japan

11:05-11:30 **Title:** Non-diffractive beam in random media  
*Tatsuo Shiina*, Chiba University, Japan

11:30-11:55 **Title:** LED's for horticulture: Novel insights in plant cultivation  
*Giedre Samuoliene*, Lithuanian Research Centre for Agriculture and Forestry, Lithuania

11:55-12:20 **Title:** Parity detection achieving Heisenberg limit in an SU(1,1) interferometer with coherent and squeezed vacuum input states  
*Dong Li*, Microsystem and Terahertz Research Center, China

12:20-12:45 **Title:** Probing two dimensional (2D) semiconductors by employing nonliner optical microspectroscopy  
*Mohammad Mokim*, University of Rhode Island, USA

12:45-13:10 **Title:** Intensification of boron isotopes separation by the laser field manipulation within the method of isotopes separation by selective condensation retardation in overcooled gas flow  
*Konstantin Lyakhov*, Jeju National University, South Korea
### Session: Laser Systems
Session Chair: Yanbo Bai, Coherent Inc., USA  
Session Co-chair: Nasser Peyghambarian, NP Photonics, Inc., USA

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:00-14:25</td>
<td>Title: Characterization of optically pumped semiconductor lasers in pulsed mode</td>
<td>Yanbo Bai</td>
<td>Coherent Inc., USA</td>
</tr>
<tr>
<td>14:25-14:50</td>
<td>Title: Novel sources and resonators for high-resolution molecular spectroscopy in the mid infrared</td>
<td>Simone Borri</td>
<td>CNR-INO Istituto Nazionale di Ottica, Italy</td>
</tr>
<tr>
<td>14:50-15:15</td>
<td>Title: Hall coefficient sign reversal in metamaterials</td>
<td>Ramesh G Mani</td>
<td>Georgia State University, USA</td>
</tr>
<tr>
<td>15:15-15:40</td>
<td>Title: Liquid phase growth of GaSe crystal for highly efficient THz wave generation</td>
<td>Yohei Sato</td>
<td>Tohoku University, Japan</td>
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### Networking & Refreshment Break 15:40-15:55 @ Pre-Function Space

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<tbody>
<tr>
<td>15:55-16:20</td>
<td>Title: Integrated terahertz photonics and optoelectronics</td>
<td>Qi Jie Wang</td>
<td>Nanyang Technological University, Singapore</td>
</tr>
<tr>
<td>16:20-16:45</td>
<td>Title: In vivo physiological imaging of biological tissues based on diffuse reflectance spectroscopy with an RGB camera</td>
<td>Izumi Nishidate</td>
<td>Tokyo University of Agriculture and Technology, Japan</td>
</tr>
<tr>
<td>16:45-17:10</td>
<td>Title: Fiber-based sources spanning UV to Mid-IR</td>
<td>Nasser Peyghambarian</td>
<td>NP Photonics, Inc., USA</td>
</tr>
<tr>
<td>17:10-17:35</td>
<td>Title: High quality nitride materials (AlN and AlGaN) on Si and sapphire substrates and UV-LED applications</td>
<td>Ilkay Demir</td>
<td>Cumhuriyet University, Turkey</td>
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### Panel Discussion

**Day 3 November 17, 2017**
Conference Hall: The Five Spot Room

### Main Hall Sessions
Session: Optical Communications and Networking | Fiber Laser Technology
Session Chair: Dongsun Seo, Myongji University, Korea  
Session Co-chair: Taiji Sakamoto, NTT Access Network Service Systems Laboratories, Japan

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<th>Time</th>
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<tbody>
<tr>
<td>08:30-08:55</td>
<td>Title: Technique of optical frequency comb generation from a bismuth-based harmonically mode-locked fiber laser</td>
<td>Yutaka Fukuchi</td>
<td>Tokyo University of Science, Japan</td>
</tr>
<tr>
<td>08:55-09:20</td>
<td>Title: Randomly-coupled multi-core fiber for long-haul optical MIMO transmission system</td>
<td>Taiji Sakamoto</td>
<td>NTT Access Network Service Systems Laboratories, Japan</td>
</tr>
<tr>
<td>09:20-09:45</td>
<td>Title: Phase noise analysis of InAs quantum-dot mode-locked semiconductor lasers</td>
<td>Jiaren Liu</td>
<td>National Research Council, Canada</td>
</tr>
<tr>
<td>09:45-10:10</td>
<td>Title: CFO compensation method for coherent optical OFDM system by electro-optic feedback</td>
<td>Sang-Rok Moon</td>
<td>Electronics and Telecommunications Research Institute, South Korea</td>
</tr>
<tr>
<td>10:10-10:35</td>
<td>Title: The influence of constant-envelope signals in coherent-detection optical OFDM systems</td>
<td>Jair Adriano Lima Silva</td>
<td>Federal University of Espírito Santo, Brazil</td>
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### Networking & Refreshment Break 10:35-10:50 @ Pre Function Space

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<tr>
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<tr>
<td>10:50-11:15</td>
<td>Title: A MAC layer protocol for a bandwidth scalable OFDMA PON architecture</td>
<td>Reginaldo Barbosa Nunes</td>
<td>Federal Institute of Espírito Santo, Brazil</td>
</tr>
<tr>
<td>11:15-11:40</td>
<td>Title: Optimization of optical modulation formats for high-speed short-reach connection</td>
<td>Jianjun Yu</td>
<td>Fudan University, China</td>
</tr>
</tbody>
</table>
Title: Improvement of optical transmission capacity by data compression and amplitude/phase/frequency 3-dimensional modulation  
Dongsun Seo, Myongji University, Korea

Session:  
Technologies in Lasers, Optics and Photonics  
Session Chair: Jesse A Frantz, US Naval Research Laboratory, USA  
Session Co-chair: Eugene S Smotkin, Northeastern University, USA

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<tr>
<td>11:40-12:05</td>
<td>Title: Improvement of optical transmission capacity by data compression and amplitude/phase/frequency 3-dimensional modulation</td>
<td>Dongsun Seo, Myongji University, Korea</td>
<td></td>
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**Session Introduction**

Title: Anti-reflection surface structures on optics as an alternative to thin film anti-reflection coatings  
Jesse A Frantz, US Naval Research Laboratory, USA

Title: A perspective on quasi-confocal operando Raman microspectroscopy of laminated polymer composite materials  
Eugene S Smotkin, Northeastern University, USA

**Lunch Break 12:55-13:45 @ Renaissance III**

Title: Photo-induced flows relevant to laser-based droplet manipulations  
Takahiro Tsukahara, Tokyo University of Science, Japan

Title: Fourier-Bessel electromagnetic mode solver (and its inversion)  
Robert Claude Gauthier, Carleton University, Canada

Title: Glass optics replication in a digitalized production environment  
Holger Kreilkamp, Fraunhofer-Institute for Production Technology, Germany

Title: PILOT optical alignment  
Baptiste MOT, IRAP, France

**Networking & Refreshment Break 15:25-15:40 @ Pre-Function Space**

Title: Laser technology to guide rainfall to a particular region  
T K Subramaniam, Sri Sairam Engineering College, India

Title: Quartz-enhanced photoacoustic spectroscopy with electrical co-excitation  
Ulrike Willer, Clausthal University of Technology, Germany

Title: Advanced IR glass and fiber technology  
S S Bayya, Naval Research Laboratory, USA

**Panel Discussion**

Day 3 November 17, 2017  
Conference Hall: Paramount Room  
Breakout Sessions

**Sessions:**  
Optical Physics | Optics and Lasers in Medicine  
Session Chair: A Seteikin, Amur State University, Russia  
Session Co-chair: Albrecht Lindinger, Freie Universität Berlin, Germany

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<tr>
<td>08:30-08:55</td>
<td>Title: Simulation of thermal reaction of biological tissues to laser-induced fluorescence and photodynamic therapy</td>
<td>A Seteikin, Amur State University, Russia</td>
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<tr>
<td>08:55-09:20</td>
<td>Title: High brightness photonic crystal semiconductor lasers</td>
<td>Cunzhu Tong, Chinese Academy of Sciences, China</td>
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<tr>
<td>09:20-09:45</td>
<td>Title: Robotic Irradiation of Medical Lasers</td>
<td>Yongsoo Lee, Oh and Lee Medical Robot, Inc, South Korea</td>
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<tr>
<td>09:45-10:10</td>
<td>Title: Simple way of optical manipulation of particles/cells in microfluidic systems</td>
<td>Masahiro Motosuke, Tokyo University of Science, Japan</td>
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<tr>
<td>10:10-10:35</td>
<td>Title: Fluorescence anisotropy excitation by polarization-shaped laser pulses after transmission through a kagome fiber</td>
<td>Albrecht Lindinger, Freie Universität Berlin, Germany</td>
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**Networking & Refreshment Break 10:35-10:50 @ Pre Function Space**
Title: Wavefront propagation simulations for a hard x-ray split-and-delay unit at the European XFEL  
Victor Kärcher, University of Münster, Germany  
Title: Development of high-operating long wave HGCDTE devices at army research laboratory  
Priyalal Stephen Wijewarnasuriya, US Army Research Laboratory, USA

### YRF Session:
**Session Chair:** Masashi Yamaguchi, Rensselaer Polytechnic Institute, USA  
**Session Co-chair:** Bellet Daniel, University of Grenoble, France

**Session Introduction**

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<tr>
<td>11:40-11:55</td>
<td>W-band signal propagation in a WDM-over-OCDMA system</td>
<td>Morad Khosravi Eghbal</td>
<td>University of Texas at San Antonio, USA</td>
</tr>
<tr>
<td>11:55-12:10</td>
<td>Growth and characterization of homoepitaxial m-plane GaN on native bulk GaN</td>
<td>Ousmane I Barry</td>
<td>Nagoya University, Japan</td>
</tr>
<tr>
<td>12:10-12:25</td>
<td>Nonlinearity compensation using optical phase conjugation in optical fiber transmission systems</td>
<td>Mohammad A Z Al-Khateeb</td>
<td>Aston University, England</td>
</tr>
<tr>
<td>12:25-12:40</td>
<td>Quantum plasmonics with nitrogen-vacancy centers in diamond</td>
<td>Simeon Bogdanov</td>
<td>Purdue University, USA</td>
</tr>
<tr>
<td>12:40-12:55</td>
<td>Automatized optical quality assessment of photovoltaic modules</td>
<td>Johannes Hepp</td>
<td>Bavarian Center for Applied Energy Research, Germany</td>
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**Lunch Break 12:55-13:45 @ Renaissance III**

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<tr>
<td>13:45-14:00</td>
<td>Surface modification of PET film via a large area atmospheric pressure plasma: An optical analysis of the plasma and surface characterization of the polymer film</td>
<td>Farzad Rezaei</td>
<td>North Carolina State University, USA</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td>Diagnostics of laser remelting of thermally sprayed coatings using an infrared camera</td>
<td>Marek Vostřák</td>
<td>University of West Bohemia, Czech Republic</td>
</tr>
<tr>
<td>14:15-14:30</td>
<td>Band alignment in organic light emitting diodes – on the track of thickness</td>
<td>Maybritt Kuehn</td>
<td>Technische Universitaet Darmstadt, Germany</td>
</tr>
<tr>
<td>14:30-14:45</td>
<td>The welding modes in Laser-arc hybrid lap welding of dissimilar metals</td>
<td>Hongyang Wang</td>
<td>Dalian University of Technology, China</td>
</tr>
<tr>
<td>14:45-15:00</td>
<td>Mapping surface plasmon polaritons by near-infrared dual-probe scanning near-field optical microscope</td>
<td>Najmeh Abbasiard</td>
<td>Friedrich Schiller University Jena, Germany</td>
</tr>
<tr>
<td>15:00-15:15</td>
<td>FTIR laboratory measurement of O I spectra in 0.77–12.5 μm spectral range</td>
<td>Zanozina Ekaterina</td>
<td>J Heyrovsky Institute of Physical Chemistry, Czech Republic</td>
</tr>
<tr>
<td>15:15-15:30</td>
<td>On-chip integrated 3D-CMOS Si photodetector array with a fiber couplers platform for remote optical fiber monitoring</td>
<td>Iman Sabri Alirezaei</td>
<td>Otto-von-Guericke University of Magdeburg, Germany</td>
</tr>
<tr>
<td>15:30-15:45</td>
<td>Intracellular pH detection of Brachionus plicatilis with pMBA pH nanosensor</td>
<td>Nadiah Aldaleeli</td>
<td>Swansea University, UK</td>
</tr>
<tr>
<td>15:45-16:00</td>
<td>The MOCDV overgrowth studies of III-Nitride on Bragg grating for distributed feedback lasers</td>
<td>Junze Li</td>
<td>Microsystems and Terahertz Research Center, China</td>
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**Video Presentation**

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<tr>
<td>16:00-16:15</td>
<td>The Effects of Laser Characteristics on Energy Generation in Particles on a Surface</td>
<td>Wei Peng-Sheng</td>
<td>National Sun Yat-Sen University, Taiwan</td>
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**Panel Discussion**

**Networking & Refreshment Break 16:15-16:30 @ Pre-Function Space**

**Awards & Closing Ceremony**