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Title	<b>Fellow's report on activities : OPTO-2017 (July 2017, Warsaw)</b>
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I participated in the conference 'OPTO-2017' ( <http://opto2017.com/> ) which was held from 4<sup>th</sup> July to 8<sup>th</sup> July in Warsaw, Poland. This is an international conference organised in Poland annually and this year it was arranged for the eleventh time.

Goal: The event offered unique scientific exposure with interesting topics covering a broad region in the research field of optics and photonics. It was particularly focused for students and young researcher, to give them an opportunity to present and discuss their latest work. So, the goal was to provide valuable experience to broaden up their knowledge not only through several interesting lectures on the current significant achievements in the vast research field of optical physics but also gave importance to soft skills for professional development for succeeding in future scientific endeavour.

Impact: Many young researcher and students from all over the world were invited to take part in the conference and a large number of them were from Poland. Participants had options to present their work in the form of oral and poster presentation followed by interactive sessions to discuss in detail about their research with other fellow researchers and invited speakers. As an early stage researcher (working under HICONO research group of Marie-Skłodowska-Curie – research network), I have presented my latest work during poster presentation and had valuable comments and encouragements for further improvements, from experienced researcher and professors of my research field.

Methodology: The conference was held for five days where the first four days were for the main event and the last day was social day (visiting the 'Copernicus Science Centre'). Almost all the days were packed with lectures, presentations and social activities. In the opening day, there were some important lectures regarding - Patent and intellectual property (general introductions, how to protect inventions, why is it so important for technology transfer) which were followed by another professional development seminar – Being a scientist (which was mainly focussed on the importance of having effective working and communications skills in science and another talk was focussed on the importance of ethics for developing professional identity as scientist). The second, third and fourth day of the conference were particularly for the scientific presentations on recent innovations with interesting experimental and theoretical findings from participants - young researchers and invited speakers. The topics of the presentations were mainly from – Laser physics, optical fibre technology, optical Engineering, Quantum Information, Image processing, holography, spectroscopy, atomic and molecular physics, numerical concepts and modelling for optical design, nonlinear optics, Interferometry and sensors.

The poster session was held in the 3<sup>rd</sup> day. I presented my work on 'Electro Optic Sensors for High Precision Absolute Distance Measurement Using Multiwavelength Interferometer' during poster session. The abstract of my work has been published in the book of abstract of 'OPTO-2017' [the link has been given in the main conference website (mentioned previously):[https://figshare.com/articles/AbstractBook\\_OPTO2017\\_pdf/5146993](https://figshare.com/articles/AbstractBook_OPTO2017_pdf/5146993)]. Here I have discussed about my experimental investigations on the efficiency of electro optic phase modulation process to replace the mechanical phase modulation, to develop an interferometric sensor which will enable free beam propagation from sensor to target, for a multi wavelength interferometer. I have received encouraging comments and important suggestions for further improvement of my work from other senior researchers, scientists and professor. As, my research field (i.e. multiwavelength interferometry) is not a very familiar to graduation or post-graduation level, so students showed very inquisitive response to know about multiwavelength interferometry and I had some great interactions with them where I found the opportunity to explain my work from very basic, to create an idea in their mind so that they can contemplate the concept with their knowledge. Thus, the conference was very focussed, interactive and well-organised which gave me an opportunity to present my work and enrich my knowledge through interesting lectures on various sections of optical physics and also from special discussion classes on professional development skills.

Here is the certificate of my participation, issued by the conference organizers -



