

**Short Course:  
Practical Quantum Optics 2019**

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**Biography:**

Gerd Leuchs is professor adjunct at the physics department of the University of Ottawa and director emeritus at the Max Planck Institute for the Science of Light in Erlangen. – After 15 years in academic research at the Universities of Cologne, Munich and at JILA, Boulder, Colorado, he worked at a Swiss optics company for 5 years. His scientific work includes quantum beats, photo-electron angular distributions in multi photon ionization, quantum noise reduced and entangled light beams and solitons in optical fibres, quantum communication protocols, focusing light beams and nanophotonics. For five years, Gerd Leuchs led the German gravitational wave detection group (1985-1989). He has been Visiting Fellow of JILA, Feodor-Lynen fellow of the Alexander von Humboldt Foundation, Heisenberg fellow of the German Science Foundation, Visiting Professor at the Australian National University, at the University of Adelaide and the Laboratoire Kastler Brossel of the Ecole Normale Supérieure. He is member of the German Physical Society, the German Society for Applied Optics, the European Physical Society and the German Academy of Sciences Leopoldina, and Fellow of the Institute of Physics and of the Optical Society of America. He is foreign member of the Russian Academy of Sciences. He holds honorary degrees from the Danish Technical University and Saint Petersburg State University. In 2005 he received the Quantum Electronics Prize of the EPS, and in 2018 the Herbert Walther Prize jointly awarded by the Optical Society (OSA) and the German Physical Society (DPG).