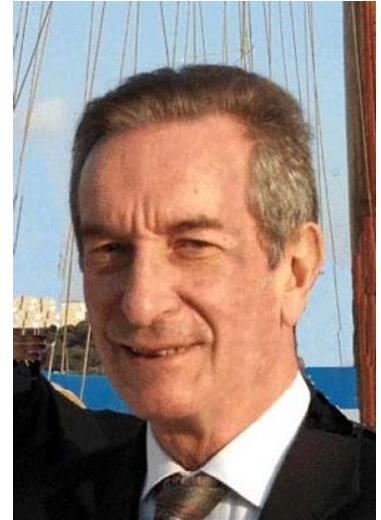


2015 IEEE Photonics Society Aron Kressel Award Silvano Donati, University of Pavia

The IEEE Photonics Society Aron Kressel Award is given to recognize those individuals who have made important contributions to optoelectronic device technology. The device technology cited is to have had a significant impact on their applications in major practical systems.

The 2015 Aron Kressel Award will be presented to Professor Silvano Donati, "for seminal contributions to self-mixing interferometry." The presentation will take place during the Awards Ceremony being held at the 2015 IEEE Photonics Conference, at the Hyatt Regency Reston, Reston, Virginia, USA, on October 5, 2015.



SILVANO DONATI (M'75, SM'98, F'03, LF'09) earned his Laurea degree in Physics cum laude in 1966 at University of Milan. He was with CISE, the corporate research center of the Italy Electrical Generating Board, from 1966 to 1975. In 1971 he started lecturing courses at University of Pavia, where, in 1980, he became Full Professor of Optoelectronics at the Department of Electronics, Faculty of Engineering. Since then he leads the Group of Optoelectronics active on photodetector and noise, and electro-optical instrumentation (gyroscopes, interferometry, etc.), and optical fiber communications.

He is the credited inventor of self-mixing interferometry and of chaos-shift-keying (CSK) cryptography, the topic recognised by the Fellow awards and that he covered in Distinguished Lectures given in 21 LEOS Chapters in two terms, 2007/08 and 2008/09, totalling 23 Chapter visited. He is the author of two books: 'Photodetectors' published by Prentice Hall, 1999, and 'Electro-Optical Instrumentation', published by Prentice Hall, 2004, this last translated in Chinese (Jiao Tong University Press, 2006) and also available as paperback, India edition, and e-book (2008).

He has taught for over twenty years; courses in Electronic Circuit Design, Electronics Materials and Technology, Photodetector Devices, Electro-optical Instrumentation and Optical Fiber Communications in the curriculum of Electronics Engineering of the Italian Laurea (5-years) degree. In 1975 he was the promoter of the first curriculum offered in Italy on Optoelectronics at University of Pavia.

He has authored or co-authored about 300 publications on peer-reviewed Journals and Conference Proceedings, 6 book chapters and was the Editor of 12 Conference Proceedings he has chaired. His seminal papers on self-mix and chaos have received 1500+ citations. His H factor is 30 and the i10-index is 100.

With the IEEE-LEOS he has started two serial workshops: WFOPC (Workshop on FiberOptics Passive Components) and ODIMAP (Optical Distance Measurements and Applications) started in Pavia for two editions before being passed on to IEEE Chapters in Glasgow, Palermo and Taipei (WFOPC), and Madrid and Oulu (ODIMAP). Last, in 2010 with the IEEE Italy Section he has promoted COMPENG, the IEEE conference on complex system analysis and design, followed with a second edition in Aachen University (Germany), 13-15 June 2012.