Andreani presented a very good intuitive discussion of the basic Lee-son’s equation for phase noise and two ways to confirm the result. He indicated that there is a third approach that his group has developed. Andreani is well known for his work on class-C LC oscillators, which reduce phase noise. He used one phase-noise analysis approach to discuss how this architecture reduces noise.

In the last part of the presentation, Andreani discussed numerous LC oscillator architectures, including ones that include transformers or switched inductors and a series-LC oscillator concept which is under development.

—Robert O. Peruzzi
—Richard Booth
—Photos by Paul Davis and Esther Peruzzi

SSCS Kansai Chapter Hosts Prof. Edorado Charbon

On 29 December 2017, the IEEE Solid-State Circuits Society (SSCS) Kansai Chapter held a technical seminar at Kobe University, Hyogo, Japan.

Prof. Edoardo Charbon, École Polytechnique Fédérale de Lausanne, Switzerland, gave an excellent talk on a single-photon sensor and quantum computers. Although the number of attendees was not large, the discussions following the seminar were very active, lasting over two hours. All attendees were IEEE members.


—Noriyuki Miura
Secretary, SSCS Kansai Chapter