UNIVERSIDAD
DE SANTIAGO
DE CHILE

FIRST SOUTH AMERICAN COLLOQUIUM ON

VISIBLE LIGHT COMMUNICATIONS

MONDAY, NOVEMBER 13TH, 2017

INTERNATIONAL SPEAKERS

Master Class
“Realizing Indoor Optical Wireless Networking with Beam Control”
Dr. Thomas Little, Boston University, USA, and NSF ERC for Lighting Enabled Systems and Applications.

Master Class
“State Of Art and the forcoming challenges about VLC standardization”
Dr. Suat Topsu, Academic Université de Versailles and Entrepreneur Founder of Oledcomm and co-inventor of Visible Light Communication (LiFi) technology.

Master Class
"The roll-out of LiFi in 100 cities across the world. A strategy to comply with the Paris Agreements for Climate and a platform for economic growth"
Dr. Gunter Pauli, Member of the Advisory Board (Oledcomm, Slow Food International), Belgium.

Master Class
“Applications of Visible Light Communications”
Dr. Zabih Ghassemlooy, Northumbria University, United Kingdom.

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PROGRAM OF ACTIVITIES

8:30 am	**Accreditation**
9:00 am	**Welcome**
9:40 am	**Master Class** "Realizing Indoor Optical Wireless Networking with Beam Control" Dr. Thomas Little.
10:15 am	**Coffee Break and Poster section**
10:30 am	**First round of articles presentation**
11:50 am	Master Class **"State Of Art and the forcoming challenges about VLC standardization"** **Dr. Suat Topsu.**
12:30 am	**Break**
2:00 pm	Master Class **"The roll-out of LiFi in 100 cities across the world. A strategy to comply with the Paris Agreements for Climate and a platform for economic growth"** **Dr. Gunter Pauli.**
2:30 pm	**Second round of presentation of articles**
4:00 pm	Master Class **"Applications of Visible Light Communications"** **Dr. Zabih Ghassemlooy.**
4:30 pm	**Coffee break for closing**

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Track 1: First round of articles presentation

10:30 - 10:40 am	**1570389083** - Spatial Time Division Multiple Access for Visible Light Communication Networks.
10:40 - 10:50 am	**1570395931**- Hardware Design of a Prototyping Platform for Vehicular VLC Using SDR and Exploiting Vehicles CAN Bus.
10:50 – 11:00 am	**1570395957** - Multi-band Carrier-less Amplitude and Phase Modulation for VLC: An Overview.
11:00 – 11:10 am	**1570397011** - Indoor Positioning Using a Single Transmitter for Visible Light Communication Systems.
11:10 – 11:20 am	**1570397382** - A NOMA Scheme for Visible Light Communications using a Sin Carrier Transmission.
11:20 – 11:30 am	**1570398867** - Interference Alignment with jacobian eigenvalue.
11:30 – 11:40 am	**1570399027** - Potential and Challenges of VLC based IPS in Underground Mines.

Track 2: Second round of articles presentation

2:30 - 2:40 pm	**1570380396 -** FSO transmission of halftoned image over DGG turbulence channel.
2:40 - 2:50 pm	**1570395306 -** Separation of VLC signals using FastIca and InfoMax
2:50 – 3:00 pm	**1570397290** - Biological emulation of selective attention of Visual Light Communication sensor in environments with light noise.
3:00 – 3:10 pm	**1570398778** - Tracking System with VLC for Underground Mine using Multi-Agent Systems.
3:10 – 3:20 pm	**1570398978** - A Competition Model to Aid in the Selection of an Information Security Method for Platforms of Communication by Visible Light (VLC).
3:20 – 3:30 pm	**1570399154** - Implementation of an emitting LED circuit in a Visible Light Communications positioning system.
3:30 – 3:40 pm	**1570401523 -** A new key exchange algorithm over a VLC indoor channel.

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