

September 2015

Yearly Report of the Swiss Photonics National Lab SSSL

Mission

SSSL is a cooperation initiative of research institutes in the field of Solid State Lighting (SSL) and shall become a reference for Swiss companies and research organizations active in the SSL domain.

Team

- CSEM Muttenz (CSEM), Dr. Rolando Ferrini
- EPFL Lausanne (LASPE), Prof. Dr. Nicolas Grandjean
- ZHAW Winterthur (ICP- Institute of Computational Physics), Prof. Dr. Beat Ruhstaller
- EMPA Thun, Lab. for Advanced Material Processing, Prof. Dr. Patrick Hoffmann
- HSLU, Technik und Architektur, Competence Center Eletronics, Prof. Othmar Schälli

Main achievements

- Successfully added HSLU Luzern in the Team
- Agreed with the Board equipment investments for 96k CHF as support to SMEs
- Organization of the Workshop “Smart Lighting”, 30.10.2015 (EPFL)
- Initiatives in the framework of the International Year of Light (IYL):
 - Preparation of a SSL demo as collaborative effort of the Team to showcase SSL competences in Switzerland
 - Open Door Day at CSEM Muttenz on 26.09.2015
 - Shedding light on light at EPFL on 07.11.2015
- Submission of a H2020 proposal involving CSEM, EMPA and a SME – Crealas / Not funded
- Support to 8 CTI projects (funded)
- Involvement of a Swiss LED SME as component supplier into a CTI project
- Industrial contacts:
 - BASF Schweiz AG (Basel) / Domain: OLEDs / Contact: CSEM
 - CREALAS (Thun) / Domain: SSL / Contact: CSEM and EMPA
 - Pi-Lighting / Domain: SSL / Contact: CSEM and LASPE
 - Novagan / Domain: LEDs / Contact: CSEM and LASPE
 - Combivap / Domain: OLEDs / Contact: CSEM and ZHAW
 - RIBAG / Domain: OLEDs / Contact: CSEM and HSLU
 - Fluxim / Domain: SSL and OLEDs / Contact: CSEM and ZHAW
- Networking
 - Photonics21/ Workgroup 4
 - EPIC: co-advertising of Workshops and initiatives
 - EU project LASSIE-FP7
- Meetings & Events
 - Periodic Team meetings (twice per year): EMPA (12.01.15) & HSLU (08.06.15)
 - LED-Theorieseminar (CSEM and HSLU), HSLU – 15.01.15
 - LED-Forum 2015 (CSEM and LASPE), Lausanne – 28.01.15
 - Photonics West 2015 (CSEM and LASPE), San Francisco – 07-12.02.15
 - Photonik Austria: Lichtmanagement und Photonik (CSEM), Graz – 18.06.15
 - Euresearch Basel (CSEM), Basel – 07.07.15
 - EEDAL'15 (CSEM and HSLU), Horw – 26-28.08.15
 - Int. LED Prof. Symposium (CSEM), Bregenz – 22-24.09.15
 - SSSL Workshop “Smart Lighting” (ALL), EPFL – 30.10.15
 - Forum LED Europe (CSEM and LASPE), Lyon – 07-08.12.15
 - Participation in two TV broadcasts
 - RTS 04.03.2015, Le 12h45, TV News: « LED, la source lumineuse du futur »
 - Canal Alpha 29.09.2015, TV magazine : Eureka – Lorsque tout s'éclaire
 - Publication for the Swiss Physical Society journal about 2014 Nobel Prize on the blue LED: The Nobel Prize in Physics 2014: a journey in the world of solid state lighting

Next steps

- Increasing activities and awareness of the SSSL
- Consolidation of the Team / Evaluation of new potential partners (e.g. HTW-S.A.L.T.)

SWISS PHOTONICS

- Next Workshops & Industrial seminars + Advertising actions
- Promote more industrial contacts with Swiss SMEs
- Foster project proposals among the Team, possibly with Swiss SMEs