



FP7-REGPOT-CT-2011-285912 - project FOTONIKA-LV

**73rd Annual Scientific Conference
of the University of Latvia**

Section:

**The Project "FOTONIKA-LV – FP7-REGPOT-CT-2011-285912"
The Third Year Scientific Outcomes**

**6th February, 2015
Riga Photonics Center
Skunu street 4, Riga, Latvia**

BOOK OF ABSTRACTS



**INTERNATIONAL
YEAR OF LIGHT
2015**

Results of WP 5 – Dissemination, Promotion, Contribution to Innovation – Public Access Riga Photonics Centre

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In 2014 multiple dissemination activities of WP5 (*Dissemination, promotion, contribution to innovation – Public access Riga Photonics Centre*) for the project FOTONIKA-LV [1] took place:

- 1) The establishment of a Facebook page for Riga Photonics Center – <https://www.facebook.com/fotonikalv/>;
- 2) The establishment of LinkedIn presence for FOTONIKA-LV – <https://www.linkedin.com/company/fotonika-lv/>;
- 3) Photonics prize for the best student presentation, 72nd Conference of University of Latvia, section on the project FOTONIKA-LV, 07.02.2014;
- 4) Press releases have been issued for most events held by FOTONIKA-LV at the Riga Photonics Center;
- 5) Seminar „Protection of Intellectual property”. About 15 participants heard about patents and industrial models. Lectures were conducted by experts of Patent Office of the Republic of Latvia – Dace Liberte, Asja Dislere and Evita Lande. 15-16.04.2014;
- 6) Regular video presentations in the window screen of Riga Photonics Center;
- 7) Seminar on Photonics commercialization cases, 15.05.2014;
- 8) FOTONIKA-LV was co-organizer with the Space Technology Cluster of Latvia and the firm Space Technology and Science Group, Oy, of ICCST 2014, “*the International Conference on Collaboration in Space Technologies*”, held on June 5-6, June 2014 at the Kipsala Exhibition Center, Riga, Latvia. The conference opened by former President of Latvia Vaira Vike Freiberga, had over 100 participants most from Latvia. There were presenters from several African countries and the African Union Commission, Latvia, Nordic and Central European countries. The purpose of the conference was aimed at opening a dialogue between Africa and our region to apply the extensive space research and space technology capabilities in our region to address critical problems in Africa including environment, security, food, water and other concerns. An exhibit presented the competencies of Latvian companies and research groups in space science and technologies with potential application in Africa. The conference web page with presentation videos: <http://www.iccst.eu>.
- 9) Report of the FOTONIKA-LV general meeting held 19.06.2014. publicized in a popular science magazine [2] to give publicity to FOTONIKA-LV;
- 10) www.fotonika-lv.eu was covered with additional content, for example, Innovations section included references and descriptions on Horizon 2020 calls for SME Instrument;



Fig. 1. Crowd of students in the Riga Photonics Center near the demonstration of the growth of snowflakes, 26.09.2014.

- 11) Youtube channel of FOTONIKA-LV established: https://www.youtube.com/channel/UCevoPT9W4YjpHLLSeM_D71Q/videos;
- 12) Riga Photonics Center participated with several presentations in the Researchers Night, 26.09.2015, *see Fig.1*;
- 13) More than 20 colloquiums held where researchers and SMEs local and foreign presented their research developments, *see Table 1*;
- 14) Special colloquium organized to mark The day of Photonics, 21.10.2014;
- 15) FOTONIKA-LV was active in public policy forums relating to research and innovation policy with presentations to members of the Saeima (*parliament*), ministerial officials, various groups and organizations involved with research policy with a particular emphasis on the role of photonics in the smart specialization strategy of Latvia. Letters have also been prepared to the Prime Minister of Latvia and counterparts in Estonia and Lithuania regarding photonics, smart specialization and the priority importance of innovation [3].

Table 1. Colloquiums organized by FOTONIKA-LV

No.	Date of Colloquia	Presenter and the title
45	17.01.2014.	Dr. Amara Graps, "New project initiatives"
46	28.01.2014.	Tomas Mosteikis and Arturas Belickas, Altechna LTD, "Services and capabilities of Altechna, serving photonics research and industry throughout the Baltic region"
47	31.01.2014.	Mats Kjaer, "Stimulating innovation in Latvia: The IDEON model from Lund, Sweden".
48	05.02.2014.	Dr. Amara Graps un Pauls Irbiņš, "How to raise interest and to convince students to study Natural sciences, engineering and mathematics"
49	28.02.2014.	A. Ubelis. Welcome address, "Importance of foresight for the development of Association FOTONIKA-LV and corporate tasks of FP7 FOTONIKA-LV", Vidvuds Beldavs, "Foresight process and smart specialization", Sandra Smalina, "Foresight process methodology"
50	11.04.2014.	Mikelis Svilans, "Research perspectives for silicon microphotonics in Latvia"
51	16.04.2014.	Dr. Arvind Kumar Saxena, Physical Research Laboratory Space & Atmospheric Science Division, Ahmedabad, Gujrat-India, "Study of cluster ions by mass spectrometry and optical spectroscopy"
52	25.04.201.4	Lecture by Prof. Eimuntas Paršeljūnas, (http://www.gkk.ap.vgtu.lt/media/cv/10033_EN.pdf), Vilnius Gedimina university Department of Geodesy and Cadastre
53	25.04.2014.	Prof. Dainis Draviņš (Lund Observatory), "Astronomical Imaging a Thousand Times Sharper than Hubble: Optical Interferometry with the Cherenkov Telescope Array"
54	04.06.2014.	M. Banaszekiewicz, "Space Technologies in Poland"
55	18.06.2014	Dr. Janis Kletnieks, "About Astronomy and Geodesy in 19 th century"
56	09.07.2014.	Dr. Marco Delbo, Lab. Cassiopee, UMR UNS-CNRS-OCA, Observatoire de la Cote d'Azur, "Cracking up asteroids with Sun light"

57	11.07.2014.	Dr. Georg Kirchner (Space Research Institute, Austria), "Satellite Laser Ranging at Graz – present status / future plans: - performance characteristics of SLR Graz - kHz SLR - Space debris, Multi-Static Ranging etc. - Satellite Spin determinations" Dr. Ludwig Grunwaldt, Germany, "Activities of GFZ Potsdam".
58	30.07.2014.	Dr. Amara Graps, FOTONIKA-LV, Dr. Normunds Jakobsons, Ventspils Radioastronomy Center, PhD student Karina Skirmante, "Potential of Ventspils Radioastronomy facilities for research training"
59	08.08.2014.	J. Upatnieks. "Presentation on the personal history of the development of holography. Discussion"
60	08.08.2014.	Dr. P. S. Smertenko, Dr. V. V. Naumov, Institute for Fundamental Problems of High Tehnology, Kyiv, Ukraine, "Eventual Proposal to HORIZON 2020 calls: "Skin Measurement Device for Health Care, Cosmetology and Dermatology""
61	15.08.2014.	P.Smertenko, V.Beldavs, "Technology commercialization and innovation ecosystem"
62	22.10.2014.	Contributors: Dr. Jorge del Pino, Dr.Ludwig Grunwald, Dr. Bülent Bayram, Dr. Mkhailo Medvedskyy, Dr. Maris Abele, Dr. Janis Balodis Dr. Ansis Zariņš, Dr. Augusts Rubans, Janis Vjaters, Elina Rutkovska, Andris Treijs, "Advances satellite ranging technologies. Discussion"
63	24.10.2014.	Dr. A. Saxena, "Research of molecular clusters"
64	11.11.2014.	Dr. Aden Hodzic, Scientific Industrial Liaison Officer , Central European Research Infrastructure, Consortium (CERIC) with Headquarter at Synchrotron Elettra, (Italy), "The Project 'CERIC-ERIC'" Scientific Applications and Technology Transfer"
65	19.11.2014.	A. Atvars. "Report on the conference "The Next Giant Leap: Leveraging Lunar Assets for sustainable pathways to Space", Hawaii, USA,9.-13.11.2014", http://2014giantleap.aerospacehawaii.info/ ; V. Beldavs, "International Lunar Decade"
66	21.11.2014.	Kalvis Salmiņš, Jorge Del Pino, "Report on the conference "19 th International Workshop on Laser Ranging: Remembering the past and Planning for Future"".
67	28.11.2014.	Dr. Gunars Silabriedis and others, "About scientific projects of Ministry of Defence of Latvia, projects of NATO and USA NAVY"
68	12.12.2014.	Prof. Dr. Kerim Allahverdi, TUBITAK (Turkish Scientific and Technological Research Council), MRC (Marmara Research Centre), Leader of the Lasers and Laser Technologies Lab., "Space Technologies Research Institute of TUBITAK"
69	30.12.2014.	Prof. Jumisree Sarmah Pathak, Indian Institute of Teacher Education, Grandhinagar, Gujarat, India, "Spectroscopic studies of spices, nanomaterials and clusters"

References

- [1] FP7 project "Unlocking and Boosting Research Potential for Photonics in Latvia – Towards Effective Integration in the European Research Area" (FOTONIKA-LV FP7-REGPOT-CT-2011-285912) leader Association FOTONIKA-LV of University of Latvia, coordinator: A. Ubelis;
- [2] A. Atvars. The General meeting of FOTONIKA-LV. Starry Sky (*Zvaignota Debess*), Autumn 2014, p. 63-66. (in Latvian)
- [3] V. Beldavs. Letter to Prime Minister Laimdota Straujuma and her counterparts in Estonia and Lithuania as well as other key figures in research and innovation policy – https://fotonikalv.files.wordpress.com/2014/12/research-and-innovation-a_pan-baltic-priority-2014-10-31.pdf.