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Section:

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

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BOOK OF ABSTRACTS



**INTERNATIONAL
YEAR OF LIGHT
2015**

Results of WP2 – Repatriation and Recruitment of Experienced Researchers

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This paper discusses the results of Work Package 2 – recruited and repatriated scientists and their contribution to the Association FOTONIKA-LV covering new research directions, projects and synergies. Some examples of work performed include establishing the Laboratory of Quantum Optics, evaluation of the possibility to use laser frequency combs to measure distances to satellites, night atmosphere spectroscopy, among others. Probably the most significant result is increased scientific capacity of the Association and knowledge sharing including technical “know-how” among the scientists involved in the project.

The following recruited and repatriated scientists were employed in 2014:

1. Dr. Nikolai Bezuglov, theoretician in atomic and molecular physics,
2. Dr. Teodora Vecheva Kirova, theoretician in atomic and molecular physics,
3. Dr. Asparuh Georgiev Markovski, researcher in mathematical modelling and programming,
4. Dr. Christina Andreeva Markovska, researcher in atomic and molecular physics,
5. Dr. Jorge Roberto del Pino Boytel, researcher in satellite laser ranging,
6. Dr. Roman Viter, researcher on biosensors,
7. Dr. Amara Graps, researcher in astronomy and space science,
8. Dr. Janis Alnis, the leader of the laboratory of quantum optics,
9. Dr. Ilja Fescenko, researcher in a laboratory of quantum optics,
10. PhD candidate Janis Blahins, technician and researcher in atomic and molecular physics,
11. Dr. Aigars Ekers, the leader of the molecular beam laboratory,
12. Dr. Arvind Saxena, researcher in atomic and molecular clusters.