

****Deadline: 28 June 2006****

2005-06 Annual Report for: Lasers and Electro-Optics Society (LEOS) Benelux Chapter

I. Basic Information:

A. Reporting Chapter Chairman:

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B. Joint Chapter? Yes No
If joint, please list names of other participating societies.

C. Number of area LEOS members as of approximately May 30 (contained in geographical information of the LEOS Membership Directory):

	<u>Number</u>	<u>Percent</u>
Previous Year	167	100
Current Year	151	90
Change	16	-10

D. Total Number of Technical Meetings:

This Year: 12

Last Year: 5

E. Average Technical Meeting Attendance

	<u>This Year</u>		<u>Last Year</u>		<u>Number % Change</u>
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	
Total:	<u>64</u>	<u>100</u>	<u>63</u>	<u>100</u>	<u>2</u>
IEEE:	<u>25</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
LEOS:	<u>17</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

F. Chapter funds at the beginning of the year: EUR 12,328.18

G. Total Expenditures: EUR 1,180.61

Total Income: EUR 1,908.54

End of Year Balance: EUR 13,056,11

H. Officers for 2005-06 (*incoming* officer list)

I. Check List:

x Sent L-31 forms to IEEE (minimum of 2/yr **required** by IEEE) www.ieee.org/L31

___ Sent nomination for LEOS Awards -Tab 6 or

II. **Overview of Basic Chapter Activities:**

Activity Type	Title/Speaker/Location/Date	Attendance LEOS/IEEE/Tot	Joint Activity Sponsors
colloquium	Recent developments in optical signal processing based on quantum-dot semiconductor optical amplifier, Tomoyuki Akiyama, Eindhoven University of Technology (NL), Aug 11, 2005	11/16/30	
colloquium	Hybrid Photonic Signal Processing, Nabeel A. Riza, Eindhoven University of Technology (NL), Sep 2, 2005	11/17/25	
symposium	10th annual symposium of the IEEE/LEOS Benelux Chapter, Faculte Polytechnique de Mons (B), Chairmen, Patrice Megret, Marc Wuilpart, Dec 1,2, 2005	50/75/153	See below.)
administrative	Board meeting, Faculte Polytechnique de Mons (B), Dec 2, 2005	7/7/0	
colloquium	Scalar and vectorial optical approaches to semiconductor lasers simulations, Tomasz Czyszanowski, Eindhoven University of Technology (NL), Dec 12, 2005	10/15/30	
colloquium	Optical Communication Utilizing Chaotic Semiconductor Lasers: Towards High Bit-Rates and Commercial Fibre-Optic Links, Ingo Fischer, Eindhoven University of Technology (NL), Jan 13, 2006	10/15/30	
symposium	SuperTU/esday: Broadband Communication. Organization: Ton Koonen, TU/e (a.o.) Speakers: Rod Alferness, Peter Vetter, Emile Aerts, a.o. University of Technology (NL), Apr 4, 2006	60/90/360	TU Eindhoven, Cobra institute
colloquium	Monolithic semiconductor ring lasers: design, experiments and applications, Guido Giuliani, Eindhoven University of Technology (NL), May 12, 2006	7/13/20	
workshop	Introducing Optical Solutions in the User and Access Domain, University of Ghent (B), May 19, 2006	10/15/30)
colloquium	Mode-locking of external-cavity semiconductor lasers, Josep Mulet, Eindhoven University of Technology (NL), May 19, 2006	9/13/35	
colloquium	Optical Properties of Metal-Nanoparticle Arrays, David S. Citrin, Eindhoven University of Technology (NL), May 29, 2006	10/15/30	
colloquium	The all fixed and mobile communication world, Wilbert de Krom, Eindhoven University of Technology (NL), Jun 20, 2006	10/15/30	

*) Organized in collaboration with IEEE/LEOS Benelux Student Chapter

III. **List most significant chapter improvements over last year (*Most Improved Chapter Award*)**

IV. List workshops, symposia, educational programs, consulting programs, job fairs etc. (Most Innovative Chapter Award)

The Benelux chapter organized a one and half day symposium and a one day workshop in collaboration with the Benelux student chapter. Also, a number of colloquia were held, with renowned speakers, about topics in the LEOS fields of interest.

An additional one-day symposium was organized, with support from the Benelux chapter, for the celebration of the 50th anniversary of the Eindhoven University of Technology, which was a very successful event, attracting over 350 attendees.

V. Number of Members elevated to Senior-Member grade (New Award).

VI. Miscellaneous Information/Elaboration on any of the above entries (see below)

VII. "Best Practices" and Pre-college Programs

Large part of the vitality of our chapter is due to the active involvement of a large number of students (Ph.D. as well as master). They can easily become a LEOS member when they attend the annual symposium, which is the major local event in the Benelux region in the LEOS related fields.

This year's symposium was a one and half day event with over 150 attendees and 77 scientific contributions, comprising 5 invited papers, 16 contributed papers selected for oral presentation and 56 poster presentations. The symposium proceedings are available in printed form at the event itself, and are also publicly accessible through the chapter website (leosbenelux.org). Most of the contributions were presented by students. The edition of proceedings of all contributions gives an additional stimulus, as academic contributors are interested in opportunities for scientific output. The poster session was linked to a Student Poster Contest, which has rewarded the best poster presented by a student as a first author.

The involvement of students is also seen through the creation of an IEEE/LEOS Benelux Student Chapter in 2004, which has really started off in 2005. Students were already involved through their membership of the Chapter board, but the student-specific activities, such as company visits, justified the formation of a separate chapter. The student chapter is also co-organizing our annual symposium, as well as the annual workshop that focuses on a specific topic. This year's workshop about "Introducing Optical Solutions in the User and Access Domain" was held in Ghent had two invited speakers and 6 contributed papers. Also, two of our Benelux student members (Sander Jansern and Jarek Turkiewicz) were awarded a LEOS Student Fellowship (\$5000 each).

The board of the Benelux Chapter consists of a good mix of engineers and scientists from industry as well as academic institutions including two active student members. Over the 9 years of existence of the Chapter there is a continuous refreshing of board members sufficient slow to conserve experience and knowledge, but sufficiently rapid to avoid too much routine and to stimulate renewal.

We wish to have our chapter considered for the following chapter awards:

- Chapter of the Year (All information)
- Best Membership Percentage Increase (Part I.C.)
- Most Improved Chapter (Part III)
- Most Innovative Chapter Activities (Part IV)
- Most Senior Member Elevations (Part V)

Chapter Chair Signature:



VI. Miscellaneous Information/Elaboration on any of the above entries

We organized our 10th annual symposium as a one day and half event with an evening session and a complete day session. The symposium has been managed such that two invited talks were presented on December 1, 2005 evening:

1. Luc Thevenaz: "Light controlling light in an optical fibre: from very slow to faster-than-light speed" (Ecole Polytechnique Federale de Lausanne)
2. Jens Buus: "What is new in WDM sources?" (Gayton Photonics)

This was followed by the odd-numbered poster presentations (28). The next day session was balanced with oral (16) and even-numbered posters presentations (28) and three invited talks:

1. C. Sheldon: "Analysis of Serial Data stream using Jitter Peak and Eye Contour plots" (Synthesis Research inc.)
2. R.E. Kennedy: "High Power Fibre Lasers and Nonlinear Optics for Wavelength Diversity" (Imperial College, London)
3. S. Massar: "Protocols for Quantum Communication" (Universite Libre de Bruxelles)

As usual, the emphasis has been put on exchange between students, professionals, professors, which is best facilitated through the poster sessions that are combined with lunch and drinks. The large number of papers presented and their high quality demonstrate the vitality of the Benelux chapter. The printed version of the proceedings are distributed among the participants, the electronic version is freely accessible on the Benelux Chapter website (leosbenelux.org).

Tenth Annual Symposium of the IEEE/LEOS Benelux Chapter

Meeting date: December 1-2, 2005

Venue: Faculte Polytechnique de Mons, Mons (B)

Admission charge: Yes

Meeting Category: Technical

Guests: 5 guest speakers

Total: 153

Pres. Officers: Patrice Megret and Marc Wuilpart (Faculte Polytechnique de Mons)

Board of LEOS- Benelux 2005-2006 <http://leosbenelux.org/>

Chair:

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Other board members:

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