

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

2006-07 Annual Report for: Lasers and Electro-Optics Society (LEOS) Benelux Chapter

I. Basic Information:

A. Reporting Chapter Chairman:

Name: Xaveer Leijtens
Address: Eindhoven University of Technology
P.O. Box 513
NL-5600 MB Eindhoven
The Netherlands
Phone: +31 40 247 5112
Fax: +31 40 245 5197
Email: X.J.M.Leijtens@tue.nl

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	151	
Current Year	??	
Change		

D. Total Number of Technical Meetings:

This Year: 21

Last Year: 12

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>45</u>	<u>70</u>	<u>64</u>	<u>100</u>	<u>-30</u>
IEEE:	<u>21</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
LEOS:	<u>14</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

F. Chapter funds at the beginning of the year: Eur 13056

G. Total Expenditures: Eur 13782

Total Income: Eur 14872

End of Year Balance: Eur 14146

H. Officers (new officer list)

On a separate sheet of paper list the Chapter Officers (name, address, phone, fax, email) This

information will be used to update the Chapter web site on the LEOS Home Page. Include your URL if your chapter has a home page.

I. Check List:

- Sent L-31 forms to IEEE (minimum of 2/yr required)
<http://www.ieee.org/organizations/rab/scs/L-31.html>
- Sent nomination for LEOS Awards -Tab 6 or
<http://www.ieee.org/leos/awards>
- Nominated member for Senior Member grade
<http://www.ieee.org/membership/upgrade.html>

II. Overview of Basic Chapter Activities:

List

Activity Type	Title/Speaker/Location/Date	Attendance LEOS/IEEE/Tot	Joint Activity Sponsors
colloquium	Lasers dynamics: from basic concepts to applications, Thomas Erneux, Eindhoven University of Technology, Oct. 6, 2006	18/23/40	
colloquium	Research in the Optical Communications Group of UPC, on access, transmission and networking, prof. Josep Prat, Eindhoven University of Technology, Oct. 23, 2006	10/15/25	
colloquium	Circular Bragg Nanocavities - Beyond the Total Internal Reflection Limit, Dr. Jacob Scheuer, Eindhoven University of Technology, Sep. 9, 2006	12/17/30	
colloquium	New life for mode-locked semiconductor lasers, Prof. John McInerney, Eindhoven University of Technology, Nov. 17, 2006	12/18/35	
colloquium	Fiber Optic Parametric Amplifiers and their applications, Dr. Peter A. Andrekson, Eindhoven University of Technology, Nov. 28, 2006	18/24/45	
symposium	Joint European Platform for InP-based Photonic Integration of Components and Circuits (JePPIX): "How Micro-Photonics can work for you", Eindhoven University of Technology, Nov. 30.	20/30/107	
symposium	11th annual symposium of the IEEE/LEOS Benelux Chapter, Eindhoven University of Technology, Nov. 30-Dec. 1, 2006	60/80/160	See below. *)
administrative	Board meeting, Eindhoven University of Technology, Dec 1, 2006	9/9/9	
colloquium	Photon funneling from wavelength-scale photonic crystal light emitters, Prof. Yong Hee Lee, Eindhoven University of Technology, Dec. 12, 2006	12/18/35	
colloquium	High Capacity Optical Interconnects, Dr. Madeleine Glick, Eindhoven University of Technology, Jan. 12, 2007	18/27/50	
colloquium	OSMOSIS research project, Dr. Cyriel Minkenberg, Eindhoven University of Technology, Feb. 23, 2007	10/13/27	
colloquium	Novel semiconductor-based lasers for telecom and non-telecom applications, Shinji Matsuo and	10/16/35	

	Hiroyuki Suzuki, Eindhoven University of Technology, Mar. 19, 2007		
colloquium	Photonic Crystal Devices, John O Brien, Eindhoven University of Technology, Apr. 2, 2007	14/15/30	
colloquium	Ordered Quantum Wires and Dots for Nanophotonics Applications, Dr. Eli Kapon, Eindhoven University of Technology, Apr. 10, 2007	12/17/35	
colloquium	Photonic Integrated Devices for Transparent Optical Networking, Professor Yoshiaki Nakano, Eindhoven University of Technology, Apr. 23, 2007	17/20/40	
colloquium	Integrated Semiconductor Active Waveguide Optical Isolators, Dr. Hiromasa SHIMIZU, Eindhoven University of Technology, Apr. 23, 2007	17/20/40	
colloquium	Status of High Speed Plastic Optical Fiber for Broadband Society, Yasuhiro Koike, Eindhoven University of Technology, Apr. 26, 2007	10/15/32	
workshop	Progress in Optical Devices and Materials, Eindhoven University of Technology, May 25, 2007	20/25/40	*)
colloquium	Slow light in semiconductor waveguides, Jesper Moerk, Eindhoven University of Technology, Jun. 12, 2007	15/20/40	

*) 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 in collaboration with the Joint European Platform for InP-based Photonic Integration of Components and Circuits (JePPIX): "How Micro-Photonics can work for you". This symposium was a very successful event that attracted over 100 attendees. It was collocated with our annual symposium and the attendees were free to visit the evening program, including a poster session and two invited talks.

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

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

Two of our LEOS Benelux members were nominated IEEE fellow: prof. Roel Baets (Ghent University) and prof. Ton Koonen (Eindhoven University). Both are members of the advisory board of the LEOS Benelux chapter.

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 Benelux chapter has a separate student chapter, started in 2004, that organizes student-specific activities, such as company visits. In addition, the student chapter is co-organizing our annual symposium, as well as the annual workshop that focuses on a specific topic. This year's workshop about "Progress in Optical Devices and Materials" was held in Eindhoven and had two invited speakers and 10 contributed papers.

Two of our LEOS Benelux members were nominated IEEE fellow: prof. Roel Baets (Ghent University) and prof. Ton Koonen (Eindhoven University).

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:

A handwritten signature in black ink, appearing to be 'W. J. J. J.', written in a cursive style.

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

We organized our 11th 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 November 30, 2006 evening:

Gerlas van den Hoven, Genexis, The Netherlands "The Dynamic Bandwidth of Fiber-to-the-Home"

Ton Koonen, TU/e, The Netherlands , "Broadband Communication research activities at the COBRA Institute"

This was followed by the odd-numbered poster presentations (36). The next day session was balanced with oral (16) and even-numbered posters presentations (35) and two invited talks:

David Plant (McGill University, Canada) "Agile All-Photonics Networks - A Vision of Optical Networks for 2012 and Beyond"

Masaya Notomi (NTT Basic Research)"All Optical Control of Light by Photonic Crystal Nanocavities"

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).

Eleventh Annual Symposium of the IEEE/LEOS Benelux Chapter

Meeting date: November 30 - December 1, 2006

Venue: Eindhoven University of Technology (NL)

Admission charge: Yes

Meeting Category: Technical

Guests: 4 guest speakers

Total: 160

Pres. Officers: Ton Koonen and Henrie van den Boom

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

Chair:

Xaveer Leijtens
Eindhoven University of Technology
PT 10.10
P.O. Box 513
5600 MB Eindhoven (The Netherlands)
Tel: +31 40 247 5112
Fax: +31 40 244 8375
Email: X.J.M.Leijtens@tue.nl

Vice Chair:

Geert Morthier
Ghent University - IMEC
Department of Information Technology
Sint-Pietersnieuwstraat 41
9000 Gent
Belgium
Phone: +32 9 2648934
Fax: +32-9-264 3593

Secretary:

Jan Danckaert
Vakgroep Toegepaste Natuurkunde en Fotonica (TONA)
Faculteiten Wetenschappen en Ingenieurswetenschappen
Vrije Universiteit Brussel
Pleinlaan 2, B - 1050 Brussel (B)
tel: 02 / 629 3659 (secr: 3453)
fax: 02 / 629 3450

Treasurer:

Henrie van den Boom
Eindhoven University of Technology
PT 12.27
P.O. Box 513
5600 MB Eindhoven (The Netherlands)
Phone: + 31 40 247 34 44
Fax: + 31 40 245 51 97
H.P.A.v.d.Boom@tue.nl

Previous Chair

Patrice Mégret
Electromagnetism and Telecommunications
Boulevard Dolez 31
B-7000 MONS (Belgium)
Tel: +32 65 37 41 91
Fax: +32 65 37 41 99
Email: Patrice.megret@fpms.ac.be

Other board members and members of the advisory board:

Alfred Driessen, MESA+, IOMS, University of Twente, A.Driessen@el.utwente.nl
Fouad Karouta, Eindhoven University of Technology, F.Karouta@tue.nl
Roel Baets, University of Ghent, baets@intec.rug.ac.be
Philippe Emplit, Université Libre de Bruxelles, Philippe.Emplit@ulb.ac.be
Ton Koonen, TU Eindhoven, a.m.j.koonen@tue.nl

Djan Khoe, TU Eindhoven, g.d.khoe@ele.tue.nl
Meint Smit, TU Eindhoven, m.k.smit@tue.nl
Hugo Thienpont, VU Brussel, hthienpo@vub.ac.be
Taco Visser, VU Amsterdam, tvisser@nat.vu.nl
Kees Vanbochove, KPN, a.c.vanbochove@kpn.com
Marc Wuilpart, Faculté Polytechnique de Mons, marc.wuilpart@fpms.ac.be