

# 1997-98 Annual Report for: IEEE LEOS BENELUX CHAPTER

**I. Basic Information:**

A. Reporting Chapter Vice-Chairman:

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B. Joint Chapter?  Yes  No

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

	Number	Percent
Previous Yr	84	
Current Year	81	
Change	-3	-4%

D. Total Number of Technical Meetings:

This Year:	3
Last Year:	4

E. Average Technical Meeting Attendance

	<b>This Year</b>		<b>Last Year</b>		<b>Number % Change</b>
	Number	Percent	Number	Percent	
Total:	90	—	—	—	
IEEE:	>15	—	—	—	
LEOS:	15	—	—	—	

F. Chapter funds at the beginning of the year: \$ 917 (DFL1834.24)

G. Total Expenditures: \$ 0 (see note below) Total Income: 973\$ (1925.31 DFL) End of Year Balance: 1890 (3759.55DFL) (an approximate conversion rate of 0.5\$/DFL was assumed)

In this balance the expenditures and income of the symposium and the workshop are not included. Both activities were self-supporting due to some extra sponsoring from Dutch or Belgian government bodies. The symposium had a budget of about 7000 \$ (14000DFL). The workshop had a budget of about 2000\$ (78000 BEF).

H. Incoming Officers (name, address, phone, FAX)

	Chair	Vice-Chair	Secretary	Treasurer
Name	André Boot	Roel Baets	Meint Smit	Erik Pennings
Address	KPN Research P.O. Box 421 2260 AK Leidschendam The Netherlands	University of Ghent St. Pietersnieuwstraat 41 B-9000 Belgium	Delft University of Technology Mekelweg 4 2628 CD Delft, The Netherlands	Philips Optoelectronics Bldg WAD-1 Prof.Holstlaan 4 5656AA Eindhoven The Netherlands
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## II. Overview of Basic Chapter Activities:

	Activity Type (Tech Meeting, Workshop, etc)	Title/Speaker or Workshop Name	Attendance			Joint Activity Sponsors
			LEOS	IEEE	Total	
1.	Symposium	Annual Symposium of the IEEE LEOS Benelux Chapter, November 26, 1997, Eindhoven, The Netherlands	>25	>40	185	
2.	Lecture	Lecture on "INTEGRATED OPTICS IN PLANAR LIGHTWAVE CIRCUITS" by Dr K. Okamoto from NTT on April 17, 1998 in Eindhoven, The Netherlands				
3.	Workshop	Integrated optics and passive micro-optics, June 16, 1998, Brugge, Belgium	>10	>15	56	
5.						
6.						
7.						
8.						
9.						
10						
11						
12						
			Average <b>Technical</b> Meeting Attendance			

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

During 1997-1998 the chapter has continued to organize technical meetings, in particular a one-day symposium covering a broad range of LEOS topics, a one-day topical workshop and a lecture by a LEOS distinguished lecturer. For details see below.

The newsletter editor (Chris van der Plaats, Bell-Labs, Lucent Technologies, Huizen, The Netherlands, vanderplaats@lucent.com) has kept our chapter's internet home page (<http://www.cobra.tue.nl/leos/index.html>) up to date with information on the IEEE/LEOS Benelux chapter, news items, conference announcements and reports, interesting links, job opportunities, etc. Furthermore, an email exploder has been established which enables easy distribution of information, like e.g. this annual report, by email to all our chapter members.

The job announcements on the LEOS Benelux website were not so much of a success. Only 3 announcements were posted during the trial period of 6 months. Main reason is that companies prefer to keep their own website with job information updated. It was therefore decided to modify the initiative and provide links to job information websites of companies and research institutes with activities in the fields of interest of LEOS. A pinboard for job announcements on the LEOS Benelux symposium was more successful. 5 jobs were advertised on one day.

Education: The Faculty of Electrical Engineering of the Eindhoven University of Technology decided to reimburse student fees for one international society membership of any choice. For Electrical Engineering students, the choice is generally the IEEE. In that case, the Faculty reimburses the student fee for the IEEE membership plus the student fee for one IEEE Society.

Prof. Djan Khoe has informed colleagues in the Benelux and in the Region 8 about this and received positive reactions. Many professors in the Benelux and in the Region 8 are now considering to reimburse student fees, one way or another. As a result, LEOS student membership in Region 8 is clearly increasing.

For the next IEEE-LEOS-Benelux symposium, to be held on November 26 1998 in Gent, Belgium, the plan is to offer IEEE-LEOS membership to non-member students as part of the registration fee.

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

1.

The second "**Annual Symposium of the IEEE LEOS Benelux Chapter**" held, Wednesday November 26 1997, at University Eindhoven in the Netherlands. This second symposium has, once more, been an overwhelming success: more than 180 participants from the Netherlands and Belgium attended the meeting. 67 contributions were presented, most (due to the limited time) in the form of posters. 4 invited presentations were held. As for the first symposium a book was published with 4-page summaries of all contributions.

2.

**Workshop on "Integrated optics and passive micro-optics"** was held on June 16, 1998 in Brugge, Belgium. The workshop was co-located with the international conference "Optics in Computing" and preceded it by one day, thereby allowing participants to attend both meetings.

### Miscellaneous Information/Elaboration on any of the above entries (please attach up to ONE page of further discussion)

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)

Chapter Chair signature:

# Activities 1996-1997 IEEE LEOS Benelux chapter

During 1997-1998 the IEEE-LEOS Benelux chapter has continued to be active to organize a symposium, a workshop and a lecture by a LEOS distinguished lecturer.

## Annual Symposium 1996

The Second Annual Symposium of the IEEE/LEOS Benelux Chapter was held at the Eindhoven University of Technology on November 26, 1997. It was co-sponsored by COBRA Inter-University Research Institute, Eindhoven University of Technology, Technology Foundation STW, Senter Innovatieve Onderzoek Programma - Electro-Optics, Philips Optoelectronics and Aixtron GmbH.

This one-day symposium was very successful and attracted 185 participants representing the Dutch and Belgian universities, companies and other research institutes working in the various LEOS fields from lasers and integrated optics up to polymers and non-linear optics. The aim of the Annual Symposium emphasizes informal discussions between scientists and industrial engineers. The program was split into two plenary sessions and twice two parallel sessions that totaled four invited talks and 18 contributed papers. After the lunch a poster session was held where 45 posters of high quality works covering the different LEOS fields of interest.

## IEEE LEOS Benelux chapter workshop 1997

The 1998 edition of the IEEE/LEOS workshop was held in Brugge (Belgium) on June 16th, in conjunction with the "Optics in Computing" international conference. "Integrated and Passive Micro-optics" was selected as this year's workshop topic. Two invited talks were given at this workshop : "Progress in packaging techniques for free-space micro-optical systems" by A. Kirk (McGill University, Montreal, Canada) and "Packaging of optoelectronic devices" by C.M. Groeneveld (Philips Optoelectronics, Eindhoven, The Netherlands). In addition to this, 16 contributed papers were presented in three sessions ("Micro-optics for coupling of optoelectronic devices", "Active and passive waveguide components" and "Integration of active and passive waveguide components").

The workshop enjoyed the active presence of 56 participants from various universities, research institutes and R&D departments of industrial organisations.

## IEEE LEOS Benelux chapter Colloquium 1998

On Friday, April 17th 1998, Dr Katsunari Okamoto from NTT Optoelectronics Laboratories and distinguished lecturer of IEEE-LEOS, has presented a lecture on "INTEGRATED OPTICS IN PLANAR LIGHTWAVE CIRCUITS" in Eindhoven, The Netherlands. The lecture was a combined initiative of the IEEE-LEOS Benelux Chapter and the COBRA Inter-University Reserach Institute.

Planar lightwave circuits (PLCs) are devices that integrate fiber-matched silica waveguides on silicon or glass substrate to provide an efficient means for hybrid opto-electronic integration of fibre-matched active or passive devices. PLCs based on terraced-silicon platform technologies are important both for fiber-to-the-home (FTTH) applications and high-speed signal processing. Very low-loss silica waveguides with well-defined core geometry are suitable for designing complicated circuits by utilizing various numerical simulation techniques. In his talk dr. Okamoto reviewed various PLC devices such as NxN star couplers, AWG multiplexers, optical add/drop multiplexers, thermo-optic matrix switches and hybrid optoelectronics integration technologies for WDM and subscriber networks.

## Homepage IEEE-LEOS Benelux section

The IEEE LEOS Benelux chapter maintains a World Wide Web site on the Internet (<http://www.cobra.tue.nl/leos/index.html>). On this site information can be found concerning the IEEE Benelux chapter, the chapter board, IEEE LEOS membership, news, the annual symposium, links to company websites and much more.