

1996-97 Annual Report for: IEEE LEOS BENELUX CHAPTER

I. Basic Information:

A. Reporting Chapter Chairman:

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B. Joint Chapter? [] Yes [X] No

If joint, please list names of other participating societies.

- 1.
- 2.
- 3.

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

D. Total Number of Technical Meetings:

	Number	Percent
Previous Yr	60	
Current Year	84	
Change	+24	+40 %

This Year:	4
Last Year:	-

E. Average Technical Meeting Attendance

	This Year		Last Year		Number % Change
	Number	Percent	Number	Percent	
Total:	<u>439</u>	<u>xxxxx</u>	<u>-</u>	<u>xxxxx</u>	chapter was started in 96
IEEE:	<u>> 64</u>	<u>_____</u>	<u>-</u>	<u>_____</u>	
LEOS:	<u>> 60</u>	<u>_____</u>	<u>-</u>	<u>_____</u>	

F. Chapter funds at the beginning of the year: \$ 0, chapter was started in 96

G. Total Expenditures: \$ 0 Total Income: \$ 965 (DEL 1834,34) End of Year Balance: \$ 965 (DEL 1834,34)

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

	Chair	Vice-Chair	Secretary	Treasurer
Name	André Boot	Roel Baets	Meint Smits	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 Bldng 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	30	>30	180	
2.	Symposium	Photonics in information systems	25	30	200	
3.	Colloquium	"High-Efficiency Vertical Cavity Surface Emitting Lasers", Dr. Kevin L. Lear.	5	4	23	
4.	Workshop	Optical amplifiers and lasers for optical communication			36	
5.						
6.						
7.						
8.						
9.						
10						
11						
12						
			Average Technical Meeting Attendance			

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

The formation of the chapter in 1996.

The organisation of two symposia, one workshop, and a colloquium.

Homepage IEEE-LEOS Benelux section: To enhance the communication with its (potential) members the IEEE LEOS Benelux chapter World Wide Web site on the Internet was constructed.

(<http://www.cobra.tue.nl/leos/index.html>).

Student activities : IEEE LEOS is in the process of much more encouraging student activities (PhD students are considered students in this context of IEEE). The idea is to encourage the forming of IEEE LEOS STUDENT Chapters and to encourage overseas conference attendance of PhD students with papers accepted at IEEE conferences. Since universities in Europe are small as compared to the US counterparts, student chapters covering just one university is not meaningful. Djan Khoe and Paul Lagasse developed the idea to try the creation of a LEOS student chapter covering a region which include the universities of Gent, Brussels, Eindhoven, Duisburg, Delft and Twente. Idelfonso Tafur, a PhD student in Eindhoven (i.tafur@ele.tue.nl) has started actions in this direction. He has approached contact persons at the universities just mentioned. If adequate responses can be collected, the "regional" LEOS student chapter can be formed.

Education: The PATO (Stichting voor Post Academisch Onderwijs in de Technische Wetenschappen) organisation has implemented the IEEE suggestion to prominently display the IEEE logo on folders in the area of Electrical Engineering. Folders are sent to IEEE chapter chairmen for further advertisement among the chapter members, if the field of the course is relevant. In return, IEEE members will obtain a discount when registering for the PATO course. A new development within PATO is also that in principle courses may also be organised in English. This is more in line with the IEEE interest. The issues as discussed above were proposed to PATO from the position of Djan Khoe as IEEE representative in the PATO board.

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

1.

The first "**Annual Symposium of the IEEE LEOS Benelux Chapter**" held, Thursday 28 November 1996, at University Twente the Netherlands. This first symposium has been an overwhelming success: more than 180 participants from the Netherlands (134) and Belgium (46) attended the meeting. They came from research institutes of 12 different universities and 19 companies within the Benelux. The large and active attendance of so many specialists indicates that this LEOS symposium is filling a gap. In total 80 contributions - due to the restricted time for oral sessions mostly posters - have been presented that demonstrate the high quality and broad range of activities within the field of LEOS in the Benelux.

2.

Workshop "optical amplifiers and lasers for optical communication": The workshop was held at 6 June at the Vrije Universiteit Amsterdam. The workshop is divided into five sessions: Erbium-Based devices I, Technology and Networks, VCSELs, Theory and Simulation, Erbium-Based devices II. This workshop was attended by 36 participants.

3.

Symposium "Photonics in information systems" 1997. The symposium "Photonics in information systems" was organised on February 28, 1997 in Gent. Three invited speakers gave each their view of the state of the art and future of Photonics: Prof. Paul Lagasse (university of Gent), Prof. David Miller (Stanford university), Prof. Robert Brown (sharp research Europe), and Prof. R. Baets. More than 200 participants attended the symposium.

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

In 1996 the IEEE LEOS Benelux chapter has been formed. The highlights from 96-97 are activities concerning the annual workshop, the annual symposium, a colloquium, the symposium "Photonics in information systems", and the chapter homepage.

Annual Symposium 1996

The first "Annual Symposium of the IEEE LEOS Benelux Chapter" held, Thursday 28 November 1996, at University Twente the Netherlands. Because of uncertainty in the response of the field, this first symposium has been restricted to one day. Now, looking back, one may consider this symposium as an overwhelming success: more than 180 participants from the Netherlands (134) and Belgium (46) attended the meeting. They came from research institutes of 12 different universities and 19 companies within the Benelux. The large and active attendance of so many specialists indicates that this LEOS symposium is filling a gap. In total 80 contributions - due to the restricted time for oral sessions mostly posters - have been presented that demonstrate the high quality and broad range of activities within the field of LEOS in the Benelux. Scanning the content of the proceedings (Eds. A. Driessen and R.M. de Ridder, ISBN 90-365-0902-5) one finds contributions from industry or universities, some describing a great co-operation project, financed by national or European programs, others restricting themselves to a detail aspect of a specific laser. The largest group of contributions is somewhat related to optical data communication. This can be attributed to the economic impact of the related industry. A trend present in the great international conferences supported by LEOS can be observed also in this Symposium: besides aspects of the physical implementation many contributions deal explicitly with system aspects. This could reflect the maturity of the field and the consequent shift of interest in industry. This Symposium has been made possible by support of the IOP Electro-Optics, organised by Senter, the Dutch Technology Foundation STW, and the Research Institutes COBRA (Eindhoven) and MESA (Twente). The Second Symposium will be held on 26 November 1997 at University of Eindhoven.

IEEE LEOS Benelux chapter workshop 1997

The first IEEE LEOS Benelux chapter workshop has been organised. The workshop was held at June 6 at the Vrije Universiteit Amsterdam. The workshop title is "optical amplifiers and lasers for optical communication". The workshop is divided into five sessions.: Erbium-Based devices I, Technology and Networks, VCELS, Theory and Simulation, Erbium-Based devices II.

IEEE LEOS Benelux chapter Colloquium 1997

An IEEE LEOS Benelux chapter colloquium has been held at 8 April 1997 at University of Technology Eindhoven. At this colloquium Dr. Kevin L. Lear, IEEE LEOS distinguished lecturer 96-97, has given the lecture titled: "High-Efficiency Vertical Cavity Surface Emitting Lasers".

Symposium "Photonics in information systems" 1997

The symposium "Photonics in information systems" was organised on February 28, 1997 in Gent. It marked the end of a Belgian interuniversity research project (IUAP24) on Photonics in information systems, which involved the universities of Gent, Brussels and Louvain-la-neuve. Three invited speakers gave each their view of the state of the art and future of photonics: Prof. Paul Lagasse (university of Gent) covered optical communication, Prof. David Miller (Stanford university) covered photonics in computing and Prof. Robert Brown (sharp research Europe) covered photonics in recording and displays. Finally Prof. R. Baets presented an overview of the results of the collaborative project. More than 200 participants attended the symposium.

Homepage IEEE-LEOS Benelux section

Another activity initiated by the chapter to enhance the communication with its (potential) members was the construction of the IEEE LEOS Benelux chapter 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, and much more.

Main goals for 97-98

Continue to organise annual symposiums and workshops.