



## **SILESIAN UNIVERSITY OF TECHNOLOGY SPIE STUDENT CHAPTER ANNUAL REPORT FOR 2009**

### **INTRODUCTION**

The Silesian University of Technology SPIE Student Chapter was created in August 2005 at the Silesian University of Technology in Gliwice, Institute of Physics, Department of Optoelectronics at the initiative of prof. Tadeusz Pustelny, and Ph.D Kamil Barczak. The chapter members are Ph.D. students from the Institute of Physics, as well as students of Electronics and Telecommunication from the Mathematics-Physics Faculty and the Electrical Engineering faculty at Silesian University of Technology. Currently Silesian University of Technology SPIE Student Chapter is localized in The Department of Optoelectronics under the Faculty of Electrical Engineering.

### **ADRESS**

Department of Optoelectronics,  
 Faculty of Electrical Engineering,  
 Silesian University of Technology,  
 Akademicka Str. 2A, 44-100 Gliwice, Poland.

### **CHAPTER WEB SITE**

<http://optics.polsl.pl/spie>

### **NEWLY ELECTED CHAPTER OFFICERS**

Function	Name	Position	Address email	SPIE ID
Advisor	prof. eng. Tadeusz Pustelny	professor	Tadeusz.Pustelny@polsl.pl	
President	M.Sc. eng Przemyslaw Struk	Ph.D. student	Przemyslaw.Struk@polsl.pl	3197718
Vice-President	M.Sc. eng Grzegorz Konieczny	Ph.D. student	Grzegorz.Konieczny@polsl.pl	3246381
Secretary	eng Maciej Setkiewicz	M.Sc student	Maciej.Setkiewicz@polsl.pl	3145381
Treasurer	M.Sc. eng Daniel Nabagło	Ph.D student	Daniel.Nabagla@polsl.pl	3189983

## LIST OF THE STUDENT CHAPTER MEMBERS CURRENTLY ACTIVE

- 1 Przemyslaw Struk - PhD student
- 2 Grzegorz Konieczny - PhD student
- 3 Artur Szewczuk - PhD student
- 4 Daniel Nabaglo - PhD student
- 5 Aneta Olszewska - PhD student
- 6 Marcin Jesionek - PhD student
- 7 Justyna Juszczyk - MSc student
- 8 Lukasz Pawela - MSc student
- 9 Maciej Setkiewicz - MSc student

## CHAPTER ACTIVITIES FOR 2008

### IV International SPIE Students Chapters Meeting 14-16 may 2009 Torun

Participation of the **IV International SPIE Students Chapters Meeting 14-16 may 2009** held in Torun in conjunction with Polish Student Chapters from Torun, Gliwice, Wroclaw, Warsaw and Student Chapters from Bucharest Romania.



Fig. 1 President Przemyslaw Struk during a presentation “**Activities of Silesian University of Technology SPIE Student Chapter**” Student Chapters’ activities session



Fig. 2 President Przemyslaw Struk giving a lecture on **Integrated optoelectronic structures based on high band gap oxide semiconductors for applications in gas sensors** at The Optical metrology session.



Fig. 3 Vice president Grzegorz Konieczny during a presentation *Noninvasive blood pressure measurement methods for using in artificial heart* at Optical techniques in medicine session.

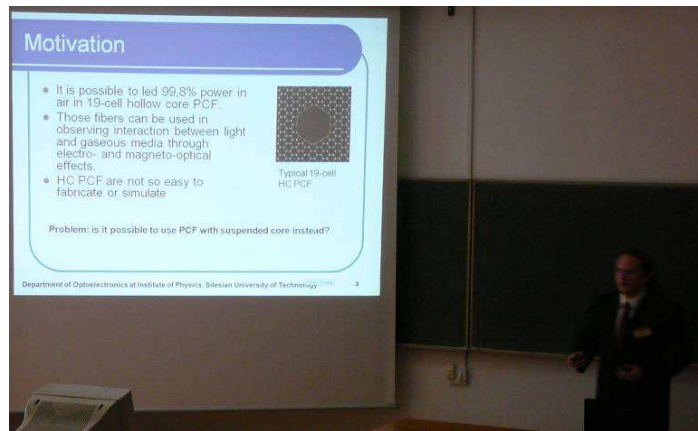


Fig. 4 Michal Grabka during a presentation at *Photonic Crystal Fibers with suspended core - numerical analysis* at The Photonic materials in applications sessions.



Fig. 5 Members from various chapters.



Fig. 6 After party in fort ruins in Torun .

**Exhibition Large Hadron Collider LHC -How it works?.**  
**28 march - 5 april 2009**  
**Silesian University of Technology Gliwice**

Members of SPIE chapter at silesian university of technology were helping with organization under (faculty of Mathematics and Physics) of exhibition taking part in education-conference centre of our university. Exhibition took place in Gliwice from 28th March till 5th of April 2009. Main purpose of this event was to introduce principle of operation of Large Hadron Collider building blocks in simple and entertaining way to propagate science mainly among secondary and high school students. Participation of chapter members in LHC exhibition:

Przemyslaw Struk  
Grzegorz Konieczny  
Dagmara Pundyk  
Michał Grabka  
Maciej Setkiewicz

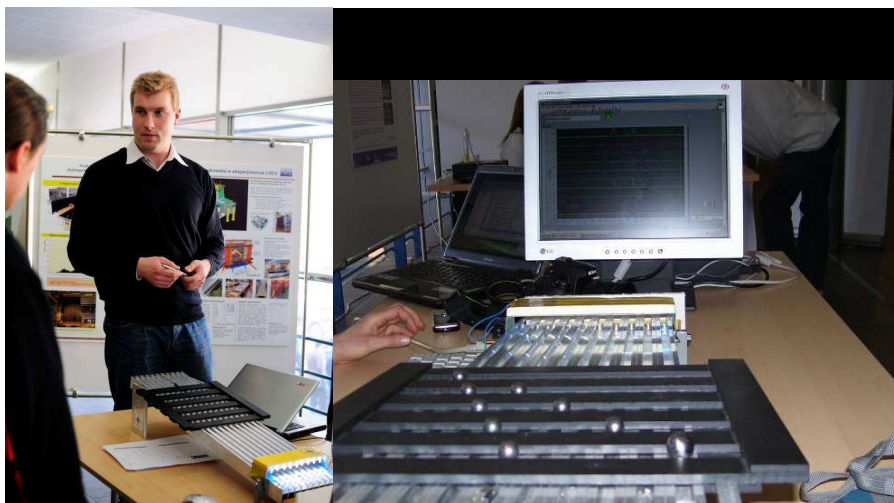


Fig. 7 Vice President Grzegorz Konieczny describes for guests “*Principle of Silicon Drift Detector SDD operation*”<sup>1</sup>.

<sup>1</sup> Photography taken by Alina Domanowska, Marcin Procek, Rafał Ucka, Justyna Juszczyk, Jakub Synowiec, Łukasz Romik, Kamil Barczak



Fig. 8 Michał Grabka giving a lecture for students on *“How are atoms and molecules build”*.<sup>2</sup>



Fig. 9 Dagmara Pundyk during a presentation about *Electrostatic phenomena*.<sup>2</sup>



Fig. 10 Mr Maciej Setkiewicz during prepare a new demonstration.<sup>2</sup>

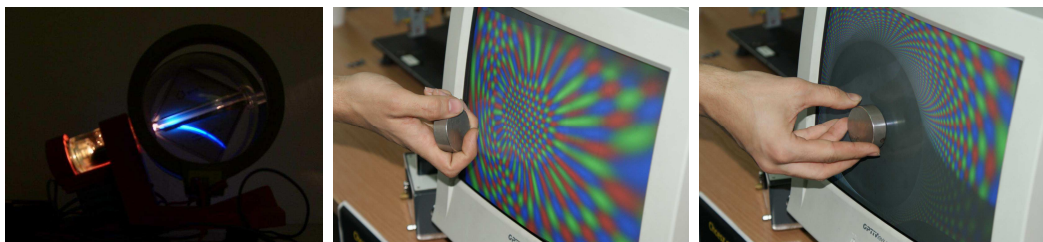


Fig. 11 Presentation about *magnetism phenomena*.<sup>2</sup>

<sup>2</sup> Photography taken by Alina Domanowska, Marcin Procek, Rafał Ucka, Justyna Juszczyk, Jakub Synowiec, Łukasz Romik, Kamil Barczak

## Optics + Photonics, 2-6 August 2009, San Diego, California, USA.

Participation of Chapter member Marcin Jesionek in Optics + Photonics conference 2-6 August 2009 in San Diego California thanks to Travel Grant award. This meeting was very beneficial because of exploring new cooperation possibilities with other chapters.



Fig. 12 Marcin Jesionek participating in Workshops.



Fig. 13 Mr. Marcin Jesionek and members from Polish chapters during Optics and Photonics conference.



Fig. 14 Members from various chapters during a sightseeing tour of San Diego.

## **Scheduled activities**

- Co organization: V International SPIE Student Chapters Meeting in Toruń.
- Educational initiatives demonstration of various optical phenomena for High School students in the laboratories of Department of Optoelectronics.
- Participation of the most prominent student of The Silesian University of Technology SPIE Chapter in the forthcoming SPIE Optics + Photonics conference in San Diego 2010.