



## **SILESIAN UNIVERSITY OF TECHNOLOGY SPIE STUDENT CHAPTER ANNUAL REPORT FOR 2008**

### **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 include Silesian University of Technology Ph.D. students from the Institute of Physics as well as students of Electronics and Telecommunication from the Faculty of Mathematics, Physics and the Faculty of Electric.

### **ADRESS**

Silesian University of Technology, Institute of Physics,  
Department of Optoelectronics  
Krzywoustego 2 str,  
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	eng Daniel Nabagło	M.Sc. student	paplok1@interia.pl	3189983

## LIST OF THE STUDENT CHAPTER MEMBERS CURRENTLY ACTIVE

1. Lukasz Drewniak
2. Michal Grabka
3. Grzegorz Konieczny
4. Sabina Marmol
5. Daniel Nabaglo
6. Dagmara Pundyk
7. Piotr Rozy
8. Maciej Setkiewicz
9. Przemyslaw Struk

## CHAPTER ACTIVITIES FOR 2008

### III International SPIE Student Chapters Meeting

Participation of the *III International SPIE Student Chapters Meeting held in Wrocław* in conjunction with Polish Student Chapters from Wrocław, Toruń and Student Chapters from Bucharest Romania.



Przemyslaw Struk giving a lecture on **“Design and numerical analyses of the human greater circulatory system and experimental researches of mechanical heart prosthesis POLTAH, POLVAD”** at The Life Science session.



Left: Daniel Nabaglo during a presentation at The Photonic and Bio photonic Materials and Applications session. Right: Piotr Rozy during a presentation at The Optical Techniques in Applications session.

## SCIENCE FESTIVAL SEPTEMBER 2008 - ABSTRACT

*The Sciences Festival* is a periodic event, that has been organized since 2001. This event has been organized "by the young for the young". It comes forward towards young people imminent desire to get to know and understand the world.

Science Festival aims to:

- to create a platform between culture, art and exact sciences,
- to familiarize high school students with the new scientific achievements,
- to create an opportunity for young people to develop their scientific abilities.

On this sciences festival has been organized inter alia:

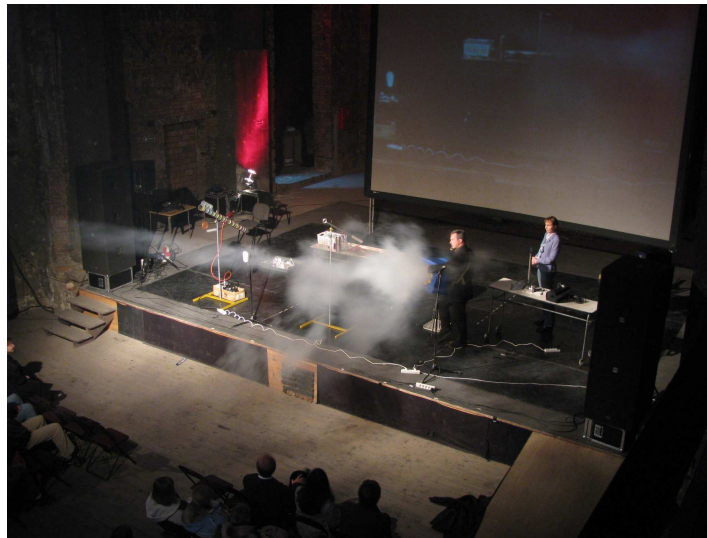
- lectures with professors from Silesian University of Technology,
- workshops and contests.

Science Festival Abstract 2008 was made at the Ruins of Old Theatre in Gliwice. The Old Theatre in Gliwice is very attractive space for exact sciences popularization among young people.

Chapter members participate in preparation and do the training activities of the Science Festival Abstract 2008 with the demonstrations of physical and optical experiments for younger students.



Sciences Abstract Festival 2008.



Presentation of physics phenomena in ruins of an old theatre in Gliwice.



Maciej Setkiewicz and Kamil Barczak during very impressive presentation of the physics phenomena for high school students.

### Lectures for high school students

Chapter members participate in organization of the lectures for high school student.

Aimed at the following of this lectures was:

- to propagated the knowledge of optoelectronics field,
- to present the "Electronics and Telecommunications " specialization on the University of Technology, namely "Optoelectronics and optic fiber technology".



President Przemyslaw Struk gives a lecture "Operational principles of LCD and CRT monitors"



High school student using microscope to observed a screen LCD and CRT monitor. During this lecture high school students had compared pixels between LCD and CRT monitor.

### [Optics + Photonics, 10-14 August, San Diego, California, USA.](#)

Participation of Chapter President Przemyslaw Struk in Optics + Photonics conference 8-15 August 2008 in San Diego California thanks to Travel Grant award. This meeting was very beneficial because it made meeting other chapter members possible. Latter contacts will prove extremely useful in organizing sciences events in the future.



President Przemyslaw Struk with others Chapters representatives from around the world during a workshop.



Members from various chapters during a sightseeing San Diego.

## **Scheduled activities**

- Co organization: IV International SPIE Student Chapters Meeting in Toruń.
- Educational initiatives:
  - demonstrations of physics and optoelectronics Festival Abstract 2009,
  - demonstration for High School students of various optical phenomena in the laboratories of Department of Optoelectronics.
- Organize student contest “Optoelectronics in the future” Purpose of it will be to design and fulfil a project with subsequent demonstration of its findings during a scientific conference for students.
- Participation of the most prominent student, of The Silesian University of Technology Chapter in the forthcoming SPIE Optics + Photonics conference in San Diego 2009.
- Designed a new chapter web site.