



## Summary

# **„The scientific-industrial seminar ”**

## ***On “Research conducted at the Institute of Control and Industrial Electronics in the power electronics, drives and industrial automation”***

Scientific and industrial seminar, organized by the Institute of Control and Industrial Electronics, Warsaw University of Technology under the project "New strategies for control of flying capacitors' power electronics converters for renewable energy, drives and traction" in cooperation with the Polish Section of the IEEE - Power Electronics Society PELS-035 and Industrial Electronics Society IES-013 Joint Chapter.

The main purpose of seminar was to take an interest of national companies in innovative solutions and results of research conducted at the Institute of Control and Industrial Electronics in the field of power electronics, drives and industrial automation, and establish cooperation.

During the seminar, created conditions for free discussion aimed to provide a common field of research interests, the definition of national development trends and electronics companies to adjust the scope of research to industrial needs.

The seminar was held on 17 June 2010 in Warsaw University of Technology - 32 participants in with 13 IEEE members.

During the academic session of the seminar the scope of research was presented, conducted at the Institute of Control and Industrial Electronics (ISEP), Warsaw University of Technology Faculty of Electrical Engineering. Industrial session devoted to the presentation of an industrial area of Polish power electronics companies, directing this session on the theme: "Production profile and trends of the national electronics companies."

About 10 am professor Lech M. Grzesiak opened the seminar. Professor Roman Barlik became a Chairman of the meeting. Presentations and discussions continued until 2pm. At 2 PM professor Lech M. Grzesiak led a discussion session summarizing the seminar. Conversations with representatives of industry continued during dinner.





Beginning of the seminar.

In the academic part was presented:

"Control strategies for flying capacitors power electronics converter" (M. Sc. Styński Sebastian, ISEP)





*"Power generation systems with variable speed and high-current sensor,"* (Ph.D. Eng. Grzegorz Iwański, ISEP)





*"Small wind turbine"* (Ph.D. Eng. Mariusz Malinowski, ZEP)



*"Drive systems and power system Personal Rapid Transit"* (Ph.D. Eng. Bartłomiej Kaminski, ZNE)

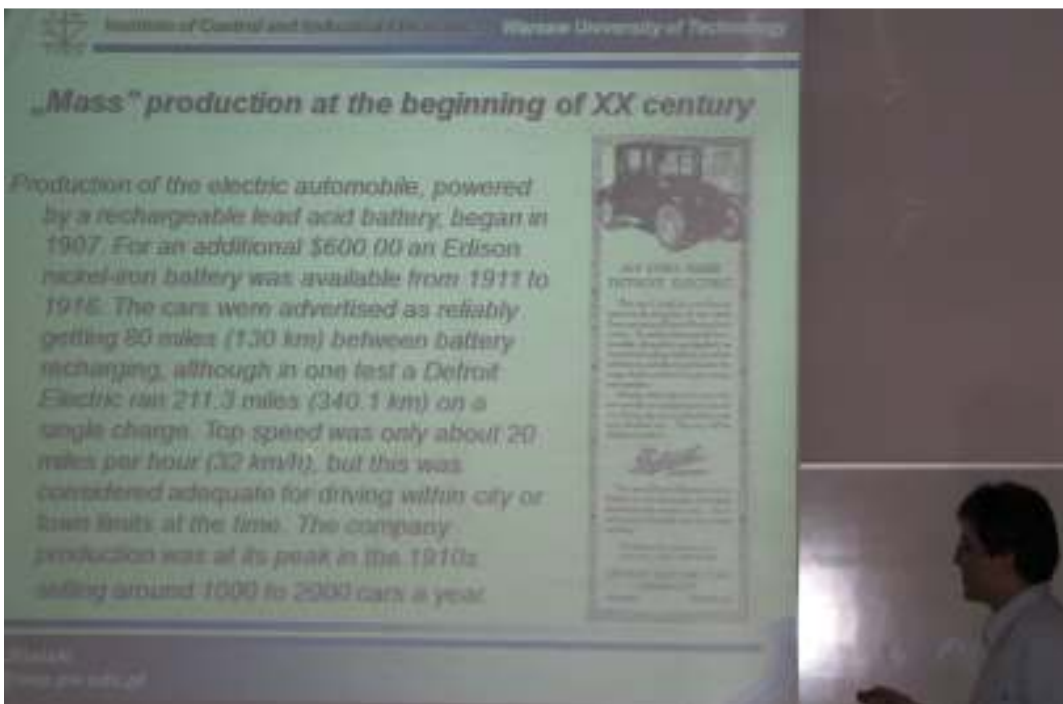




*"Control of the AC-DC-AC converter in renewable energy sources"* (Ph.D. Eng. Marek Jasinski, ZEP)



*"Propulsion systems of urban electric car - solution concepts"* (Ph.D. Eng. Ufnalski Bartholomew, ZNE)



## CHAPTER

POWER ELECTRONICS / INDUSTRIAL ELECTRONICS

PEL-035/IE-013

*"Construction and testing of a prototype power electronics sub-system with devices from silicon carbide"*  
(M. Sc. Grzejszczak Piotr, ZEP)



However, in the section of industry representatives presented their company profile:

DACPOL, Warsaw

Director of the MA. Eng. Adam Sitnik

MSc. Dariusz Gajda

Department of Technology and Business





**INNOWACYJNA  
GOSPODARKA**  
NARODOWA STRATEGIA SPÓJNOŚCI



Fundacja na rzecz Nauki Polskiej

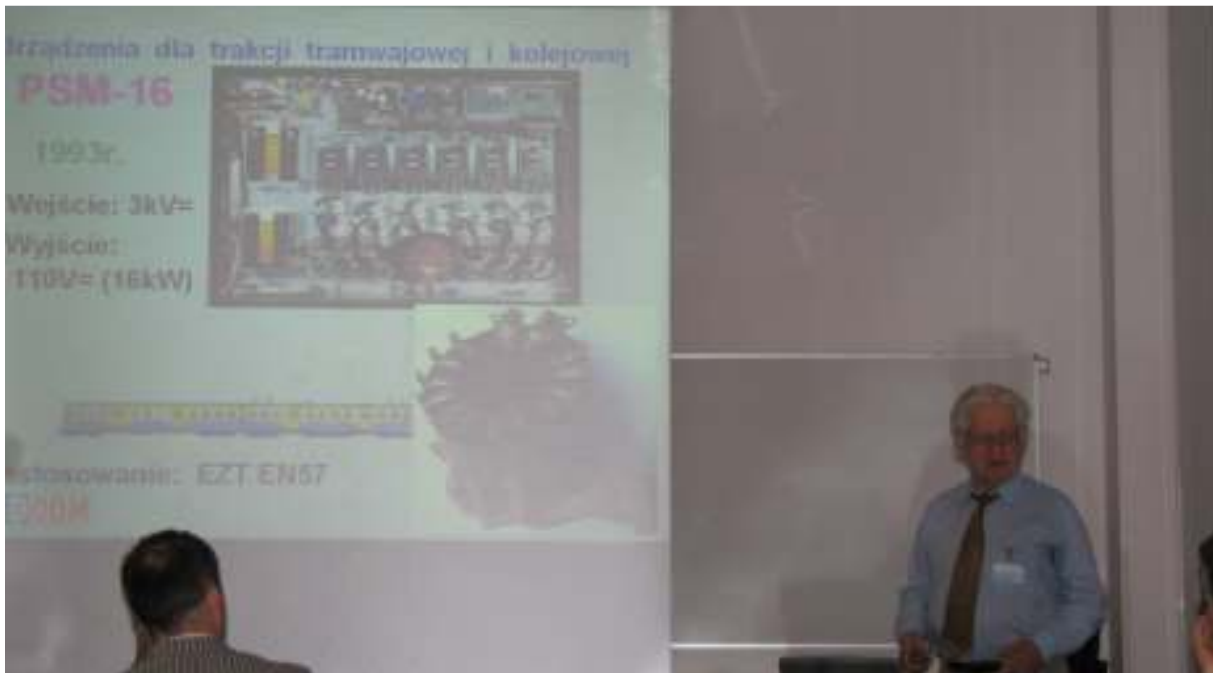


**UNIA EUROPEJSKA**  
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ROZWOJU REGIONALNEGO

MEDCOM, Warsaw

Ph.D. Eng. Andrew Baranecki

Director of Research and Development



# CHAPTER

**POWER ELECTRONICS / INDUSTRIAL ELECTRONICS**  
**PEL-035/IE-013**

ABB, Krakow

MSc. Michał Łazarczyk

Grid Infrastructure & Automation Group



TWERD Power Electronics, Torun

MSc. Rafał Jacukowicz

Engineer Research and Development



Huettinger, Warsaw

M. Sc. Wojciech Głazek

Division of Product Management

