

OPPONENT REPORT
for Professor's Inauguration

Candidate: dr hab. inż. Elzbieta SZYCHTA
Specialization: 5.2.11 Power electrical engineering
Department: Politechnika Radomska im. Kazimiera Pulaskego, Radom (PL)

Following the appointment of the Dean of Faculty of Electrical Engineering, University of Zilina, prof. Ing. Milan Dado, PhD. by letter dated 4.12. 2012, I was appointed as an opponent for inauguration process of dr. hab. inż. Elzbieta SZYCHTA for professor under the Edict of the Ministry of Education SR, Nr. 6/2005 - process of obtaining scientific - pedagogical degrees of associate professor and professor. To develop the opponent report, in compliance with mentioned edict, I have been provided with following documents contained in the appendix of appointment:

- thesis of inauguration lecture,
- resume of the candidate,
- criterion for appointment of the processor at Faculty of Electrical Engineering, University of Zilina and fulfilling of them,
- list of most important scientific works,
- list of pedagogical work and achieved results.

I can say that the above mentioned material is from the point of development of referee report complete. The report was prepared under the terms of mentioned edict and recommendations set in the appointment letter.

1 Scientific work and erudition of the candidate

Dr hab. inż. Elzbieta SZYCHTA, prof. nazv. currently acts as a teacher - Associated Professor at the Faculty of Electrical Engineering and Transportation, Politechnika Radomska of Kazimiera Pulaskego at Radom (PL), where she works as Dean of the Faculty and head of the Department of Electrical Engineering and Energy. She was habilitated at the Faculty of Electrical Engineering, University of Zilina, in 2007, in the specialization 5.2.11 Power electrical engineering, with habilitation thesis focused on area of multiresonant ZVS converters.

From the presented materials it is clear that the candidate significantly contributed to development of the knowledge in the field of power electronics and power electrical engineering, mainly in the area of design of resonant converters and their control and also in the field of railway transport and supporting systems, mainly in the area of devices for induction heating.

List of scientific and engineering projects documents breadth of scientific work and erudition of the candidate. The recognition by the international scientific community is supported by 64 citations, 22 of them are internationally published.

