

PROTOCOL OF EVALUATION OF SAS SCIENTIFIC ORGANIZATION

In regular evaluation of period 1.1.2007 – 31.12.2011

According to § I, section 15 and 16 of Principles of Regular Evaluation of SAS Organizations adopted under the regulation of § 10, section 5, letter d) Act No. 133/2002 Coll. on Slovak Academy of Sciences and approved by the SAS Assembly on 10. 10. 2011, the Evaluation Panel forSciences issues the Protocol with following evaluation and proposal for organization rating to evaluation category.

Name and address of evaluated organization	Institute of Electrical Engineering, Slovak Academy of Sciences, Dúbravská cesta 9 841 04 Bratislava
Date of site visit	October 3, 2012

ASSESSMENT OF PARTIAL INDICATORS

1. Research outputs

Comment:	Points:
The Institute of Electrical Engineering has achieved excellent results in the main research areas. The publications in well recognized scientific journals and five patents represent excellent research outputs. Transfer of the knowledge into world industry is very good. Research objectives for the next period focused on microelectronics study for HEMT HF power transistors and applied superconductivity are prospective.	3.7

2. Response to the scientific outputs

Comment:	Points:
Responses on published results are very good and are comparable with the world standard. Group of most cited Institute's members is wide. The results of top-cited authors from the organization should be the motivation for other employees of the Institute.	3.7

3. Research status of the organization within international and national context

Comment:	Points:
<p>The Institute has stable position within foreign research institutions and is a part of the main stream in the superconductivity research. Outcomes in the semiconductor production will be interesting for other institutions/producers. It will give Institute great potential for future international collaborations. Participation in EU research projects increase the international reputation of the Institute.</p> <p>The number of the invitations on keynote presentation is adequate.</p>	3.6

4. Projects structure, research grants and other external funding resources

Comment:	Points:
<p>Contribution to eight projects in the Framework Programmes, 14 EU projects with direct and other 14 EU projects without direct funding is excellent. Participation in 40 national research projects is very good. The main appreciation should be given on the funding from contracts with industrial partners.</p> <p>Institute is approaching the allowed share of external resources ratio to the institutional budget to the limit permitted by the law (SAS rules).</p>	3.7

5. Organization of PhD education and other pedagogical activities

Comment:	Points:
<p>Intellectual potential of institute's employees and infrastructure offer perfect conditions to become leading institution of the education of master students and PhD graduates.</p> <p>Looking for the closer links with Slovak universities will increase quality of their outcomes on both sides.</p>	3.5

6. Socio-economic outputs

Comment:	Points:
<p>The Institute has good cooperation with leading industrial partners. The Institute knowledge base in technology is actual and useful for knowledge transfer. This area is prospective for small countries because of wide variety of expected knowledge and products and suitability for small producers.</p>	3.2

7. Popularizations and outreach activities

Comment:	Points:
<p>Better promotion of the results of the Institute in the general public through the media would help to increase the attractiveness of the electrical engineering, material science in microelectronics and photonics.</p>	3.1

8. Background and management: infrastructure and personal development

Comment:	Points:
Infrastructure was improved thanks to participation in EU research and EU infrastructure projects. Together with a creative human potential it gives prospective for future development of the Institute of Electrical Engineering.	3.5

OVERALL EVALUATION

Comment on qualitative evaluation of global indicators as excellence, topicality and effectiveness of research, etc.:

The Institute achieved results on the level from very good to excellent especially in publication outputs and responses to published scientific work. It has a very good experience in collaboration with universities in Slovak Republic and abroad.

Researchers with excellent publication outcomes need to be motivation not only for of the employees of the Institute but equally to other technically oriented Institutes of SAS.

The structure of the Institute is open and there is a natural exchange of team leaders. It helps to maintain and improve the age structure of the Constitution.

Total percent of points obtained from the maximal number of points with weighting:

88.38 %

Proposal of organization rating:

Organization accredited in category A

Comments, objections to organization's activities in form of suggestions and specific tasks which must be performed by organization before next regular evaluation, etc.

1. Knowledge transfer into industrial sector has to be improved.
2. The Institute has to look for applications which match better the needs of industry in the country.
3. Special care should be given to use the new equipment effectively, both from the point of view of managing them personally and finding some new attractive and useful research problems.

Approved in Bratislava, October 5, 2012



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Chairman of Evaluation Panel