

**SIMULATED MARS ROVER MODELL COMPETITION.** SIPOS, Attila<sup>1</sup> VIZI, Pál Gábor<sup>2</sup>,  
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**Introduction:** We report about organization and management Simulated Mars Rover Competition [www.magyarokamarson.hu](http://www.magyarokamarson.hu) [1] (Hungarians on Mars). This is a competition of applied engineering sciences. We report also about collected experience and results at place of tournament Kiskunhalas, II. Rákóczi Ferenc High School, Hungary. Organizers of the competition are independent persons and organizations work together with High School and enthusiast sponsors. Founder of the competition is Mr. SIPOS, Attila electrical engineer.

**Discussion:**

**Ideas:** We do not get the knowledge together with life. To start young people to get more experience is one of the most important things nowadays.

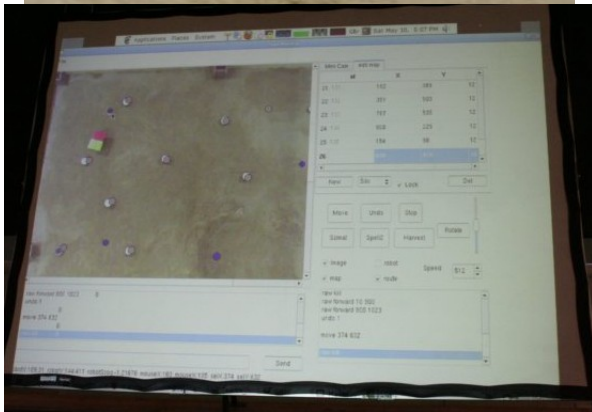
**Mission:** The actual goal of the competition can be achieved by building a device, a rover. The track is an 8x8 square meter sized field of sand or special material. 2006.: Competitors have to build a rover which starts from either corner of the field to reach the target crater at the opposite other corner and to collect debris or soil of the crater.



2007: Competitors have to search power cubes to collect energy across of field.



2008: Competitors have to collect fluid material.



The field of competition is hidden from direct visibility. Competitors must use video transmission and remote control and the navigation must be delayed by 15 seconds to simulate time of spread of the signal. The jury is mainly automatically works, only results are important, but there are experienced members of jury and one of them the author of this paper.

**Teams:** For the past four years there are several teams, high school and university departments have been trying to complete missions. Some of them were effective and students were successfully started or have finished Ph.D. study. Some of them: Budapest University of Technology and Economics (BME), Fac-

ulty of Informatics of University of Debrecen (UniDeb); Computer Science Department in Károly Eszterházy; Eötvös University (ELTE) Institute of Physics, Department of Material Physics. and other team member from Dept. Informatics; Pécs University - Dept. Informatics and G. Technology; Széchenyi István Technical High School, Székesfehérvár; Budapest Tech (BMF) Dept. Faculty of Electrical Engineering; Miklós Zrínyi National Defense University (ZMNE) Doctoral School of Military Sciences.

**Prices:** Prices are given by sponsors mainly cash and electronic or computer devices. The full price of the competition is about one million HUF is near 5000\$.

**Media:** You can find a lot of documentation and media across the internet first of all on the main website of magyarokamarson and for example the webpage of Hungarian Astronomical Society [2] and of course on youtube.com by author „siposattila” [3].

**Conclusion:** The evolution of simulated mars rover model competition has grown up and reached the goal to train new experts. They can connect to works of Universities. We are continuously working to organize and manage next competitions with new goals. The cooperation is also growing between organizers and high schools, universities and doctoral schools.

#### References:

- [1] SIPOS, Attila et al. (2006-) [www.magyarokamarson.hu](http://www.magyarokamarson.hu)  
 [2] VIZI, Pál Gábor (2009) [www.mcse.hu](http://www.mcse.hu)., *mediatar*  
 [3] SIPOS, Attila (2006-) [www.youtube.com](http://www.youtube.com) author “siposattila”