A journey into the world of electronics and robotics

Since January the inquisitive students of the Tiszaújváros Eötvös József Gimnázium, Szakközépiskola és Kollégium have been looking into an area of science which is not an integral part of their grammar school curriculum. At the end of April we spent a whole afternoon programming Lego robots at the I.T. Faculty of Miskolc University thanks to a competition we won organized by the National Talent Programme courtesy of The Ministry of Human Resources.

At the end of May we travelled a longer distance. We went on a two day trip to the Szent-Györgyi Institute in Szeged and got acquainted with the 'relics' of early day computing. We tried retro computers like the *Amiga* and the *Comodore*, then in the laboratory we caught and moved microscopic elements with a laser beam. Next day we travelled to Budapest to the Museum of Electronics and continued our series of physics lessons. The exhibition of Hungarian electronic products was new to us and so was the exhibition introducing the generation and distribution of electricity in Hungary. We got acquainted with the transformer and the self-excited generator and also with the principal of how to make and use a moving magnetic field. We were able to learn about the laws and principles of electrostatics and electrodynamics by carrying out exciting demonstrations using partly antique demonstration equipment. The two day outing was tiring, but very interesting and educational because we learned about Hungarian inventions, innovation and development in a practical way.

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