



Creativity and motivation in teaching maths, science and technology  
21 – 24 October 2010, Olomouc, Czech Republic  
<http://letsdoit.upol.cz>



## Friday Workshop Annotations

Friday, 22/10/2010

### **Team Building**

This workshop is dedicated to the benefits of the team work. Participants will try on the work as an individual and after as a part of the team. This way they will have a chance to compare the results achieved by one-man and the team work.

### **Video Analysis**

It will be shown how to analyse a video file in the term of physics during our workshop. The software Tracker 3.10 will be used for this reason. It will be enabled all participants to work at the computer workstation separately.

### **Data Logging**

The world around is full of data that we can measure and discover the relations and dependences between them. Data loggers enable us to measure in the classroom, on the street or in interesting natural places. The workshop should provide a brief introduction into this topic and several practical measurements in small groups with Vernier sensors.

### **Let's Do It: Creating Space and Time**

In the beginning the Universe was a tiny hot spot, dense in radiation. Then, it started to expand, cooling down in the process, which lead to the conversion of radiation into matter. How were the first chemical elements created? How did the Universe turn into what we know now? In the time we are together we intend to put everyone in an empty scenario where each one of us will play the role of one of the many particles created, answering to the arising questions, telling us the history of the Universe, our History.



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