



## Thirteenth regional "Youth research" competition in Künzelsau: 112 participants present 57 projects – 7 winners from Heilbronn/Franconia

Hauke Hannig  
Press Spokesperson / Assistant to  
the Chairman of the Board of  
Managing Directors  
ebm-papst Group  
Phone +49 7938-81-7105  
Fax: +49 7938 / 81-97105  
Mobile: +49 171 / 36 24 067  
Hauke.Hannig@de.ebmpapst.com  
[http://twitter.com/ebmpapst\\_news](http://twitter.com/ebmpapst_news)  
[www.ebmpapst.com](http://www.ebmpapst.com)

Mulfingen/Künzelsau, Germany, 2011-02-27

"The disciplines of Technology and Work Environment had outstanding representation at the thirteenth regional 'Youth research' competition," said Schwäbisch Hall native Silvia Böhler, the regional competition's head, in an absolutely positive assessment of the event. In the discipline of Technology, the jurors awarded three teams as regional winners, in the discipline of Work Environment two: "I am confident that there will also be a state winner among them," Böhler added. Bernd Ludwig, ebm-papst Training Manager and sponsor representative at Youth research, also expressed his content with the way things went and was delighted with having more than 1,000 visitors, who were impressed by the quality of the exhibits.

Page 1 of 3

With 57 projects and 112 participants, the regional competition (which ended Saturday) was one of the largest in Baden-Wuerttemberg. The nine regional winners will present their projects from 29 to 31 March at the statewide competition in Stuttgart's Haus der Wirtschaft.

The following participants have qualified as regional winners for the statewide competition:

- In the discipline of Technology, 17-year-old Alexander Hug, a student at the Schloss-Schule in Kirchberg, demonstrated possibilities for increasing the efficiency of solar modules. The jurors were impressed by his functional models and the evidence of effectiveness in his experiment.
- Felix Krause, 18, and Julia Sturm, 19, trainees at Ziehl-Abegg in Künzelsau, developed a safety door lighting system that distinguishes itself from existing products by its excellent design.
- The door lighting system earned first place in Technology, as did the multigenerational shopping trolley by 19-year-old Benno Baumann from the Berufliches Schulzentrum Schwäbisch Gmünd. The young experimenter engaged in market research, contacted shopping trolley manufacturers and enhanced a conventional shopping trolley with features like a seat for adults and a parking brake, making it ideal for seniors.
- In the discipline of Work Environment, Matthias Rumm, 19, and Marcus Zöllinger, 18, both trainees at ebm-papst Mulfingen, presented a safety net which makes forest work safer. The video showing



## Thirteenth regional "Youth research" competition in Künzelsau: 112 participants present 57 projects – 7 winners from Heilbronn/Franconia

Hauke Hannig  
Press Spokesperson / Assistant to  
the Chairman of the Board of  
Managing Directors  
ebm-papst Group  
Phone +49 7938-81-7105  
Fax: +49 7938 / 81-97105  
Mobile: +49 171 / 36 24 067  
Hauke.Hannig@de.ebmpapst.com  
[http://twitter.com/ebmpapst\\_news](http://twitter.com/ebmpapst_news)  
[www.ebmpapst.com](http://www.ebmpapst.com)

Page 2 of 3

- a series of tests and the professional, ready-to-produce design impressed the jury.
- Also awarded as regional winners in Work Environment were Michael Kazmeier, 20, Robert Vorbach, 20, and Manuel Besenfelder, 18, from Bürkert in Ingelfingen. To prevent machine hoses from flinging wildly through the air, they invented a complex safety shut-off system, truly admired by the jury.
  - The regional winner in physics, 19-year-old Anastasia Dietrich from Igersheim, a student at the Deutschorden-Gymnasium (college preparatory school) in Bad Mergentheim, discovered by means of a complicated test setup that fluids do very well at braking the impact of a body. She got her idea from nature: An unborn baby is optimally protected from impacts in the amniotic fluid.
  - The jurors in the field of Mathematics/Computer Science were also "enthused" by the work of Kim Peter Wabersich, 20, from the Stauferklinik in Mutlangen and Gergor Daiß, 20, from the Stadtwerke Schwäbisch Hall depot. They optimised an injection moulding machine with an innovative combination of two methods: neural networks and genetic algorithms.
  - The best participant in the discipline of Chemistry, 16-year-old Elisabeth Schäfer from Kupferzell, produced the natural substance Meridianin A, which tunicates on the seabed use to defend against their enemies, in an innovative way and experimented with it at the German Cancer Research Centre in Heidelberg. In doing so, this student at the Ganerben-Gymnasium in Künzelsau discovered that Meridianin A kills off cancer cells, but more effective substances already exist.
  - What teachers and parents have already been preaching for a long time has now been scientifically and soundly proven by three students at the Mönchsee-Gymnasium in Heilbronn. People who do not get enough sleep are far less focused. In addition, memory suffers. Based on this, Stefanie Müller, 16, Stefanie Eidam, 17, and Annika Schilling, 17, concluded that school should not begin until 9 o'clock.

At "Students experiment", the Deutsche Schule Mailand (German School in Milan) achieved its best result to date by providing two of the five regional winners:



## Thirteenth regional "Youth research" competition in Künzelsau: 112 participants present 57 projects – 7 winners from Heilbronn/Franconia

- In Chemistry, Milan students Sara Pederielli, 13, and Nils Hellerhoff, 14, discovered how to protect our teeth during the day optimally without having to brush them during this time.
- Fellow Milan students Matthias Denkwitz, 13, Christian Moog, 12, and Luca Lundgren, 13, got jurors excited with their experiment "Doing laundry like on Friday" (Work Environment discipline). They showed how simple materials, such as those one might find on a remote island, can be used to clean clothing by hand.
- The Biology winner Jasmin Thierschmidt, 14, from the Robert-Mayer-Gymnasium in Heilbronn convinced the jury with her search for the "sixth sense." She experimented to get to the bottom of whether or not people can actually sense when they are being looked at from behind.
- Siblings Felicitas and Magnus Bihlmeier, aged 12 and 10 respectively, from the Franziskus-Gymnasium in Schwäbisch Gmünd dealt with the formation and shape of rock crystals in an exemplary manner.
- Daniel Heuberg, 14, from the Pestalozzi-Realschule (secondary school) in Mosbach programmed his own microcontroller for an individual LED display and developed and produced the boards.

The five regional winner teams will present their projects on 7 and 8 April at the statewide competition at the Volksbankmesse exhibit hall in Balingen.

### **About ebm-papst**

The ebm-papst Group is the world's leading manufacturer of fans and motors and is a pacesetter for the ultra-efficient EC technology. For the current fiscal year 2010/11, the company is expecting a turnover of 1.2 billion EUR. ebm-papst employs approximately 11,000 employees worldwide at 17 production facilities (including those in Germany, China, USA) and 57 sales locations. Products of the global market leader are represented in many industries, including ventilation, air-conditioning and refrigeration technology, household appliances, heating engineering, in IT/telecommunications applications, as well as those in automotive and commercial vehicle engineering.

Hauke Hannig  
Press Spokesperson / Assistant to  
the Chairman of the Board of  
Managing Directors  
ebm-papst Group  
Phone +49 7938-81-7105  
Fax: +49 7938 / 81-97105  
Mobile: +49 171 / 36 24 067  
Hauke.Hannig@de.ebmpapst.com  
[http://twitter.com/ebmpapst\\_news](http://twitter.com/ebmpapst_news)  
[www.ebmpapst.com](http://www.ebmpapst.com)

Page 3 of 3