

# *Bretislav Friedrich*

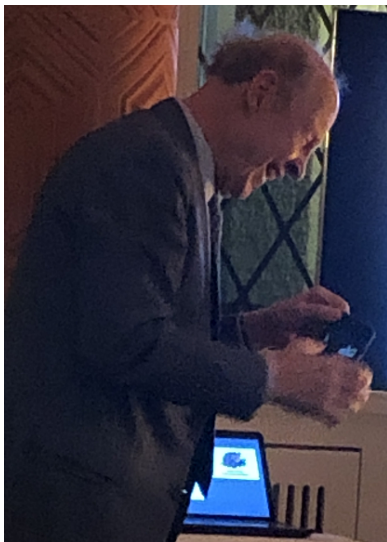
The day after receiving his Senior Professorship

Breakfast with Dudley Herschbach and Georgene



You got it!

April 12<sup>th</sup> 2019





But Bretislav had to earn his Senior Professorship by passing a stringent examination, in which he had to demonstrate his understanding of five experiments. Bretislav's children were allowed to help him to make observation and to solve tricky problems. Dudley was the chairman (a very clever and indulgent one) and Senior Professor Ludger Wöste an impressive and determined examiner.

The **first** experiment was a wooden contraption with a **mechanical** vibration-rotation-coupling.

The **second** one was about electric coupling, a can with a battery and a wire loop turning on top.



*Also tested by the audience,  
here by Long Cai.*



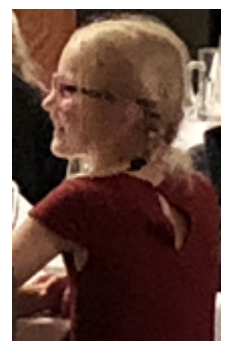
Fascinating also for Bretislav's and Christine's children Juliane, Christian, and Jitka – as well as for their cousins Veronika and Johannes.

The **third** experiment made use of **optical** energy – a thermal mill.



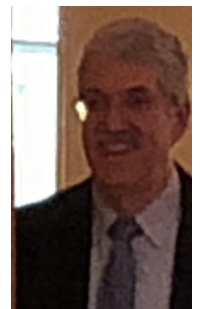


Mysterious **fourth** experiment:  
Chemical energy.





Physicists attracted by the rotating flame, here John Doyle





The **fifth** and last experiment.



Mikhail Lemeshko, fixing a broom with a candle.





They got it, the candle is extinguished and the smoke rings pass the broom undisturbed, like matter waves. And Bretislav won the gown of Senior Professor.