FROM TEACHERS FOR TEACHERS

DIVERSITY IN STEM EDUCATION

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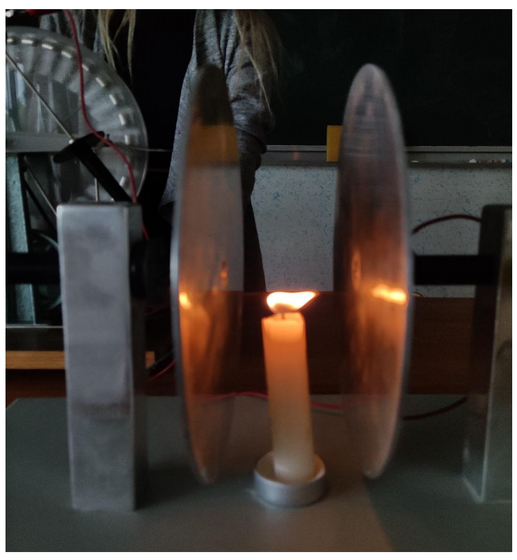
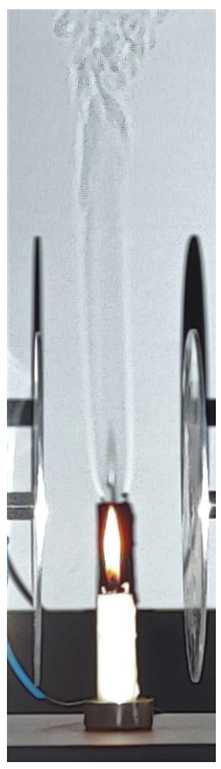
A candle and its (extra)ordinary flame

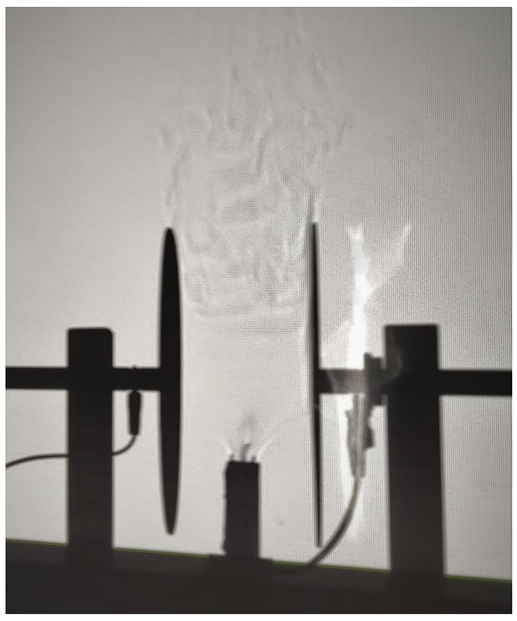
Interesting ideas for experiments

- How does the candle flame behave in a uniform electric field?
  The flame assumes the shape of so-called **"Napoleon's hat"**



- What is the **convection current** in air caused by a hot candle flame? The observation will be made possible by the **so-called shadow projection**.





- The candle flame creates **ionization in the air.** We will see that the convection current in a uniform electric field splits into **two streams!**

- What is the difference between the **spectrums of light** emitted by candles depending on their chemical composition ?

These are just some examples of interesting experiments.

Conclusion: Interesting experiments with a candle and its (extra)ordinary flame will surprise students and make lessons in thermodynamics, mechanics, optics, electrostatics, electricity and magnetism more attractive!

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