

CLASSROOM SCIENCE COMPETITION

PARTICIPATE IN A SCIENCE
DEMONSTRATION COMPETITION

BY EUSMI AND HORIZON 2020

AIMING TO ENHANCE EUROPEAN COMPETITIVENESS IN SOFT MATTER RESEARCH AND INNOVATION, THE PAN-EUROPEAN PROJECT EUSMI INVITES TEACHERS TO PARTICIPATE IN A SCIENCE DEMONSTRATION COMPETITION TOGETHER WITH THEIR SCIENCE CLASSES.

Soft matter, as opposed to solid matter, is a class of materials which is often very responsive to mechanical forces and/or temperature changes. They are mostly built from mixtures of polymers, colloids or surfactants with suitable solvents. EUSMI's ambitious networking program aims to efficiently communicate new soft matter research findings to the community. Educating the next generation of scientists and developers requires engaged teachers able to formulate creative and imaginative ways of effectively explaining and illustrating the phenomena in chemistry and physics that this research and development is based upon.

We hope to engage teachers (of students aged 13-18) who can share their favourite methods of demonstrating the chemistry and physical properties that are so important for our field. Via these demonstrations, our ambition is that teachers all over Europe will inspire each other to use and further improve upon these educational materials for the benefit of all our students and therefore the future of the field. **For the three best contributions there are the following prizes for the respective class to win:**
1st place: 1.000 €, 2nd place: 500 €, 3rd place: 250 €.

Participants have to contribute a video of their demonstration, preferably made in a classroom setting, and with a written protocol of how it is performed. The best videos will be post-produced by EUSMI partner WVK communications.

PLEASE TURN THE PAGE TO SEE HOW TO PARTICIPATE ...

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HOW TO PARTICIPATE

<p style="text-align: center; font-size: 24px; font-weight: bold;">1</p> <p style="text-align: center; font-weight: bold;">REGISTER</p> <p style="text-align: center; background-color: yellow; color: black; padding: 2px; font-weight: bold; margin: 5px 0;">HERE</p> <p>... to confirm your interest in participating.</p>	<p style="text-align: center; font-size: 24px; font-weight: bold;">2</p> <p style="text-align: center; font-weight: bold;">FILMING</p> <p>... your demonstration using a smartphone camera is perfectly fine! You can speak the language of your choice – we will translate and add subtitles to the best contributions. The format should be MP4/MPEG in 1920 x1080 (1080p) in landscape mode. The demonstration can be maximum 15 min, shorter is preferred.</p>	<p style="text-align: center; font-size: 24px; font-weight: bold;">3</p> <p style="text-align: center; font-weight: bold;">WRITE</p> <p>... a protocol for the demonstration in English. It should be written for other teachers to use. It must include the background of the demonstration, what it is intended to illustrate.</p>	<p style="text-align: center; font-size: 24px; font-weight: bold;">4</p> <p style="text-align: center; font-weight: bold;">SUBMIT</p> <p>... the video and the protocol through</p> <p style="text-align: center; background-color: yellow; color: black; padding: 2px; font-weight: bold; margin: 5px 0;">https://eusmi.wetransfer.com</p> <p style="text-align: center;">no later than July, 31th 2020!</p>
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The following examples of scientific phenomena and molecular systems are of importance for us who work as researchers in the area. It is not an extensive list but can serve as inspiration for the field of soft matter. The Wikipedia links are provided as guidance.

- [Emulsions, suspensions and aerosols Gels](#)
- [Superhydrophobicity](#)
- [Viscosity and the classical ketchup effect](#)
- [Surface tension](#)
- [Liquid Crystallinity \(as in LCDs and more\)](#)
- [Contact angle](#)
- [Polymers](#)
- [Surfactants](#)
- [Colloids](#)
- [Superabsorber](#)

A jury consisting of world-famous scientists and communication experts will evaluate the contributions under the following criteria: 30% didactic quality, 30% level of student participation, 30% creativity and uniqueness, 10% technical implementation.

If you have any questions, please do not hesitate to contact the EUSMI Competition Team via email: anna@crcom.se

(Anna Stenstam is part of the Executive Committee of EUSMI and CEO of the Swedish partner organization CR Competence).

*By participating in the EUSMI Competition, the participants agree that EUSMI can share their videos on YouTube or similar platforms. The videos might also be selected for professional post-production.

The competition and award are made possible through financial support from the European Union's Horizon 2020 Research and Innovation program.