

Climate change and Social Media

Climate change and Science Education

The increasing emission of climate-active gases triggered by humans has led to a change in the composition of our earth's atmosphere, which is resulting in a steady warming. This can be seen, for example, in the „warming stripes“ that trace the development of the world's climate since 1850.



Foto: Ed Hawkins, <https://showyourstripes.info>

While the scientific fundamentals seem relatively clear and are backed by a broad scientific consensus, this is not always perceived accordingly in social discourse. Social media in particular play a role in today's media landscape.

Social Media and Science Education

Social media describe a collection of diverse platforms that generally allow people to create profiles and connect with others, which, depending on the platform, can be done through videos (YouTube), photos (Instagram), direct messaging (WhatsApp, Telegram), or a mix of these forms (Facebook).

However, the possibility of exchange can lead to problems such as echo chambers, filter bubbles or fake news, especially in the case of scientific topics. It is questionable to what extent these phenomena can have an impact on (extra)curricular learning.

The project

In order to meet the challenges described above, an integrated approach is necessary in which characteristic problems of social media such as echo chambers and fake news are explicitly addressed and corresponding competencies are promoted. For this reason, the SoMeCliCS project is examining social media usage, literacies, and interventions within three subprojects. Within this approach we are supported by researchers from the L3S, allowing us to apply innovative techniques from computer science to cope with the diverse and large datasets

Venue

Königlicher Pferdestall
Leibniz Universität Hannover
Appellstraße 7
30167 Hannover



Foto: Leibniz Universität Hannover

Project lead and contact information

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Funding

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**Niedersächsisches Ministerium
für Wissenschaft und Kultur**



Social media and climate change

An interdisciplinary perspective
from Science Education

SoMeCliCS-Kick-Off
10.03.2022 – 11.03.2022
www.someclics.com

SoMeCliCS

Program

The program of the Kick-Off Symposium is spread over two days. The first day (Thursday) will focus on the external impact of the project. After a short greeting, the project management (Dr. Alexander Büssing) will open both the symposium and the project. Afterwards, we are looking forward to the keynote by Prof. Richard Rogers (University of Amsterdam), describing computer-based research approaches to the topic of social media in the context of climate change.

This event day offers:

- An overview of the project
- An insight into current research on social media in the context of climate change.

Thursday (10.03.2022): Opening SoMeCliCS

17:00 Greeting words

Prof. Dr. Andreas Nehring

Spokesperson of the research initiative Digitale Bildung at Leibniz University Hannover

17:10 Perspectives on social media and science education: About SoMeCliCS

Dr. Alexander Büssing

*Institute for Science Education
Leibniz University Hannover*

17:40 Where is the urgency in the climate change discourse?

Prof. Richard Rogers

University of Amsterdam

18:40 Evening reception

Reception and poster exhibition

The second day of the symposium is primarily aimed at internal and external project participants. In the morning, this refers to the project participants, i.e. persons who have contributed a letter of intent. In the afternoon, the focus will be on interested teachers. The aim is to clarify the possibilities for cooperation and possible needs on the part of the participating schools (see also box on the right).

This event day offers:

- Opportunity for feedback from internal and external project stakeholders
- Information for teachers on cooperation in the project

Friday (11.03.2022): Working on SoMeCliCS

09:00 Welcoming words

09:15 Working session I: View on the project

Brief inputs from external individuals on the project and/or the linking of social media and context climate change

10:15 Coffee break

10:45 Working session II: World café

A Exchange and thoughts on the four subprojects as a world café

12:30 Lunch break

Start of teacher training session

14:00 Bildung für Klimaschutz

Prof. Dr. Dietmar Höttecke

Didaktik der Physik, University of Hamburg

15:00 Fake News oder Lernobjekt? Der Klimawandel in sozialen Medien für das Lernen nutzen

Dr. Alexander Büssing

*Institute for Science Education
Leibniz University Hannover*

15:30 Teachers' Forum

Open exchange about possibilities, needs and challenges from a practical point of view

16:00 End of the symposium

Cooperation and participation

Researchers and project participants

Researchers from an interdisciplinary team are working together on the project. In addition to the core team, various individuals have pledged their collaboration on the project in a letter of intent (LOI). These will be given the opportunity to participate on Friday morning.

Participation is open for contributions, and interested individuals from research and practice are asked to prepare their input on the use, necessary skills, or possible interventions on social media in science education.

If you would like to actively participate in the meeting, please contact **Dr. Alexander Büssing (buessing@idn.uni-hannover.de)**.

Teachers

The project wants to investigate not only the use and required competencies, but also the promotion of the competencies in school practice. We are therefore looking for teachers who are willing to support the project in the further course.

At the kick-off, teachers can find out more about the project and the use of social media. In addition, we are planning a teachers' forum in which the previously heard contents can be discussed critically and further cooperation can be discussed.

Further information as well as links for participation can also be found on the project's homepage:

www.someclics.com



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