

Korea-EU Horizon Europe Researchers Networking Forum on Energy & Advanced Mobility

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**Chairman
Head of Department
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**MINT-Campus Alte Schmelz e.V.
Schülerforschungs- und -technikzentrum;
German-Korean Society**

**Non-formal and Further
STEM education and
Science Dissemination**



1. Short Introduction of our Organization

MINT-Campus Alte Schmelz e.V.: non-for-profit association / NGO
privately organized, financed by donations and third-party projects

Youngsters' Research and Technology Center (**Schülerforschungs- und -technikzentrum, SFTZ**):

- STEM promotion of pupils / school students (broad-based promotion)
 - STEM promotion of high performers among the school students
 - STEM vocational training
 - STEM further education for adults
- } 3600 „clients“ p.a.



2a. Expertise of institution



Biology

- Ecological biology (biodiversity)
- Molecular Ecology / PCR
- Bioeconomy / Biotechnology



Chemistry

- Inorganic Chemistry/Metal Chemistry/Green Steel
- Organic Chemistry / Food Chemistry
- Physical Chemistry / Electrochemistry / Hydrogen

STEM Sustainability Education



2b. Personal Expertise

Before retirement: Chair of Physical Chemistry at Saarland University

Research fields: Electrochemistry (dealing with Functional Materials of Electrochemistry-based Energy Engineering) and Sustainable Chemistry.

Chemistry-specific didactics: STEM Education for Sustainable Development, down-scaling of high-level research chemistry via Schülerlabors to school level in form of simple experiments,



3. Our Project Idea

In one of the fields of our expertise (previous chart)

we want to contribute to a new EU-Project

by providing dissemination in form of school experiments, i.e., experiments downscaled

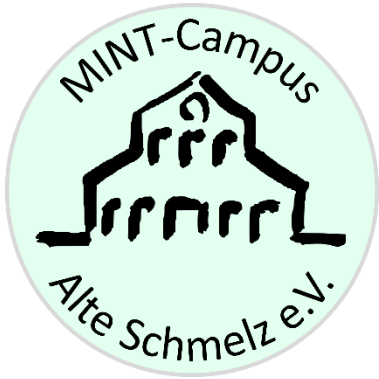
- from the research level of high-physics, high chemistry, ..
to general understandability
- from the fancy high-tech equipment of research institutes
to technical possibilities of school
- from the huge budget of research institutes
to financial possibilities of schools



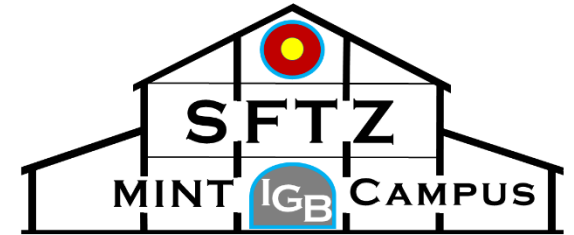
4. Profile You are Seeking and Why

**Based on our expertise in the fields of Energy-relevant Electrochemistry
and Hydrogen / Green Steel,
we would be happy to contribute to the dissemination of EU-Project results**

5. Contact Details



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