
INNOVATION OF POLYMER NANOCOMPOSITE MATERIALS FOR ELECTRICAL ENGINEERING

PROJECT ID: 22310108
STRATEGIC GRANT

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• **Visegrad Fund**
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19.9.2023

PARTNERS

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INFORMATION ABOUT PROJECT



- The project aims to address the current issues in polymer materials by focusing on ecological concerns, material properties, and theoretical analysis;
- Lectures and educational activities to enhance students' knowledge and improve the European standing in polymer material development;
- Collaborating with partner universities, utilizing innovative procedures and equipment, and improving existing electro-insulation materials;
- Advance research, promote knowledge exchange, and boost competitiveness in Central Europe;
- Strengthening mutual cooperation between the universities involved in the project.

IMPLEMENTATION PERIOD: 03/07/2023–31/07/2025

Description of the phase of the project

- 07 - 08/2023 *Creation of project webpage and office IT devices*
- 09/2023 *The first online meeting*
- 16 – 20.10/2023 *Dielectric spectroscopy of bio-based nanocomposites dielectric materials* (Event–Public), **Budapest, HU**
- 02 – 04/2024 *"Green" polymer additives and possibilities of efficient use of epoxy waste* (Event–Public), **Zilina, SK**
- 03 – 05.09/2024 *Presentation of partial goals of the project and their practice benefit for public sector. Meeting in Diagnostika 24 conference* (Event–Public), **Pilsen, CZ** (https://diagnostika.zcu.cz/documents/2024/flyer_web.pdf)
- 01 – 05/2025 *Methods of diagnostic of power transformers and insulation materials* (Event–Public), **Lublin, PL**

TARGED GROUP OF EACH INDIVIDUAL EVENTS

Partner institutions

- All institutions from the V4 countries that are involved in the project will promote this project within own university.
- Promotion will take place by creating a project website, which will contain basic information about the project and our next activities.
- The done lectures will also be published in digital form on the project's website.
- Researchers from partner institutions (with a focusing on the electro - energy sector).
- Selected young scientists, professional assistants, postdoctoral.

Students

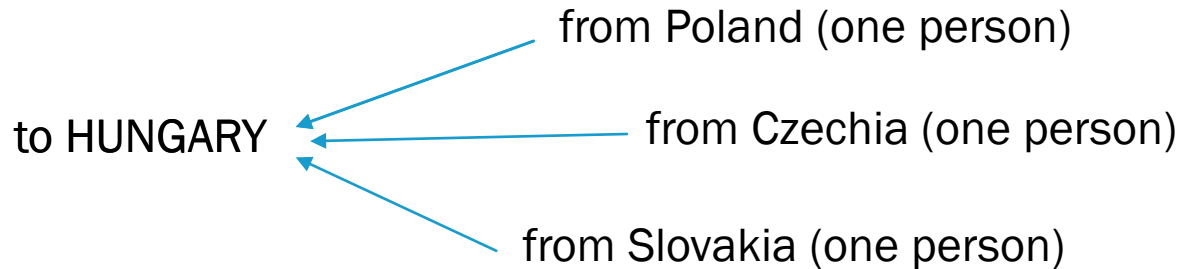
- Recommended participation for students in lectures (in the related topics and study program): Electrotechnology, Energy, Power energy, High Voltage and related, Environmental.
- Student of Ph.D. study programs: Electrotechnology and Materials.

Potential industrial partners

- Direct invitation of potential partners of specialized electrotechnical industry like cable manufacturers, insulation manufacturers, transformer companies etc.

SCHEME OF INDIVIDUAL EVENTS

- 16 – 20.10/2023 *Dielectric spectroscopy of bio-based nanocomposites dielectric materials* (Event–Public), **Budapest, HU**



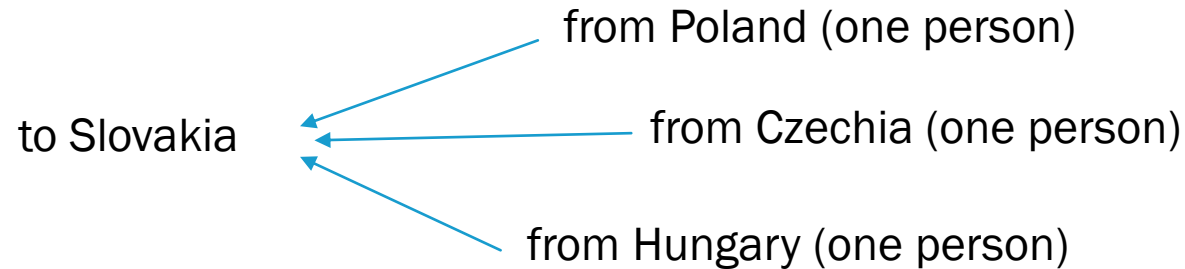
Josef and me, at this time (19 - 20.10/2023) we will also be at the CANDO EPE conference in Hungary, Budapest.

The specific date, time and room of this event will be determined by Adam

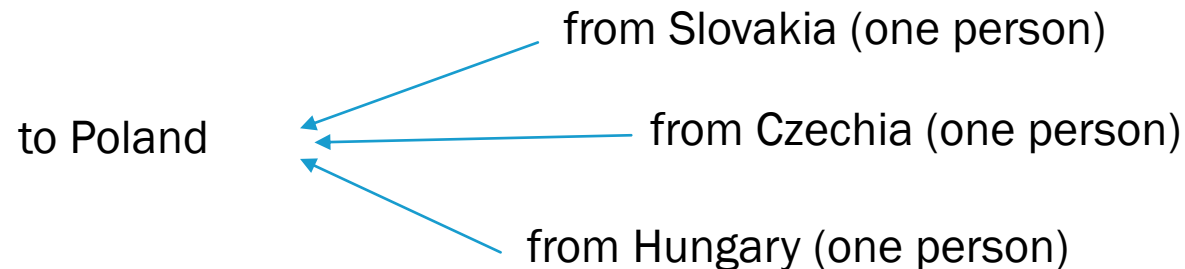
- Who from a given country will participate in a event depends on mutual agreement;
- Every seminar (lecture) should also be broadcast online;
- The time duration of one lecture should be 20-30 min., TOTAL time for three lectures: no longer than 90 min.
- The individual project partners will promote the event within their own university (poster or website).

SCHEME OF INDIVIDUAL EVENTS

- 02 – 04/2024 *"Green" polymer additives and possibilities of efficient use of epoxy waste* (Event–Public), **Zilina, SK**



- 01 – 05/2025 *Methods of diagnostic of power transformers and insulation materials* (Event–Public), **Lublin, PL**

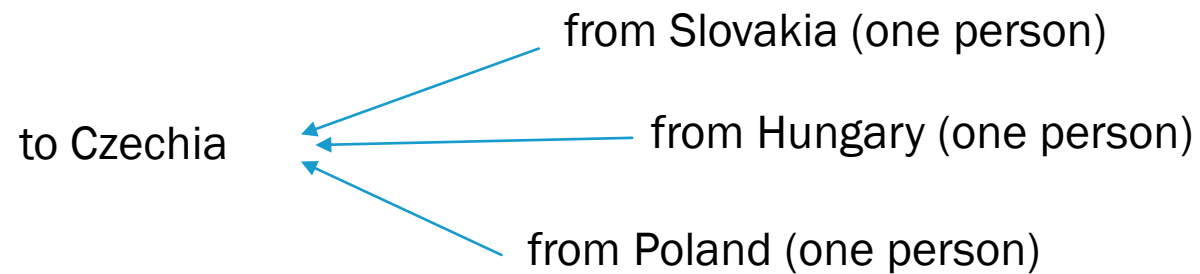


SCHEME OF INDIVIDUAL EVENTS

03 – 05.09/2024 *Presentation of partial goals of the project and their practice benefit for public sector.*
Meeting in Diagnostika 24 conference (Event–Public), **Pilsen, CZ**

WEB site of CDEE conference: <https://diagnostika.zcu.cz/>

For this event, fees are reserved for the publication of two commonly conference papers



There will also be space for 3 lectures for individual project partners at this event.

BUDGET CATEGORY

- The fees for expert (speaker) for each lecture is **400 € / person**;
- From the project budget are financed:
 - full board catering;
 - travel costs (use of public transport);
 - accommodation for the speaker (1 night at the lecture venue).

TIME FOR SOME QUESTIONS

Thank you for your attention