

CALL FOR CONTRIBUTIONS

GIREP Webinar 2021

Call for contributions - oral presentations

Dear colleagues,

You are invited to participate in the Second GIREP Webinar on

‘PHYSICS TEACHER EDUCATION – WHAT MATTERS?’ 10-12 November 2021 Zoom platform

organized in cooperation with the University of Malta, Faculty of Education, Department of Mathematics and Science Education and Faculty of Science, Department of Physics. EPS-PED and MPTL will cooperate in the activities. Due to the COVID-19 pandemic, it has been decided that it will be in web modality.

The main foci of this Webinar will be Initial Teacher Education [ITE] and Teachers’ Continuous Professional Development [CPD], to improve the discussions held in the first GIREP Webinar on the same topic and to prepare position papers on the following specific WG topics.

- **WG1: Developing teacher TPACK in physics education**

Leaders: Peter Demkanin, Ton Ellermeijer, Lars-Jochen Thoms

- **WG2: Physics Experiments and lab work in teacher education**

Leaders: Ian Bearden, David Sands

- **WG3: Developing and evaluating teacher PCK in Quantum Mechanics (tools and approaches)**

Leaders: Sergej Faletic, Marisa Michelini, Gesche Pospiech

- **WG 4 Formal, non-formal and informal aspects of physics education at primary level**

Leaders: M. Čepič, M. Giliberti and D. Sokolowska

- **WG5: Pre-service physics teacher education at all levels**

Leaders: Digna Couso, Claudio Fazio, Zuzana Jeskova

- **WG6: In-service Physics teacher professional learning for second and higher level education**

Leaders: Eilish McLoughlin, Wim Peeters, Gerald Feldman

- **WG7: Preparing Teachers to Teach Energy Concepts**

Leaders: Jesper Haglund, Paula Heron, Knut Neumann, Alberto Stefanel

The format of the webinar will be the following: some keynote speeches in plenary will introduce the main topics and submitted contributions by participants will be included in the WGs, which will consist of in-depth discussions in small groups of researchers and practitioners, led by WG leaders. Each WG will consist of discussions which will be developed in the following steps:

S1 – 10/11/21 time 14:30-16:30 - parallel sessions for panels dedicated to the presentations of the contributes offered by participants in each WG in two parts: A) Short presentations of 10 minutes for accepted contributions (that participants have already read in website) and B) flash presentations of 5 minutes for the contributions less relevant. No discussion in that phase, only urgent clarifications.

S2 – 11/11/21 time 14:30-17:00 - parallel sessions to discuss the list of aspects that responsables of the WG consider important for the topics of each WG and to be focused for the position paper. During S2 the responsables of each WG organize and manage the discussion and at the end of the session summarize the main issue.

S3 – 12/11/21 time 14:00-15:15 – parallel sessions to discuss and agreed the proposed issue by responsables for the WG position paper, as a result of the discussion held. In the successive session at 15:15 the WG responsables will summarize in plenary the WG discussion and results in 15 minutes. The final position paper will be written by responsables after the Malta Webinar.

Submission of your contribution proceeds in two steps:

1. The first step is to submit extended abstract ranging from 400 to 600 words before the webinar.
2. The second step is to submit a full paper for IOP proceedings or Springer book of selected papers after the webinar, according with the result of the peer- review double blind process.

Regarding Step 1 above kindly note

All GIREP Malta 2021 Webinar participants need to submit their abstract as word document files.
Deadline for submission of the abstract of your proposal is 30th September 2021, according with the template available on the website.

The abstract needs to be submitted in two word document files:

File 1 - A word file having as filename - 'Title of the paper [1]' and should include all the authors

File 2 - A word file having as filename - 'Title of the paper [2]' and should be anonymous

Furthermore, in their email, all the participants should indicate the workgroup they plan to participate in. This information should be emailed to girepmalta@um.edu.mt

Every submitted abstract will be reviewed before 22nd October 2021 and the abstract book will be published in the GIREP and webinar website.

Regarding Step 2 above kindly note

All full-text papers, which would have been presented at GIREP Webinar 2021, will be double reviewed after the webinar and published as follows.

- The qualified papers will be published in the IOP Journal of Physics Conference Series (JPCS). JPCS occurs electronically on the Internet and is indexed in Scopus.