



I SCIENCE CONNECT MULTIPLIER EVENT

Teaching of sciences: a challenge to overcome



ERASMUS + PROJECT REF. No. 2019-1-RO01-KA201-063162
ID of the project: E1 (Multiplier event)

April 29th-30th, 2022

Faculty of Sciences of the University of Porto

Porto, Portugal.

<https://giedifup.wixsite.com/scicon2022>

Introduction

The I Science Connect (SciCon) Multiplier Event “*Teaching of Sciences: a challenge to overcome*”, is part of ERASMUS + project REF. No. 2019 - 1 – RO 01 - KA201 – 063162 (ID of the project: E1 - Multiplier event). The SciCon project aims to develop digital skills in secondary school students and teachers.

The event intends to present innovative ways to bring students closer to studying the sciences as an integrated domain. For this approach, activities carried out during the project are presented, as well as the intellectual outputs and contributions in the fields of Application for Virtual Laboratories, digital resources, Programming and Arduino.

The Multiplier Event is targeted for two types of participants: Portuguese teachers who teach science disciplines and practitioners who work in the field of Education, Training, and Management in face-to-face, blended and e-learning scenarios. The reason for selecting these practitioners as a target is that in a time of significant scientific discovery, the pedagogical dimension needs to be brought to the forefront of teaching/learning and learning processes for Science understanding and its role for the society; International workshop participants, partners of the organizing institution, faculties of science or pedagogy with whom the Department has scientific and collaborative contacts. Through these participants, the Intellectual Outputs will penetrate into international educational environments, which will represent a new dimension of project addressability.

The goals of the multiplication events are:

- to disseminate the results by improving the international dimension of the project
- to provide participants with tools and methods useful to the innovative approach of science teaching, with the student as the center of the action
- to share the intellectual output of the project
- to share experiences and results
- to explore new areas of cooperation between the participants

The Event has Portuguese and English as official languages. Presentations are in person or remotely, in Portuguese or English.

Agenda

Day 1: April 29 (online)

- 16:00 – 16:30: Opening Ceremony and general presentation of the project done by the Project Coordinator
- 16:30 – 17:30: Session C1: Video presentations of the project's activities developed by each school involved in the project (Portugal; Spain; Italy)
- 17:30 – 17:50: Coffee break
- 17:50 – 19:10: Session C1: Video presentations of the project's activities developed by each school involved in the project (Romania; Turkey; Greece; Latvia)
- 19:10 – 19:30: Presentation of Open Educational Resources done in the project by UPORTO team
- 19:30 – 19:45: Closing Ceremony of the first day of the event

Day 2: April 30 (in person and online)

- 14:30 - 14:45: Opening Ceremony of day 2 by the local coordinator of UPORTO
- 14:45 - 16:00: Session C2: Oral presentations of practical activities by participants of the project
- 16:00 - 16:15: Coffee break
- 16:15 - 17:45: Session C3: Oral presentations of practical activities by participants of the project
- 17:45 - 18:15: Workshop 1: Teaching Astronomy with Ozobots
- 18:15 – 18:45: Workshop 2: Algodoo - an alternative to interactive virtual labs
- 18:45 - 19:00: Closing Ceremony by the Project Coordinator

General Coordinator

Paulo Simeão de Oliveira Ferreira de Carvalho (DFA / UEC / FCUP)

Organizing Committee

Ana Cachide Pedroso (FCUP/AE S. Pedro da Cova)

Angela Maria dos Santos (IFPR – Campus Curitiba)

José Gonçalves (FCUP/AE Vale de Ovil)

Léo Rodrigues Macena dos Santos (UEC/FCUP)

Manuel Joaquim Marques (DFA/FCUP)

Marcelo Dumas Hahn (FCUP/Escola Global)

Marcelo José Rodrigues (IFIMUP-IN/ES António Sérgio)

Maria de Fátima Mota (DFA/FCUP)

Mariana Cardoso Balaton (INED)

Natália Alves Machado (FCUP)

Paula Costa (UEC/FCUP)

Paulo Simeão Carvalho (UEC/FCUP)

Scientific Committee

Maria de Fátima Mota (DFA/FCUP)

Manuel Joaquim Marques (DFA/FCUP)

Paulo Simeão Carvalho (UEC/FCUP)

Technical support

Léo Rodrigues Macena dos Santos (UEC/FCUP)

Pedro Cruz (DFA – FCUP)

Broadcast live: <https://videoconf-colibri.zoom.us/j/86439941357>

Internet:

Login: dfa.wifi.1@fc.up.pt

Senha: Encontro2022

Support and sponsorship

Department of Physics and Astronomy of the Faculty of Sciences

Science Education Unit

Faculty of Sciences of the University of Porto

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