



Contribution ID: 176

Type: **Oral presentations**

Classroom network analysis for pedagogical decision-making in Physics and Science Education

Wednesday 28 August 2024 10:30 (20 minutes)

We explore how educators interpret classroom sociograms and use their network related ideas to inform pedagogical decisions. A workshop titled CLASSNET was designed upon network research evidence in education and collaborative learning techniques (CLTs). CLASSNET was implemented during 2022 and 2023 on a sample in-service (43) and pre-service science teachers (136). Qualitative analysis of their pedagogical decisions during 2022 led to the revision of CLASSNET's content in 2023, where we added CLTs and group-level activities. Results highlight the need for network-based protocols for group formation, and the tendency for posing prescribed teaching methods while overlooking the classroom social ecology.

How would you like to present your contribution?

Live in Kraków (time slot to be allotted based on the programme)

Target education level

General

Category

Formal Education

Primary author: PULGAR NEIRA, Javier Alejandro (Physics Department, Universidad del Bío Bío (UBB), Concepción 4051381, Chile; Grupo de Investigación en Didáctica de las Ciencias y Matemática (GIDICMA), UBB, Chile.)

Co-authors: ESPINOZA, Carmen (Didactics Department, Universidad Católica de la Santísima Concepción, Concepcion, Chile); SALINAS, Francisco (Physics Department, Universidad de la Frontera, Temuco, 4811230, Chile.); SÁNCHEZ, Iván (Physics Department, Universidad del Bío Bío (UBB), Concepción 4051381, Chile; Grupo de Investigación en Didáctica de las Ciencias y Matemática (GIDICMA), UBB, Chile.); DE RUYT, Pablo (Grupo de Investigación en Didáctica de las Ciencias y Matemática (GIDICMA), UBB, Chile)

Presenter: PULGAR NEIRA, Javier Alejandro (Physics Department, Universidad del Bío Bío (UBB), Concepción 4051381, Chile; Grupo de Investigación en Didáctica de las Ciencias y Matemática (GIDICMA), UBB, Chile.)

Session Classification: Oral presentations

Track Classification: Physics Teacher Education and Professional Learning