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Type: Oral presentation

The introduction of circuits in secondary science education: teachers'views on confidence and content

Monday 30 June 2025 14:10 (20 minutes)

Results from a survey of Scottish secondary science teachers are presented. This survey investigated methods of introducing electrical circuits. Biology, chemistry and physics teachers teach science as one discipline in most schools. Results indicate elements of the curriculum as defined are taught, but there is variation in delivery. There is no agreement on definitions, with electrons featuring heavily in those of current. This may be problematic as students move towards later phases of their education. Median confidence in teaching the topic is lower for non-physicists and significant concerns are raised amongst specialists about impact on students.

Education level

Age 12-15 (Secondary education)

Physics topic

Other

Research focus

Innovative instructional strategies and pathways

Research method

Other

Organizing preference criteria

Track

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Session Classification: Parallel oral presentations

Track Classification: Physics teacher education & Professional learning (TEACH)