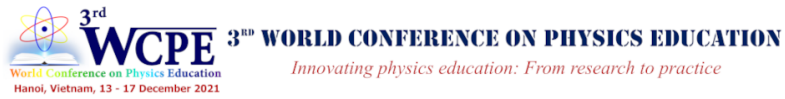


# WCPE III 2021 Hanoi, VIETNAM



**Monday 13 December 2021 - Thursday 16 December 2021**

## **Scientific Programme**

- 1. Educational reform: development and implementation of physics curriculum**
- 2. Competence-based Physics education**
- 3. Representation in teaching and learning physics**
- 4. Teaching and learning physics concepts**
- 5. ICT and multimedia in physics education**
- 6. Online physics teaching and learning**
- 7. Experiments and practical work in physics education**
- 8. Evaluation and assessment of student learning and development**
- 9. Initial teacher education, teacher professional development and Technological Pedagogical Content Knowledge**
- 10. Early science learning**

**11. Secondary school physics**

**12. University Physics: research and good practices**

**13. Physics into STEM education**

**14. Informal learning and science centers**

**15. Nature of Science, gender and socio-cultural issues in physics education**

**16. Motivational strategies and metacognition in physics education**

**17. Methodological issues in physics education research**

**18. Physics for environment and social issues**

**19. Interplay between physics and mathematics**

**20. Contemporary physics and modern physics in schools and universities**

## **21. Outreach of physics**