


25th International Workshop on Multimedia in Physics Teaching and Learning, 8 – 10 Sept. 2022

8 September 2022, Thursday		
12:00 - 12:30	Opening ceremony Speakers: Tomasz Greczyło, Lars-Jochen Thoms, Michał Tomczak Dean of Faculty of Physics and Astronomy	60 (1 st floor) 164 (2 nd floor)
12:30 - 14:00	Keynote (chairperson: Lars-Jochen Thoms) <i>Digital Competences and Physics Education – Perspectives for Classroom Practice and Teacher Education</i> Speaker: Andréas Mueller	60 (1 st floor) 164 (2 nd floor)
14:00 - 14:45	Lunch	119 (2 nd floor)
14:45 - 16:15	Workshops I	
	I.1 (room 320, 4 th floor) <i>Thermal Imaging Camera in Physics Hands-On Experiments</i> Leader: Petr Káčovský	I.2 (room 511, 6 th floor) <i>Using Low-Cost and Standalone Virtual and Augmented Reality Headsets to Teach and Learn Motion Concepts</i> Leader: Tommaso Rosi
16:15 - 16:45	Coffee break	119 (2 nd floor)
16:45 - 17:45	Poster presentations Presenters: Petr Káčovský, Zdeňka Koupilová, Robert Teese, Ralf Widenhorn	hall 2 st floor

9 September 2022, Friday		
9:00 - 10:30	Keynote (chairperson: Tomasz Greczyło) <i>Using phyphox for innovative teaching-learning situations in physics</i> Speaker: Jens Noritzsch	60 (1 st floor) 164 (2 nd floor)
10:30 - 11:00	Coffee break	119 (2 nd floor)
11:00 - 12:00	Workshops II <i>Using Phyphox for Innovative Teaching-Learning Situations in Physics</i> Leader: Jens Noritzsch	320 (4 th floor)
12:00 - 12:30	Coffee break	119 (2 nd floor)
12:30 - 13:30	Presentations I Speakers: Ralf Widenhorn - Using a 3D Camera and a Local Positioning System in Physics Instruction Lars-Jochen Thoms - Simple experiments to observe and analyse Haidinger's brush with a smartphone	60 (1 st floor) 164 (2 nd floor)
13:30 - 14:30	Lunch	119 (2 nd floor)
14:30 - 16:00	Keynote (chairperson: Robert Bryl) <i>Compute shaders in physics education</i> Speaker: Maciej Matyka	60 (1 st floor) 164 (2 nd floor)
16:00 - 16:30	Coffee break	119 (2 nd floor)
16:30 - 18:00	Workshops II	
	II.1 (room 320, 4 th floor) <i>Student Laboratory for Conductivity – a Low-Cost, Easy and Fun Project for Students</i> Leader: Dorottya Schnider	II.2 (room 511, 6 th floor) <i>Imaging in Physics Education and in Science Popularization: an Introductory Workshop</i> Leader: Peppino Sapia
19:00	Workshop dinner	 Restauracja Dwór Polski Rynek 5, 50-106 Wrocław www.dworpolski.wroclaw.pl



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10 September 2022, Saturday		
10:00 - 11:30	Keynote (chairperson: Ewa Dębowska) <i>How Computers Improve Physics Teaching Through Interactive Engagement</i> Speaker: Wolfgang Christian	60 (1 st floor) 164 (2 nd floor)
11:30 - 12:00	Coffee break	
12:00 - 13:00	Presentations II Speakers: Masoud Seifikar - Students' Perspective on the Classroom Response Systems in Physics Classrooms Francisco Esquembre - WebEJS: A fully Web-Based Version of Easy JavaScript Simulations	60 (1 st floor) 164 (2 nd floor)
13:00 - 13:30	Coffee break	
13:30 - 14:30	Presentations III Speakers: Marina Babayeva - Implementing Virtual Instruments to Increase Knowledge Comprehension and Engagement Rate in Distance Physics Teaching Joerg Zumbach - Visualization and Metacognitive Scaffolding in Learning from Animations about the Anomaly of Water	60 (1 st floor) 164 (2 nd floor)
14:30 - 15:00	Closing ceremony Speakers: Tomasz Greczyło, Lars-Jochen Thoms	60 (1 st floor) 164 (2 nd floor)

Workshop wi-fi access

Network: **IFD Guest**

Password: **ifdguest**

