

Empowering Teacher Noticing with Technology: A New Era for Teacher Education

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Enquiries: Mr. Alex CHEN (Email: fed_event@um.edu.mo / Tel: 8822-4575)

Speaker:

Prof. Qiaoping Zhang is an Associate Professor in the Department of Mathematics and Information Technology at The Education University of Hong Kong. He serves as the Programme Leader of the Master of Arts in Mathematics and Pedagogy [MA(MP)]. He is a member of the Curriculum Development Council Committee on Mathematics Education and the Coordinating Committee on Basic Competency and Assessment Literacy in the Hong Kong Education Bureau. He also acted as the Deputy Director of The Third Wave Lab at the University of Melbourne. His research interests include teacher noticing and mathematics teacher education, affect in mathematics education, and mathematics curriculum reform.

Abstract:

Teacher noticing is an important component of teachers' professional competence and has a profound impact on teacher education. However, capturing and analyzing teacher noticing often encounters the challenges of time-consuming efforts and potential distortions. Over the past two decades, research methods that incorporate technology have been widely used, and research on technology-enabled teacher education has been increasing. This seminar reviews the meaning and recent trends in teacher noticing research, with a special focus on studies that use technology. The findings show that technology helps overcome the limits of time and place, makes research easier to repeat, provides more objective analysis, and presents information in clearer ways. For future research and teacher development, this seminar suggests three ideas: use technology to create more real-life teaching situations for teacher noticing; combine different technologies to build interactive online platforms; and use video-based discussions to support teachers' professional growth.