

# DEVELOPING PRE-SERVICE CHEMISTRY TEACHERS' TPACK-CC THROUGH CITIZEN INQUIRY-BASED SCIENCE CAMP

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## ABSTRACT

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Pre-service chemistry teachers require TPACK training to be qualified teachers in the 21<sup>st</sup> century. Furthermore, no research focuses on TPACK-CC. TPACK-CC is TPACK that focuses on Chemistry Competencies. Pre-service chemistry teachers require TPACK-CC to equip students with chemistry competencies to respond to global social needs. This study aims to develop pre-service chemistry teachers' TPACK-CC through Citizen Inquiry-based Science Camp Learning Module. TPACK training is conducted for six days for four hours per day. The intervention was implemented through the SPA model as follows: Showing the Case (S), Practice in Team (P), and Application of the Case (A). Research outcomes are progress report of dissertation and paper published in proceeding international conferences indexed by Scopus. The target of this research is the 6<sup>th</sup> TKT which is the implementation of an intervention to enhance pre-service chemistry teachers' TPACK-CC. The results revealed that intervention could improve pre-service chemistry teachers' perceived TPACK-CC, TPACK-CC self-efficacy, and Chemistry Core Competencies self-efficacy. Additionally, intervention can improve pre-service chemistry teachers' ability to design TPACK-CC lesson plan as well.

Kata Kunci: *TPACK-CC, Pre-Service Chemistry Teachers*