



Certificate of Presentation

We hereby certify that the work
**The Increased Efficiency of the Amorphous/Silicon Heterojunction Solar Cells
with Silicon Micro-Channels In Back Side Substrate**

by

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was presented at the XIV Workshop on Semiconductors and Micro & Nano
Technology, in Campinas-SP, held on April 11-12, 2019.

A handwritten signature in blue ink, which appears to read "Jacobus Swart". The signature is written over a horizontal line.

Dr. Jacobus Swart
SEMIMATEC 2019 General Chair