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Reconfigurable Antennas Based on Stub-Loaded Substrate-Integrated Circuits

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ABSTRACT
In the last decade increasing attention and efforts have been placed on designing reconfigurable antennas, especially those utilising substrate-integrated technology. This technology provides many advantages such as low-loss, low cost and ease of circuit integration. This seminar introduces a family of reconfigurable antennas based on stub-loaded substrate-integrated circuits. The reconfiguration concept is summarized and its applicability is further demonstrated. The results show that the stub-loaded configuration provides a simple and effective solution to design reconfigurable antennas, especially in terms of convenient bias network and quasi-analytical the optimization of the desired frequency tuning-range.

BIOGRAPHY OF THE SPEAKER
Nghia Nguyen-Trong received the Bachelor’s degree (first class Hons.) in electrical and electronic engineering from the University of Adelaide in 2013. He is currently working toward the Ph.D. degree at the Adelaide Applied Electromagnetic Group. His research interests include applications based on substrate-integrated waveguide technology. Mr. Nguyen-Trong is one of the recipients for the undergraduate scholarship from the IEEE MTT-S in 2012. Based on his academic achievement, he received the Governor’s International Student of Year of South Australia Award in 2012 and University Medal in 2014. He was one of the recipients of the Best Student Paper Award at the 2014 International workshop on Antenna Technology (iWAT). He also received the First Prize in the Student Paper Competition at the 2015 IEEE MTT-S NEMO Conference. Nghia was awarded a travel grant from the IEEE South Australia Section in 2015.

Time/Date: 4:10 – 5:10 PM, Thursday, 31 March 2016
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North Terrace, The University of Adelaide