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Overview

Lerwen LIU has PhD in semiconductor physics and a number of years of research and business development experience in the field of nanotechnology. She was one of first nanotechnology analysts in the nineties while she was working at an US think tank Asia Technology Information Program (ATIP) based in Tokyo after 4 years of postdoctoral research in the field of semiconductor nanostructures conducted in Japan, USA and Italy. She subsequently joined in 2003 the largest industry research institute in Japan, the National Institute of Advanced Industrial Science and Technology (AIST), where she initiated and co-founded the Asia Nano Forum (ANF) connecting 15 economies in the Asia Pacific rim. She continues to serve as the Secretary of ANF actively fostering Nanotech R&D, Education collaborations among its members. She was invited to Singapore by its Economic Development Board (EDB) in 2007 and established NanoGlobe which is a leading consultancy promoting Singapore nanotechnology ecosystem to the international community especially industries worldwide. She and her NanoGlobe team had engaged and supported a number R&D companies and investment firms to set up their regional base in Singapore. During the last 8 years in Singapore, she has worked closely with the Singapore R&D community in Nanotechnology including universities/polytechnics, research institutes, government funding agencies and companies, actively bridging the gap between research and industry.

She was a program manager of the Atomic Precise Manufacturing Program (APM), a collaborative program between A*STAR IMRE (Singapore) and Zyvex (an USA based Nanotechnology industry pioneer) during 2008-2012. She is an evaluation panel member for the Proof-of Concept (POC) grant scheme of the National Research Foundation (NRF) and the Technology Innovation Fund of Ministry of Education of Singapore. She has been recognized by the World Islamic Forum and Islamic Development Bank as well as United Nation organizations as a key expert in nanotechnology and to whom they seek advice for strategic development in future innovation policy and sustainable development.

Dr Liu is passionately promoting sustainability. She created in 2014 an innovative interdisciplinary module at National University of Singapore titled “Nanotechnology for Everyone –From Smartphone, Innovation, to Entrepreneurship” with a unique focus on developing transversal skills for undergraduate students including innovation, entrepreneurship, communication, and leadership towards sustainability.

Dr Liu has been an invited speaker and organizer in numerous international conferences/exhibitions, workshops and roundtables focusing on nanotechnology commercialization. Together with her team, she educates EMBA participants on nanotechnology innovation and its impact on industry competitiveness and economic transformation.

Dr Liu has written (during 2003-2006) over 150 reports providing insights on nanotechnology policy, R&D and business trends in the Asia Pacific region. Her reports are

available at the Asia Pacific Nanotech Weekly (APNW, www.nanoworld.jp/apnw) sponsored by the Nanotechnology Research Institute (NRI) of Japan National Institute of Industry Science and Technology (AIST). She published her first book titled “Emerging Nanotechnology Power-Nanotechnology R&D and Business Trends in the Asia Pacific Rim” May 2009. Together with her NanoGlobe team of analysts, she continues to publish insightful information on Asia nanotechnology developments at www.nano-globe.biz and www.nanotech-now.com.

Dr Liu has a PhD in physics specializing in many-body effects and transports in semiconductor nanostructures, and has conducted research work in Australia, Italy, Japan, Singapore and USA. Dr Liu is an Australian citizen and currently based in Singapore.