



Kingdom of the Netherlands

事前登録

REGISTRATION

Nanotech Business Japan-Netherlands Webinar 2021

Tools for nano imaging and fabrication

10 June, 2021

16:00-17:25 (JST)

9:00-10:25 (CET)

NL

Holland High Tech
Global Challenges, Smart Solutions

TIME	SPEAKER	TIME	SPEAKER
NL JP	Moderated by Raoul Oostenbrink Coordinator Business Cluster Nanotechnology Japan		Presentation Wafer-scale nano imprinting for nano photonics
09:00 16:00	Opening Eric van Kooij Innovation Counsellor Embassy of the Kingdom of the Netherlands		 Nanoimprint solutions Rob Voorkamp Managing Director
09:05 16:05	Keynote Prof.Dr.Ing. A.J.H.M. Rijnders (Guus) Chairman, NanoLabNL Facing the future challenges in a national nano research infrastructure NanoLabNL is the Dutch national facility for nanotechnology research. Emerging themes such as Photonics, Quantum and 'Lab on Chip' depend on tools for nano fabrication and characterization. Although generic tooling suffices in most cases, specific requirements present certain challenges. How to enable excellence in a highly diversified nano lab environment which aims at catering both academia and companies?	09:35 16:35	SCIL Nanoimprint solutions offers patterning solutions for wafers from 3" up to 300 mm. Next to manual R&D tools and fully automatic cassette-to-cassette systems, SCIL also offers the imprint materials and processes to achieve maximum quality. Our systems are used in a large variety of end products such as Smart Glasses, 3D sensors, lasers, LED and many other nanophotonic applications. In our presentation we will focus on our tools and services for R&D as well as the SCIL development and pilot production services Superconducting single-photon detectors for quantum communication and quantum sensing Sander Dorenbos CEO
09:20 16:20	Presentation Yasuo Koide Director of Nanotechnology Platform Center in NIMS Overview of Nanotechnology Platform Japan (NPJ) The purpose of Nanotechnology Platform Japan (NPJ) is to establish a reliable nationwide research infrastructure (Platform) and support nanotechnology user researches for scientific innovation by alliance of 25 institutes which have cutting edge equipment and research know-how. The talk will provide overview of NPJ program.	10:10 17:10	Superconducting nanowire single-photon detectors have emerged as the new standard for low level light intensity or single-photon detection, due to their high efficiency, low noise, short time resolution and high repetition rate. In this talk the detector's main features will be presented as well as an overview of their applications: quantum communication and quantum sensing. In-situ Transmission Electron Microscopy: a MEMS-based route to explore untapped research possibilities at the nanoscale Hugo Perez CTO
		10:25 17:25	Q&A Close

Speakers



Raoul Oostenbrink

Raoul started his professional career in 1999 and has been active in the fields of IT Consulting, Investment Banking, Government, Medical Devices, Life Sciences and Research. His expertise lies with Business Development and Innovation. Raoul has performed various managerial and advisory roles at senior level, for companies such as Ordina, Robeco, Teleflex and TNO. He started his own consulting firm in 2014 with a focus on technology transfer (Science to Business), brokering between universities, corporates, government and start-ups. Assignments vary from managing an accelerator program for the Dutch nanotechnology initiative-NanoNextNL (€ 250 MIO), to laying the ground work for a Robotics Seed Investment Fund (€ 100 MIO). More recent assignments include the roles of Managing Director for MESA+ and for NanoLabNL. Raoul also manages and coaches several start-up companies. Since 2018, Raoul coordinates the Business Cluster Nanotechnology comprising Dutch companies and knowledge institutes- and focuses on strengthening relationships between The Netherlands and Japan in the nanotechnology space. Raoul holds a combined Bachelor's degree in Business Administration from the Rotterdam Business School and Terry College of Business (Georgia, USA), as well as a Master's degree in Social Sciences from VU Amsterdam.



Eric van Kooij

Eric van Kooij is Counsellor for Science, Technology and Innovation at the Netherlands Embassy in Tokyo. He supports and promotes knowledge-intensive collaboration between companies, research institutes and public authorities in the Netherlands and Japan. Eric obtained his degree in industrial economics at Erasmus University Rotterdam, after which he worked at Keio University in Tokyo on technology transfer within industrial networks. After joining the Ministry of Economic Affairs in The Netherlands he worked in various positions. Amongst others, he has been Head of the Netherlands Innovation Network in Japan, in South Korea, in China and in Taiwan, as well as Head of the Netherlands Economic Network in France, and Managing Director of NL Works in The Netherlands. Over the years Eric has published and lectured on a wide range of topics related to innovation, industrial and economic developments in Asia and Europe.



Prof. Dr. Ing. A.J.H.M. Rijnders (Guus)

Guus Rijnders is the scientific director of the MESA+ institute of nanotechnology at University of Twente. He investigates complex materials, particularly those used in electronic devices. He focuses on the structure-property relation of atomically engineered complex (nano)materials, especially thin film ceramic oxides. As one of the leaders in the field of PLD, and a driving force of interface engineering, Rijnders is one of the few major researchers who openly addresses controversial topics in the field. He has also successfully brought PLD from the laboratory to industry as the co-founder of two companies.



Yasuo Koide

Yasuo Koide is the director of Nanotechnology Platform Center, the lab director of Amano-Koide Collaborative Research Lab., and the group leader of Next-Generation Semiconductor Group at National Institute for Materials Science (NIMS). He received his Ph.D. degree from Prof. Isamu Akasaki, Nobel laureate in 2014, at Nagoya University in 1988 and fabricated an original metal-organic vapor phase epitaxy (MOVPE) apparatus with special reactor design, which provided success of the highest-quality GaN and AlxGa1-xN epitaxial layer using a low-temperature buffer layer technique, together with Prof. Hiroshi Amano, Nobel laureate in 2014 and one-year younger PhD student. His research interest is in optical and electrical devices of wide-bandgap semiconductors and their transport, surface, and interface physics.



Rob Voorkamp

Rob Voorkamp holds masters in Mechanical Engineering and Business Innovation. Throughout his career, Rob held several positions in project management, marketing and business development in different types of industry. His business development activities involved licensing, technology acquisition and M&A in high-tech industries. In 2015 Rob started together with several key inventors a high-tech venture around Philips' Substrate Conformal Imprint Lithography (SCIL).



Sander Dorenbos

Sander Dorenbos obtained his PhD in 2011 from Delft University of Technology on superconducting single photon detectors. He is co-founder of Single Quantum and currently leads the company as Chief Executive Officer. During his PhD, Sander demonstrated the advantages of superconducting nanowire detectors through numerous collaborations, published over 80 articles and paved the way for industrialization of these detectors.



Dr. Hugo Pérez

Dr. Hugo Pérez is currently the CTO at DENSSolutions. He has prior experience as Product Architect, Product Manager and Microsystems Engineer. His core expertise is on MEMS development for various applications, ranging from Life Sciences to Chemistry and Semiconductors. He holds a PhD degree in Nanoengineering, MSc in Molecular Bioengineering, MSc in Nanotechnology and an MBA.