



## Project Meeting with Industry

19 – 20 June 2017

Room F461.1 – F461.2 - Kronigzaal (4th floor), **Building 22**

Faculty of Applied Sciences

Delft University of Technology, Lorentzweg 1, 2628 CJ Delft

# PROGRAMME

## Day 1 – Monday, 19 June 2017

Start	Duration	
<b>12:00</b>	01:20	Lunch & Poster Presentations
<b>13:20</b>	00:10	Welcome
<b>13:30</b>	00:15	<b>ESR 1 - Alessandro Catanzaro</b> <b>Fabrication strategies for van der Waals heterostructures</b>
<b>13:45</b>	00:15	<b>ESR 2 - Luca Sortino</b> <b>Single photon emitters in two-dimensional materials</b>
<b>14:00</b>	00:15	<b>ESR 3 - Alejandro Rodriguez</b> <b>Single spins and single photons in 2d materials</b>
<b>14:15</b>	00:15	<b>ESR 4 - Najwa Sidqi</b> <b>Low loss dielectric Bragg Reflectors for quantum spin systems</b>
<b>14:30</b>	00:30	Break (Posters)
<b>15:00</b>	00:25	<b>Caspar Clark (Helia Photonics)</b> <b>Ideas to Income – the birth of your company</b>
<b>15:25</b>	00:25	<b>Arjan Bos (Urenco)</b> <b>Production and product development at URENCO Stable Isotopes</b>
<b>15:50</b>	00:25	<b>Andy Edmonds (E6)</b> <b>Diamond Synthesis for Quantum Technologies: An Industrial Perspective</b>
<b>16:15</b>	00:30	Break (Posters)
<b>16:45</b>	00:15	<b>ESR 6 - Matt Brooks - Spin-Degenerate Regimes for Single Quantum Dots in Transition Metal Dichalcogenide Monolayers</b>
<b>17:00</b>	00:15	<b>ESR 8 - Marco Manca</b> <b>Enabling valley selective exciton scattering in monolayer WSe2 through upconversion</b>
<b>17:15</b>	00:15	<b>ESR 9 - Riccardo Pisoni</b> <b>Gate-defined nanostructures in MoS2 van der Waals heterostructures</b>
<b>17:30</b>	00:15	<b>ESR 10 - Aroosa Ijaz</b> <b>Realization of atomically thin mirrors using MoSe2</b>
<b>17:45</b>	00:15	<b>ESR 11 - Sigurd Flagan</b> <b>Cavity Quantum Electrodynamics with Diamond</b>
<b>18:00</b>		Day 1 Meeting closes
<b>19:00</b>		<a href="#">Dinner hosted by TU Delft</a> . Venue - <a href="#">Moeke Delft</a> , Beestenmarkt 16, 2611 GB, Delft (Delft city centre) - tel: 015-213 33 11

## Poster Presentations – Day 1

Munich	<b>Andrii Volkovskiy</b> - Control of optical properties of 2D nanomaterials using proximal nanophotonic structures
attocube	<b>Samarth Vadia</b> - Towards high-finesse scanning cavity system in closed-cycle cryogenic system
Delft	<b>Takafumi Fujita</b> - Coherent spin shuttling through a quantum dot array
Delft	<b>Toivo Hensgens</b> - Quantum simulation of a Fermi-Hubbard model using a semiconductor quantum dot array
Delft	<b>Gabriel Droulers</b> - QuTech-Intel collaboration towards large scale integration of spin qubits in silicon
Delft	<b>Nodar Samkharadze</b> - Circuit QED with spin qubits in silicon

## Day 2 – Tuesday, 20 June 2017

Start	Duration	
<b>09:00</b>	00:25	<b>Arlette de Waard (Leiden Cryogenics)</b>
<b>09:25</b>	00:25	<b>Khaled Karrai (attocube)</b> - From Science to Industry, from the idea to product: a personal experience
<b>09:50</b>	00:25	<b>Huub Janssen (JPE)</b> - Positioning with extreme stability
<b>10:15</b>	00:25	<b>Gabriele Bulgarini (Single Quantum)</b> - Superconducting single photon detectors
<b>10:40</b>	00:30	Break
<b>11:10</b>	00:15	<b>ESR 12 - Yanick Volpez</b> - Three-Dimensional Fractional Topological Insulators in Coupled Rashba Layers
<b>11:25</b>	00:15	<b>ESR 13 - Valeria Cimini</b> - Quantum networks with NV centers
<b>11:40</b>	00:15	<b>ESR 14 - Stephan Philips</b> - A Programmable Two-Qubit Quantum Processor In Silicon
<b>11:55</b>	00:15	<b>ESR 15 - Fabio Ansaloni</b> - Implementation of quantum dots in Si/SiGe heterostructures at Copenhagen University
<b>12:10</b>	01:00	Lunch
<b>13:10</b>	02:00	<b>Supervisory/Training/Advisory Board Meeting</b> - <a href="#">Agenda</a> Venue - Room B269, second floor B-wing Qutech QClab
<b>15:10</b>		Finish

Supervisory Board		Training Board	
<b>Alexander Tartakovskii</b>	<b>USFD (Chair)</b>	<b>Alexander Tartakovskii</b>	<b>USFD (Chair)</b>
Mete Atatüre (Apologies)	UCAM	<b>Guido Burkard</b>	<b>UKON</b>
<b>Caspar Clark</b>	<b>HPL</b>	<b>Ferdinand Kuemmeth</b>	<b>UCPH</b>
<b>Friedemann Reinhard</b>	<b>TUM</b>	<b>Klaus Ensslin</b>	<b>ETH</b>
<b>Guido Burkard</b>	<b>UKON</b>	Mete Atatüre (Apologies)	UCAM
<b>Khaled Karrai</b>	<b>Attocube</b>	<b>Sandrine Soubes</b>	<b>USFD</b>
Bernhard Urbaszek (Apologies)	CNRS	Niko Tombros (Apologies)	HQ Graphene
Richard J Warburton (Apologies)	UNIBAS	<b>Huub Janssen</b>	<b>JPE</b>
<b>Lieven Vandersypen</b>	<b>TUD</b>	Matthew Markham (Apologies)	<b>E6</b>
<b>Klaus Ensslin</b>	<b>ETH Zurich</b>	<b>Andy Edmonds</b>	<b>Elected ESR</b>
<b>Ferdinand Kuemmeth</b>	<b>UCPH</b>	<b>ESRs to elect ESR representative on Day 1</b>	

### Advisory Board

<b>Prof M Bayer</b>	<b>TU Dortmund</b>
<b>Prof V Falko</b>	<b>Lancaster University</b>
Prof F Koppens (Apologies)	ICFO Barcelona