









Programme Committee

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Conference Chairs

Sergey Kubatkin (Chalmers) Jan Stake (Chalmers)

Graphene Week 2014 organised with support from



Exhibitors











Monday 23 June

7:30 - 8:30	Registratio	on	
8:30 - 12:30	Morning session 1 (RunAn) Chair: V. Falko		
8:30 - 8:35	Mon-1	Jan Stake and Sergey Kubatkin	Opening
8:35 - 8:50	Mon-1.2	Mats Viberg	Welcome by Chalmers First Vice-President
8:50 - 9:05	Mon-1.5	Jari Kinaret	Welcome by the director of the Graphene Flagship
9:05 - 9:15	Mon-1.7	Wide Hogenhout	FET Flagships - A new partnering approach
9:15 - 9:50	Mon-2-inv	Andre Geim	The rise of van der Waals Heterostructures
9:50 - 10:25	Mon-3-inv	Hong Byung Hee	Industrial production of graphene films for consumer elec- tronics
10:25 - 10:45	Coffee br	eak	
10:45 - 12:30	Morning	session 2 (RunAn) C	chair: J. Kinaret
10:45 - 11:20	Mon-4-inv	Luigi Colombo	Growth of graphene and other 2D materials: challenges and opportunities
11:20 - 11:55	Mon-5-inv	Frank Koppens	2D materials for strong light-matter interaction at nanometer lengthscales and ultra-fast timescales
11:55 - 12:30	Mon-6-inv	Amaia Zurutuza	Recent advances in graphene applications
12:30 - 13:30	Lunch		
13:30 - 16:50	Afternooi	n session A (RunAn)	Chair: L. Ponomarenko
13:30 - 13:50	Mon-a01	Geliang Yu	Hierarchy of Hofstadter states probed by capacitance spectroscopy
13:50 - 14:10	Mon-a02	Srijit Goswami	Magnetic response of ultra-clean edge-contacted graphene: transverse focussing quantum Hall effect and Klein tunnelling
14:10 - 14:30	Mon-a03	Tomoki Machida	Oscillatory magnetotransport between counter-circulating quantum-Hall edge channels in graphene p-n junctions
14:30 -14:50	Mon-a04	Martin Drienovsky	Towards superlattices: Lateral bipolar multibarriers in graphene
14:50 -15:10	Mon-a05	Sei Morikawa	Landau-level spectroscopy of graphene by tunneling through ultrathin hexagonal boron nitride
15:10 - 15:30	Mon-a06	Joshua Robinson	Van der Waals Heterostructures based on Epitaxial Graphene
15:30 - 15:50	Mon-a07	Jhih-Sian Tu	Resonant tunnelling in graphene - boron nitride - graphene heterostructures
15:50 - 16:10	Mon-a08	Cinzia Casiraghi	Raman fingerprint of graphene/h-BN superlattices
16:10 - 16:30	Mon-a09	Malcolm Connolly	Direct Imaging of Coherent Quantum Transport in Graphene Heterojunctions
16:30 - 16:50	Mon-a10	Anastasia Varlet	Anomalous sequence of quantum Hall liquids revealing tuneable Lifshitz transition in bilayer graphene
13:30 - 16:30	Afternooi	n session B (Palmst	edtsalen) Chair: A. Zurutuza
13:30 - 14:10	Mon-b01- inv	Jannik Meyer	Irradiation-induced modifications and beam-driven dy- namics in low dimentional materials
14:10 - 14:30	Mon-b03	Jie Sun	Chemical vapor deposition of nanocrystalline graphene di- rectly on arbitrary high-temperature insulators
14:30 -14:50	Mon-b04	Tom Yager	Express optical analysis of epitaxial graphene on SiC: im- pact of nanoscopic morphology on macroscopic quantum transport
14:50 -15:10	Mon-b05	Jacek Baranowski	Formation mechanism and properties of graphene buffer layer on SiC(0001)

	Monday	/ Tuesday	Wednesday Thursday Friday
15:10 - 15:30	Mon-b06	Martin Kalbac	Isotopically Labeled Turbostratic and Bernal Stacked Graphene
15:30 - 15:50	Mon-b07	Anderson Smith	Wafer Scale Transfer of Graphene for Sensors and Transis- tors
15:50 - 16:10	Mon-b08	D. Kurt Gaskill	Laundering the Dirt: Novel Lithographic Process to Realize Clean Epitaxial Graphene Surfaces for Device Applications
16:10 - 16:30	Mon-b09	Robert Weatherup	Engineering the Catalytic Growth of Graphene
16:50 - 18:30	Coffee an	d poster session	
19:00 - 20:30	-	s Welcome at Börs ous or walking)	en (City Hall), Gustaf Adolfs torg (transfer on your own,

Poster session

MonP-a01	Ageeth Bol	Towards lithography-free fabrication of graphene devices
MonP-a02	Esteban Climent-Pascual	Graphene oxide patterning and nano-graphene fabrication by electric arc lithography
MonP-a03	Shuojin Hang	Irradiation Induced Tunnel Barrier in Graphene
MonP-a04	Valeria Lotito	Creating large area plasmonic patterns on graphene via self-assembly and nanosphere lithography
MonP-a05	Park Myungjin	Nanoscale Perforation of Large-Area Graphene by Arrayed Pt Nanoparti- cles
MonP-a06	Endre Tóvári	Comparison of graphene nanoribbon fabrication techniques
MonP-b01	Luca Gragnaniello	Quasi-particle interference in epitaxial graphene nanoflakes on Au(111)
MonP-b02	Taher Amlaki	Band gaps in incommensurable graphene on hexagonal boron nitride
MonP-b03	Luis Brey	Negative Differential Conductivity and Coherent Tunneling transport in graphene-hBN-graphene structures.
MonP-b04	Florian Libisch	Negative Quantum Capacitance in Gated Graphene Nanodevices
MonP-b05	Dmitry Svintsov	Electron-hole hydrodynamics and collective excitations in graphene
MonP-b06	Jack Alexander-Webber	Two band magneto-transport in exfoliated thin films of $\mbox{Cu}_{0,2}\mbox{Bi}_2\mbox{Se}_3$ topological insulators
MonP-b07	Harihar Behera	Galvano-Coriolis effect in current carrying graphene for probing the iner- tial and gravitational properties of Dirac fermions in graphene
MonP-b08	Anders Bergvall	Impurity scattering and size quantization: an analytical study of current transmission in armchair graphene nanoribbons
MonP-b09	Ulf Briskot	Collision dominated hydrodynamics in graphene
MonP-b10	Otakar Frank	Wrinkles in graphene: morphology and Raman spectroscopy
MonP-b11	Roland Gillen	Indirect doping effects from impurities in $\mbox{MoS}_2\mbox{/BN}$ and $\mbox{MoS}_2\mbox{/HfO}_2$ heterostructures
MonP-b12	Faris Kadi	Microscopic modelling of phonon-assisted intraband absorption in graphene
MonP-b13	Tohru Kawarabayashi	Local density of states at topological defects in a Kekulé bond order in graphene
MonP-b14	lan Kellett	Graphene-Based Josephson Junctions with Varying Background Potential
MonP-b15	Yevgeniy Korniyenko	Second harmonic promotion in a ballistic graphene high-frequency tran- sistor
MonP-b16	Niclas Lindvall	Probing vortex avalanches in niobium thin films using weak localization in graphene
MonP-b17	Tomas Lofwander	Destroyed quantum Hall effect in graphene with grain boundaries
MonP-b18	Ermin Malic	Microscopic view on carrier dynamics in graphene
MonP-b19	Lachlan Marnham	Anomalous electron pairing in graphene: Cooper-like states and their trajectories
MonP-b20	Michael Mohn	Measurement of screening in \mbox{MoS}_2 and graphene heterostructures by electron energy-loss spectroscopy

Monday Tuesday Wednesday Thursday Friday

	Monday	Tuesday Wednesday Thursday Friday
MonP-b21	Gautam Mukhopadhyay	Strain-engineered band-gap of graphene-like GaN monolayer: Full potential DFT Calculations
MonP-b22	Johan Nilsson	Trapping electrons in graphene in a rotating saddle
MonP-b23	Mika Oksanen	Ripple-induced electron-phonon supercollisions in suspended graphene
MonP-b24	Francesco Pellegrino	Theory of integer quantum Hall polaritons in graphene
MonP-b25	Grzegorz Rut	Quantum-limited shot noise and quantum interference in graphene base Corbino disk
MonP-b26	Ken-Ichi Shizuya	Orbital Lamb shift in the lowest Landau level of graphene trilayers
MonP-b27	Pauline Simonet	Graphene - GaAs hybrid nanostructures
MonP-b28	Dmitri Smirnov	Aharonov-Bohm effect with an in-plane magnetic field
MonP-b29	Thibault Sohier	Boltzmann transport equation made simple: electron-phonon interactions screening and the phonon-limited electrical resistivity in graphene
MonP-b30	Nikodem Szpak	Quantum Transport in Deformed Graphene vs Dirac Equation in Curve Space
MonP-b31	Fedor Tkatschenko	Quantum transport simulations and Fabry-Perot interference patterns in multiple pn-junctions on graphene
MonP-b32	Giovanni Vignale	Violation of the Wiedemann-Franz law in clean graphene layers
MonP-b33	Paul Clark	A Graphene Electron Beamsplitter
MonP-b34	Dean Moldovan	Atomic collapse in strained graphene
MonP-b35	Sandra Šopić	Interplay between microscopic decoherence and superconducting prox imity effect in a graphene Andreev interferometer
MonP-b36	Edit Elisabet Helgee	Scattering of flexural acoustic phonons at graphene grain boundaries
MonP-b37	Slavisa Milovanovic	Spectroscopy of snake states using a graphene Hall bar
MonP-b38	Johannes Christopher Rode	Magnetotransport measurements on folded graphene layers
MonP-b39	Arne Senftleben	Lattice dynamics of few-layer graphene observed through femtosecone electron diffraction
MonP-b40	Marlene Adrian	Lattice dynamics in few-layer Molybdenum disulfide investigated by Ul trafast Electron Diffraction
MonP-b41	Jian Huang	Role of disorder in temperature-dependent magneto-transport of epitax ial graphene near the Dirac point
MonP-b42	Ming-Hao Liu	Micron-scale magnetotransport simulations for graphene suspended po junctions: Emergence of ballistic snake states
MonP-b43	Akihide Ichikawa	Adsorption of molecular oxygen on nitrogen-doped graphene
MonP-b44	Holker Fehske	Dot-bound and dispersive states in graphene quantum dot superlattices
MonP-b45	Yongjin Lee	Giant Interaction-induced Gap and electronic phases in Rhombohedra Trilayer Graphene
MonP-b46	Mehdi Neek-Amal	Graphene over hexagonal lattice substarte
MonP-b47	Larisa Chizhova	Graphene quantum dots with superlattice potential in the presence o magnetic field
MonP-b48	Diana Gradinar	Moire magnifying glass for strain and dislocations in van der Waal het erostructures
MonP-b49	Ute Kaiser	Properties of two dimensional materials obtained from experiments in a low-voltage aberration-corrected TEM
MonP-b50	Tom Yager	Restoring charge neutrality in epitaxial graphene via aqueous-ozone pro cessing and annealing
MonP-b51	Juraj Feilhauer	Tailoring the properties of electronic artificial graphene
MonP-b52	Xi Chen	Valley asymmetry and persistence of zero-energy mode in magnetic spectrum of bilayer graphene on h-BN
MonP-b53	Marta Gryglas-Borysiewicz	Resistivity fluctuations in microhallbars on CVD QFS-bilayer graphene
MonP-b54	Sihem Jaziri	Tunable zero-energy transmission resonances in shifted graphene bilaye

Tuesday 24 June

8:30 - 12:30	Morning s	ession 1 (RunAn) Ch	nair: T. Seyller
8:30 - 9:05	Tue-1-inv	Leonid Pnomarenko	Interactions in graphene double layer structure
9:05 - 9:40	Tue-2-inv	Allan H. MacDonald	Fractional QHE in bilayer
9:40 -10:15	Tue-3-inv	Ulrich Starke	Intercalation in epitaxial graphene on SiC: from quasi- freestanding graphene to superlattices with high doping levels
10:15 - 10:45	Coffee br	eak	
10:45 - 12:30	Morning	session 2 (RunAn) C	Chair: K. Gaskill
10:45 - 11:20	Tue-4-inv	Kostas Kostarelos	The emergence of graphene in biomedicine
11:20 - 11:55	Tue-5-inv	C.F.J. Flipse	Interface induced room temperature ferromagnetism in hydrogenated epitaxial graphene
11:55 - 12:30	Tue-6-inv	Rahul Raveendran Nair	Properties and applications of graphene-based materials
12:30 - 13:30	Lunch		
13:30 - 16:30	Afternoo	n session A (RunAn)) Chair: A. MacDonald
13:30 - 13:50	Tue-a01	Saverio Russo	Magnetic ordering in epitaxially grown trilayer graphene by \mbox{FeCl}_3 intercalation
13:50 - 14:10	Tue-a02	Haruyama Junji	Rare-metal Free Graphene (Nanomesh) Spintronics and Magnetism
14:10 - 14:30	Tue-a03	Stephan Roche	Enhancing Spin-Orbit Coupling in in Graphene-based Ma- terials: Quantum Spin Hall Effect and Spin Relaxation
14:30 - 14:50	Tue-a04	Venkata Kamalakar Mutta	Tunnel Spin Injection into Graphene using Hexagonal Boron Nitride
14:50 - 15:10	Tue-a05	Hongxin Yang	Switching of Magnetocrystalline Anisotropy of a Single Layer Cobalt Film by Graphene
15:10 - 15:30	Tue-a06	Bart Van Wees	Graphene spintronics: The current experimental status
15:30 - 15:50	Tue-a07	Dominik Bischoff	Characterizing electron wave-functions in ultrashort graphene nanoribbons on hexagonal boron nitride
15:50 - 16:10	Tue-a08	Samuel Lara-Avila	Spin relaxation mechanism in graphene on SiC from weak localization correction to conductivity in in-plane magnetic field
16:10 - 16:30	Tue-a09	Peter Rickhaus	Progress in Ultraclean Suspended Graphene: Interference patterns in magnetic field and guiding in an electrostatic channel
13:30 - 16:10	Afternoo	n session B (Palmst	edtsalen) Chair: R. R. Nair
13:30 - 13:50	Tue-b01	Matej Velicky	Electron Transfer Kinetics on Mono- and Multi-layer Graphene and Other 2-D Layered Materials
13:50 - 14:10	Tue-b02	A.T. Charlie Johnson	Scalable Production of Highly-Sensitive Nanosensors Based on Graphene Functionalized with a Designed G- Protein Coupled Receptor
14:10 - 14:30	Tue-b03	Sanna Arpiainen	Graphene Biosensor Programming by Genetically Engi- neered Receptor Modules
14:30 - 14:50	Tue-b04	Alexandr Talyzin	Structure of graphene oxide membranes in water ethanol and water/ethanol: X-ray diffraction and Neutron Reflec- tivity studies.
14:50 - 15:10	Tue-b05	Valentina Tozzini	Designing graphene for energy applications

	Monda	y Tuesday	Wednesday	Thursday	Friday
15:10 - 15:30	Tue-b06	Craig Poland	ties of nanomat targeted charae	erials that prom	Physicochemical proper- ote toxicity and the use of e rapid and cost-effective luring R&D
15:30 - 15:50	Tue-b07	Melanie Kucki		• •	materials with human ep- likely exposure routes
15:50 - 16:10	Tue-b08	Gregory Schneider	-	ydrophobicity of NA translocatio	f graphene for its use as n

16:30 - 18:30 Coffee and poster session

19:00 Opening of the Graphene Exhibit at Universeum, elective dinner, Korsvägen (transfer on your own, by tram, bus or walking)

Poster session

TueP-a01	Chuan Li	Unipolar supercurrent through graphene grafted with Pt-Porphyrins: Sig- nature of gate voltage dependent magnetism
TueP-a02	André Dankert	${\sf MoS}_2$ Field Effect Transistors with Ferromagnetic Tunnel Contacts
TueP-a03	lgor Beljakov	Spin-crossover and Massive Anisotropy Switching of 5d Transition Metal Atoms on Graphene Nanoflakes
TueP-a04	Nojoon Myoung	Sensitive Modulation of Transport through Multiple Magnetic Barriers in Graphene by Local Electrochemical Doping
TueP-a05	Khosrow Shakouri	Spin configuration in modulated graphene
TueP-a06	Maria Augustyniak- Jablokow	Electron Spin Resonance of graphene. Challenges difficulties benefits
TueP-a07	Matthias Droth	Exchange coupling between localized vacancy states in graphene nanoflakes
TueP-a08	Denis Kochan	Giant spin-orbit coupling due to fluorine adatoms in graphene
TueP-a09	Peter Makk	Spin injection to graphene through layered materials
TueP-a10	Ameneh Najafi	The topography of hydrogenated epitaxial graphene and the correspond- ing Ferromagnetic behavior
TueP-a11	Toshihito Osada	Pseudo-Spin Dependent Interlayer Magnetotunneling in Layered Dirac Fermion Systems
TueP-a12	Diego Rabelo Da Costa	Magnetic field dependence of the energy levels in bilayer graphene nano- flakes
TueP-a13	Manuel Schmidt	The Quantum Nature of Edge Magnetism
TueP-a14	Roman Strzelczyk	Towards stable edge magnetism in graphene
TueP-a15	Jana Vejpravova	Charge and strain distribution in graphene-nanoparticle system by Ra- man mapping under magnetic field
TueP-a16	John Robert Wallbank	The magnetic miniband spectra of graphene with hexagonal moiré super- lattices
TueP-a17	Jozef Sivek	Huge magnetic anisotropy in doped single layer Molybdenium disulfide and Fluorographene
TueP-a18	Andor Kormányos	Spin-Orbit Coupling, Quantum Dots, and Qubits in Monolayer Transition Metal Dichalcogenides
TueP-a19	Hee Chul Park	Tunable Giant Resistance in Vertical Heterojunctions Based on Ferromag- netic Graphene
TueP-b01	Omid Habibpour	Developing Graphene FETs and MMICs based on Hydrogen intercalation Graphene
TueP-b02	Stefan Hertel	Monolithic Epitaxial Graphene Electronics
TueP-b03	David Jiménez	How does graphene polycrystallinity impact on the performance of graphene based transistors ?
TueP-b04	Pawel Janusz Kowalczyk	The nanoscale characterization of resistive switching in graphene oxide systems
TueP-b05	Dong Wang	Back-gated field effect transistor of millimeter-scale graphene on dielec- tric substrates
TueP-b06	Jens Baringhaus	Ballistic pn-junctions in chemically gated graphene ribbons

	Monuay	ndesday Mednesday Mursuay Muay
TueP-b07	Axel Martin Eriksson	Nonresonant High Frequency Excitation of Nanomechanical Oscillators
TueP-b08	Mark Greenaway	Resonant tunneling and negative differential conductance in graphene/hBN/graphene transistors: effects of crystalline misorien- tation
TueP-b09	Cay-Christian Kalmbach	AC measurements of the quantum Hall resistance in epitaxial graphene
TueP-b10	Felix Lüönd	Dc and ac quantum Hall effect measurements with graphene
TueP-b11	Farmanbar Mojtaba	Tuning the Schotkky barrier heights at MoS ₂ metal contacts: a first- principles study
TueP-b12	Son Le	2D resistance map of graphene p-n junction in quantum Hall regime
TueP-b13	Wonjae Kim	Electrical rectification in three-terminal graphene device
TueP-b14	Miseikis Vaidotas	The applications of graphene in surface acoustic wave microfluidics
TueP-c01	Kasibhatta Kumara Ramanatha Datta	Carbon Dot Modified Graphene Oxide with Tunable Fluorescence- Ad- vanced Carbon Nanoarchitecture for Selective Cell Labeling
TueP-c02	Jean-Nicolas Longchamp	Ultraclean freestanding graphene as substrate for electrospray deposi- tion of biomolecules
TueP-c03	Peng Chen	Graphene Quantum Dots as the New Universal Fluorescent Probes: Syn- thesis and Applications
TueP-c04	Dmitry Kireev	Large array of GFETs for extracellular communication with neuronal cells
TueP-c05	Emil Bjerglund Pedersen	Electrochemical Carboxylation of Graphene to Create a Platform for Biomolecule Attachment
TueP-c06	Alice Montagner	Evaluation of graphene-based materials effects on the coccoid green alga Trebouxia gelatinosa Archibald
TueP-c07	Aravind Vijayaraghavan	Covalent and non-covalent multiplex bio-functionalisation of graphene through dip-pen nanolithography
TueP-c08	Mikael Syväjärvi	Towards electrodes and biosensors using graphene on silicon carbide
TueP-c09	Michael Spencer	Enhanced Sensitivity of Fabricated Graphene Electrochemical Sensor Electrode Arrays with Optimized Geometry
TueP-d01	Artjom Berholts	Light-activated gas sensitivity of graphene in ambient conditions
TueP-d02	Karim Elgammal	Density Functional Theory study of Graphene based Humidity Sensing
TueP-d03	lgor Lezhokin	Highly sensitive quasi freestanding epitaxial graphene gas sensor on 6H- SiC
TueP-d04	Christin Edblom	Diffusion induced dissipation in nanocarbon mechanical resonators

Wednesday 25 June

8:30 - 12:30	Morning se	ession 1 (RunAn) Ch	air: A. Ferrari
8:30 - 9:05	Wed-1-inv	Tony Heinz	Terahertz spectroscopy of graphene
9:05 - 9:40	Wed-2-inv	Alexey Kuzmenko	Influence of nanoscale defects on optical and plasmonic properties of graphene
9:40 - 10:15	Wed-3-inv	Alexander Balandin	Low-Frequency Current Fluctuations in Graphene: 1/f Noise and Beyond
10:15 - 10:45	Coffee br	eak	
10:45 - 12:30	Morning	session 2 (RunAn) C	Chair: F. Koppens
10:45 - 11:20	Wed-4-inv	Xiaodong Xu	Optoelectronics of 2D transition metal dichalcogenides
11:20 - 11:55	Wed-5-inv	Tony A Low	Light-mattter interactions in 2D materials
11:55 - 12:30	Wed-6-inv	Ado Jorio	Advances in the raman spectroscopy of graphene related systems
12:30 - 13:30	Lunch		
13:30 - 16:30	Afternoor	n session A (RunAn)) Chair: A. Tzalenchuk
13:30 - 13:50	Wed-a01	Vincent Bouchiat	Collapse of superconductivity in a hybrid tin-graphene Josephson junction array
13:50 - 14:10	Wed-a02	Wilfrid Poirier	Quantum Hall effect in polycrystalline CVD graphene: un- veiling unusual dissipation mechanism
14:10 - 14:30	Wed-a03	Zhenbing Tan	Cooper pair splitting realised in graphene quantum dots
14:30 - 14:50	Wed-a04	Pertti Hakonen	Graphene optomechanics realized at microwave frequen- cies
14:50 - 15:10	Wed-a05	Haitao Liu	On the Intrinsic Wettability of Graphene
15:10 - 15:30	Wed-a06	Janina Maultzsch	Full two-dimensional calculation of the double-resonant 2D-mode Raman scattering cross-section in bilayer graphene
15:30 - 15:50	Wed-a07	Georgia Tsoukleri	Few layer graphene flakes under efficient mechanical load- ing: experiment and modeling
15:50 - 16:10	Wed-a08	Nedjma Bendiab	Strain superlattices and macroscale suspension of Graphene induced by corrugated substrates
16:10 - 16:30	Wed-a09	Matteo Bruna	Quantification of defects in doped graphene using Raman spectroscopy
13:30 - 16:50	Afternoor	n session B (Palmst	edtsalen) Chair: A. Balandin
13:30 - 13:50	Wed-b01	Erica Guerriero	Integrated graphene high-gain voltage amplifiers and high-frequency ring oscillators
13:50 - 14:10	Wed-b02	Michael Andersson	Comparison of carrier scattering mechanisms in chemical vapor deposited graphene on fused silica and strontium titanite substrates
14:10 - 14:30	Wed-b03	Songlin Li	Carrier Injection and Transport in Two-Dimensional \mbox{MoS}_2 Layers
14:30 - 14:50	Wed-b04	Lili Yu	High-performance WSe $_2$ CMOS devices and integrated circuits
14:50 - 15:10	Wed-b05	David Horsell	Electron cooling mechanisms in graphene
15:10 - 15:30	Wed-b06	llya Goykhman	Plasmonic silicon-graphene Schottky photodetector for on-chip applications in the telecom spectral band.
15:30 - 15:50	Wed-b07	Valentin J Wittwer	Broadband Graphene Saturable Absorber Mirrors for VEC- SEL Mode-locking
15:50 - 16:10	Wed-b08	Emre Ozan Polat	Broadband optical modulators based on graphene super- capacitors

	Monda	ay Tuesday	Wednesday Thursday Friday
16:10 - 16:3	0 Wed-b09	Peter Qiang Liu	Large-area THz graphene plasmonic structures with en- hanced structural robustness
16:30 - 16:5	0 Wed-b10	Sanghyun Jo	Opto-electronic Properties of Mono- and Bi-layer \ensuremath{WS}_2
17:10 - 17:	-	ession: where to Chair: L. Colombo	o publish research on graphene and other 2d materials?
17:00 - 17:1		Samindranath Mitra	Graphene in Physical Review Letters
17:15 - 17:3	0 Wed-c2	Tim Smith	Introducing 2D Materials - a new multidisciplinary journal devoted to graphene and related two-dimensional materi- als
17:30 - 18:00	0 Wed-c3	Elisa De Ranieri, Luke Fleet, Andre Taroni	Publishing graphene papers in Nature journals
16:50 - 18:	30 Coffee ar	nd poster session	
	Free ever	ning	
Poster sess	sion		
WedP-a01	Philip Willke	Electronic Scale	and Transport Properties of Epitaxial Graphene on the Atomic
WedP-a02	Tymoteusz Ciul	k Transport	Properties of Epitaxial and CVD Graphene on SiC
WedP-a03	Rand Elmquist	Low-carrie	er-density monolayer epitaxial graphene devices on SiC
	Christof Neuma	-	terostructures of zero-dimensional and two-dimensional carbon
WedP-a05	Simon J. Altenb	ourg STM Char faces	racterization and Functionalization of Graphene on Metal sur-
WedP-a06	Hennrik Schmig	dt Transport	properties of thin MoS_2 in the high conduction regime
WedP-a07	Arseniy Lartsev	-	nrier density in epitaxial graphene on SiC across charge neu- int using corona discharge
WedP-a08	Ana Martin Rec		ed Moire Patterns on Graphene on Rh(111) grown under Ultra- ium Conditions
WedP-a09	Barbara Pacako		ies on Wrinkled Graphene: How do the Nanoparticles Influence Topography
WedP-a10	Ji-Yong Park	-	ting changes in local electrical conductance of individual oxide sheets with reduction
WedP-a11	Michal Wolunta	irski Various m	nethods of deposition graphene oxide flakes for SEM imaging.
WedP-a12	Chariya Virojanadara	Band stru using nan	icture and stacking of multilayer C-face graphene investigated io-ARPES
WedP-a13	Filippo Giannaz		properties of hydrogen intercalated epitaxial graphene/SiC investigated by nanoscale current mapping
WedP-a14	Andrey Turchar		n vertical van der Waals heterostructures: Non-destructive lization of graphene for electronic applications
WedP-a15	Santiago Jose Cartamil-Buenc		lity of Suspended 2D Material Membranes
WedP-a16	Osvaldo Del Pozo-Zamudio	Optical in	vestigation of stability of InSe and GaSe thin films
WedP-a17	Engin Durgun	Monolaye rials	rs of MoS_2 and WS_2 as Oxidation Protective Nanocoating Mate-
WedP-a18	Johannes Jobst	Utilizing (face Pote	Graphene's Quantum Interference in LEEM to Probe Local Sur- ntials
WedP-a19	Felix Kampmar	n Disorder a	and doping at the edges of graphene nanoribbons
WedP-a20	Hu Li	Atomic st and high	ructure of defective graphene under Ga ion irradiation at low doses
WedP-a21	Christos Melios	Effects of	H_2 -intercallation on surface potential of epitaxial graphene
WedP-a22	Daniel Midtved	t Atomicall	y thin phononic crystals from graphene membranes

Monday Tuesday Wednesday Thursday Friday

	Monday	luesday Wednesday Thursday Friday
WedP-a23	Christoph Neumann	Magneto Raman microscopy on monolayer and bilayer graphene-hBN heters erostructures
WedP-a24	Vishal Panchal	Visualization of edge effects in graphene nanodevices
WedP-a25	Amaia Pesquera	Transmission electron microscopy for imaging graphene features
WedP-a26	Mariusz Zdrojek	Nonlinear thermal conductivity of a supported MoS $_2$ monolayer
WedP-a27	Wataru Norimatsu	Interface modification by nitrogen in epitaxial graphene on SiC
WedP-a28	Chao Xia	Thermal stability of metal functionalized graphene grown on Si-face SiC
WedP-a29	Deniz Cakir	Doping of Rhenium Disulfide monolayers: A systematic first principles study
WedP-a30	Alexandre Merkulov	Extremely Low Impact Energy SIMS characterization of graphene
WedP-a31	Pawel Dabrowski	Properties of Nitrogen doped Graphene
WedP-a32	Hasan Sahin	Rhenium Disulphide: Bulk as if Monolayers
WedP-a33	László Péter Biró	Scanning Probe Microscopy Characterization of CVD Graphene and Nano- lithography with Crystallographic Orientation Control
WedP-a34	Rositsa Yakimova	Sensitivity of epitaxial graphene to atmospheric conditions
WedP-a35	Léonard Schué	Structural and spectroscopic properties of h-BN layers
WedP-a36	Lionel Dubois	Taming a promising graphene like catalytic material: Molecular Approach to Graphitic Carbon Nitride (g-CN)
WedP-a37	Tauno Kahro	Breathing modes in Raman of CVD grown twisted bilayer graphene
WedP-b01	Tim Verhagen	Low temperature Raman-spectroscopy of isotopically labelled bilaye graphene
WedP-b02	Johannes Binder	Simultaneous Raman and electrical / electrochemical measurements of an aqueous solution gated graphene field effect transistor
WedP-b03	Katarzyna Golasa	The effect of disorder on the Raman scattering in MoS_2
WedP-b04	Mats Granath	Plasmons and plasmarons in bilayer graphene: results from RPA and self- consistent GW calculations
WedP-b05	Kacper Grodecki	Resonant Raman scattering on buffer layer in 4H-SiC(0001)
WedP-b06	Felix Herziger	Double-resonant LA phonon scattering in graphene and carbon nan- otubes: dependence on laser excitation energy layer number and tube diameter
WedP-b07	Silvia Milana	Raman Spectroscopy of Layer Breathing Modes of multilayer graphene
WedP-b08	Emanuele Poliani	Nanoscale Raman imaging of a single graphene fin
WedP-b09	Ben Van Duppen	Polarization function and plasmarons in ABA and ABC stacked trilayer graphene
WedP-b10	Tobias Wenger	Electromagnetic response of graphene
WedP-b11	Stephan Winnerl	Anisotropy of absorption bleaching and carrier relaxation in graphene
WedP-b12	August Yurgens	Variation of the Dirac point in graphene caused by UV light
WedP-b13	Francisco Bezares	Chemical Functionalization of Graphene for Plasmonic Applications
WedP-b14	Vanya Darakchieva	Infrared Optical Hall effect in epitaxial graphene
WedP-b15	Achim Woessner	Near-field imaging of plasmons in graphene
WedP-b16	Wissem Zouaghi	Terahertz metamaterial behavior of patterned single-layer graphene

Thursday 26 June

8:30 - 12:30	Morning se	ession 1 (RunAn) Ch	air: P. Hakonen
8:30 - 9:05	Thu-1-inv	Di Wei	Application of graphene in electrochemical energy storage devices
9:05 - 9:40	Thu-2-inv	Peter Steeneken	Graphene sensors for semiconductor industry
9:40 -10:15	Thu-3-inv	Georg Duesberg	Functional electrodes from 2D materials
10:15 - 10:45	Coffee br	eak	
10:45 - 12:30	Morning	session 2 (RunAn) C	Chair: R. Yakimova
10:45 - 11:20	Thu-4-inv	Thomas Seyller	Phonons in epitaxial graphene on SiC
11:20 - 11:55	Thu-5-inv	Christos Dimitrakopoulos	Wafer-scale epitaxial graphene on SiC-synthesis devices and transfer
11:55 - 12:30	Thu-6-inv	Lain-Jong Li	Growth of transition metal dichalcogenide monolayers with chemical vapor deposition
12:30 - 13:30	Lunch		
13:30 - 16:50	Afternoo	n session A (RunAn)	Chair: E. Quesnel
13:30 - 13:50	Thu-a01	Andreas Pospischil	Photovoltaic Energy Conversion and Electrically Driven Light Emission in a WSe $_2$ Monolayer p-n Junction
13:50 - 14:10	Thu-a02	Jacob Tse-Wei Wang	All Low-Temperature Processed Thin Film Perovskite Solar Cells Based on Graphene/TiO ₂ Nanocomposites as Electron Collection Layers
14:10 - 14:30	Thu-a03	Marco Mercurio Furchi	Photovoltaic effect in an atomically thin p-n junction
14:30 - 14:50	Thu-a04	Torge Mashoff	Functionalized graphene as a system for hydrogen storage
14:50 - 15:10	Thu-a05	Jan Bitenc	Graphene materials as components of advanced battery systems
15:10 - 15:30	Thu-a06	Charles Agnes	Graphene oxide and derivatives as materials for electro- chemical storage purposes
15:30 - 15:50	Thu-a07	Joon Young Kwak	Study of Electrical and Optical Characteristics of Multilayer MoS ₂ -Graphene Hetero-Junction
15:50 - 16:10	Thu-a08	Keisuke Takahashi	Theoretical and experimental stabilization of hydro- genated iron clusters over the graphene
16:10 - 16:30	Thu-a09	Pablo Alonso-González	Shaping propagating graphene plasmons with tailored metal antennas
16:30 - 16:50	Thu-a10	Michael Krueger	Hybrid nanocomposites of quantum dots and functional- ized graphenes for optoelectronic applications
13:30 - 16:50	Afternoo	n session B (Palmst	edtsalen) Chair: V. Palermo
13:30 - 13:50	Thu-b01	Keith Paton	An Industrially Relevant Route to High Quality Graphene
13:50 - 14:10	Thu-b02	Rene Hoffmann	Electrochemical production of graphene and graphane flakes
14:10 - 14:30	Thu-b03	Rónán Smith	Using Edge and Confinement Effects for in-situ Determina- tion of Size and Thickness of Liquid-Exfoliated Nanosheets
14:30 - 14:50	Thu-b04	Alba Centeno	Graphene for tough and electroconductive alumina ceram- ics
14:50 - 15:10	Thu-b05	Katarzyna Juda	Graphene synthesis at a large scale in a novel atmospheric pressure microwave plasma reactor
15:10 - 15:30	Thu-b06	Sebastian Heeg	Strained graphene as a probe for plasmon-enhanced Ra- man scattering by gold nanostructures
15:30 - 15:50	Thu-b07	Jun Li	Tuning the electronic properties of graphene by molecular self-assembly

	Mond	ay	Tuesday	Wednesday Thursday Friday					
15:50 - 16:10	0 Thu-b08	Norb	ert Fabricius	Standardization of Nano-enabled Electrotechnical Prod- ucts: Perspectives for the Graphene Flagship					
16:10 - 16:30	0 Thu-b09		lberto Batista çalves	Graphene Oxide: An emerging nanomaterial for cancer therapy					
16:30 - 16:50	0 Thu-b10	Maci	ej Rogala	Graphene oxide overprints for flexible and transparent electronics					
16:50 - 18:30 Coffee and poster session									
19:00	Conferend by tram, l			rant Kajskjul 8, Packhusplatsen 11 (transfer on your own,					
Poster session									
ThuP-a01	Wei-Hua Wang		Biologically inspired graphene-chlorophyll phototransistors with high gain						
ThuP-a02	Roland Jago		Light emission and carrier dynamics of graphene in an optical cavity						
ThuP-a03	Zhe Jiang		Power scaling graphene mode-locked fiber laser						
ThuP-a04	Shisheng Lin		Graphene:	Highly increasing the lifetime of light-emitting-diodes					
ThuP-a05	Ivan Nikitskiy		Hybrid graphene-quantum dot phototransistors for IR-imaging applica- tions						
ThuP-a06	Yuki Okigawa		Fabrication of polymer organic electro-luminescence devices using graphene films synthesized by plasma CVD						
ThuP-a07	Daniel Popa		Few-cycle	pulses with graphene lasers					
ThuP-a08	Minjung Kim			ndence of photocurrent at a junction between ABA and AB(tri-layer graphene					
ThuP-a09	Silvio Morgenstern		Laser-induced heating of nano-crystalline graphene monitored by Ultra- fast Electron Diffraction						
	Marcin Mucha-Kruczynski		Optical absorption of monolayer and bilayer graphene on hBN						
ThuP-a11	Egon Pavlica		Time-of-flig	ght photoconductivity of polymer:graphene blends					
	Nils Peter Scheuschner		Photoluminescence of freestanding single and few-layer $\ensuremath{\text{MoS}}_2$						
ThuP-a13	Stefan Schwarz		Optics of two-dimensional chalcogenide films in tunable photonic micro- cavities						
ThuP-a14	Meinrad Sidler		Single Photon Emitters in Monolayer WSe_2						
ThuP-a15	Andrea Tomadin		Plasma-wave photodetection in dual-gated graphene bilayers						
ThuP-a16	Maxim Trushin		On the ultrafast optical pump-probe measurements in graphene at low pump fluence						
ThuP-a17	Mark Lundeberg	9	Mid-infrare	ed photocurrent in graphene					
ThuP-a18	Jaroslaw Sotor		-	nchronization of mode-locked thulium- and erbium-doped fibe ommon graphene saturable absorber					
ThuP-a19	Mathieu Massic	otte	The effect graphene	of photon energy on hot-carrier mediated photoresponse in					
ThuP-b01	Chaojie Cui			ctroconductive mesoporous graphene nanofibers: synthesis tance performance at 4V					
ThuP-b02	Dimitrios Konios	5	Graphene- Cell	based buffer layers for improved Bulk Heterojunction Sola					
ThuP-b03	Zhen Yuan Xia			raphene foam as supercapacitor electrode via electrochemica graphene precursor					
ThuP-c01	Jason Perman		Supramolecular Pillaring of Graphene and Graphene Oxide						
ThuP-c02	Florence Duclai	roir		raphene growth and investigations around its non-covalent o Inctionalization					
ThuP-c03	Masatou Ishihar	a	Surface mo conductive	odification of graphene films and its application for transparen					
ThuP-c04	Mattias Kruskop	of		ng of 6H-SiC(0001) surfaces by argon annealing for epitaxia					

	Monday	Tuesday Wednesday Thursday Friday				
ThuP-c05	Choi Kyoungjun	Selective Growth of Graphene by Chemical Vapor Deposition of Acetylene on Binary Metal Alloy				
ThuP-c06	Iwona Pasternak	Frame method of graphene films transferring				
ThuP-c07	lgor Wlasny	The limitations of graphene coatings on single- and polycrystalline copper				
ThuP-c08	Robert Jan Buda	Surface characterization and electronic properties of CVD graphene on SiC				
ThuP-c09	Aneta Drabinska	Reducing inelastic scattering in N-doped CVD graphene on SiC (0001) by hydrogen intercalation				
ThuP-c10	Ivan G. Ivanov	Characterization of as-grown and H-intercalated graphene on SiC by com- bined Raman and reflectance mapping				
ThuP-c11	Carlo Orofeo	Synthesis of two-dimensional \mbox{MS}_2 (M=MoW) and their heterostructure by sulfurization of thin metal films				
ThuP-c12	Grigory Skoblin	A responsive hot-wall CVD system made of two graphitic heaters inside a cold-wall chamber				
ThuP-c13	Martina Wanke	The Influence of Monosilane on Epitaxial Graphene Growth in Ar atmo- sphere				
ThuP-c14	Magdalena Aksienionek	Combined liquid phase and thermal exfoliation of graphite to graphene ribbons				
ThuP-c15	Britta Andres	Characterization of nanographite and graphene produced in a high- pressure homogenizer				
ThuP-c16	Nicklas Blomquist	Large-scale production of graphene				
ThuP-c17	Adrien Michon	Transport properties and quantum Hall effect of graphene films grown by CVD on SiC(0001) with in-situ hydrogenation				
ThuP-c18	J. Marcelo Lopes	Growth of high-quality graphene by molecular beam epitaxy on epitaxial Ni/MgO(111) substrates				
ThuP-c19	Luca Croin	Insights on the mechanism of Remote Catalysis of Hydrocarbons for Graphene CVD				
ThuP-c20	Jawad Ul Hassan	Quasi-free-standing monolayer and bilayer graphene growth on homoep taxial on-axis 4H-SiC(0001) layers				
ThuP-d01	Fabian Beckert	Tailor-made functionalized graphene for carbon/polymer nanocomposites				
ThuP-d02	Ismail Hijazi	Modified graphene for nanocomposite applications				
ThuP-d03	Angelos Kyrlidis	Engineering Functional Carbon Additives For Polymer Composites And Other Applications: From Carbon Black To Graphene Based Materials				
ThuP-d04	Anna Pajor-Swierzy	The electrocatalytic properties of the multilayer polyelectrolyte films formed with Prussian Blue nanoparticles and reduced graphene oxide				
ThuP-d05	Johan Liu	Development and characterization of graphene-enhanced thermal con- ductive adhesives				
ThuP-d06	Matthew Thornton	PolyGraph: Large scale in-situ production of graphene for the multi- functionalisation of thermosetting resins				
ThuP-d07	Alexander Balandin	Graphene Applications in Thermal Interface Materials for Heat Removal from Advanced Electronics				
ThuP-d08	John Parthenios	Raman spectroscopy probes frictional properties of graphene/ polymer interface				

Friday 27 June

8:30 - 12:30 Morning session 1 (RunAn) Chair: B. Beyer 8:30 - 9:05 Fri-1-inv Rolf Mülhaupt Scale-up of graphite oxide synthesis for binder-free graphene dispersions nanocomposites and 3D printing of catalysts and supercaps Atomically precise synthesis of graphenes: a bottom up 9:05 - 9:40 Fri-2-inv **Xinliang Feng** approach Fragmentation and exfoliation of low-dimentional materi-9:40 - 10:15 Fri-3-inv Vincenzo Palermo als: a statistical approach

10:15 - 10:45 Coffee break

10:45 - 12:30	Morning session 2 (RunAn) Chair: M. G. Hernández						
10:45 - 11:20	Fri-4-inv	Maurizio Prato	Synthesis and applications of Functionalized graphene				
11:20 - 11:55	Fri-5-inv	Debdeep Jena	Electronic devices enabled by graphene				
11:55 - 12:25	Fri-5.5	Jan Stake and Sergey Kubatkin	Closing Graphene Week 2014				
12:25 - 12:30	Fri-6		Announcement of Graphene Week 2015				

12:30 - 13:30 Lunch