

13th Int. Workshop on Nanomechanical Sensing Delft, The Netherlands, 22-24 June, 2016

PROGRAM DETAILS

Venue: Theater de Veste, Vesteplein 1, Delft

Museum visit and Conference dinner
(23 June @18:00h): Museum Prinsenhof Delft,
Sint Agathaplein 1, 2611 HR Delft

Presentation (Invited): 24 min + 5 min discussion
(Speakers should register their presentation prior to the session)

Presentation (Oral): 12 min + 2 min discussion
(Speakers should register their presentation prior to the session. Students have opportunity to win the best presentation award.)

Poster Flash Presentation: 30 sec
(Submit one slide prior to the session. The slide should contain: Poster number, Title, Research question, Answer found and one/two representative figure/s.)

Posters: Displayed on all three days
(A0 size, portrait format. Students have the opportunity to win the best poster award. Presenting author should be present near the poster during official poster hours scheduled on day 1 and day 2 at the end of the day's program respectively.)

Time Table

Day 0	21 JUN 2016; Tuesday
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17:00h – 19:00h	Pre-Registration and Welcome drinks
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Day 1	22 JUN 2016; Wednesday
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8:00h	Registration
8:45h	Start of the event; Welcome

Session 1: Nano Instrumentation – I

Chair: Hans Goosen, TU Delft, Netherlands

9:00h	Why I like nanomechanical biosensors (Invited)	Javier Tamayo IMM-CSIC, Spain
9:30h	Spatially Multiplexed Micro-Spectrophotometry for Nanomechanical and Nanoplasmonics Applications	Jose J. Ruz IMM-CSIC, Spain
9:45h	Self-sensing and self-transduced cantilever for AFM in SEM applications	Tihomir Angelov TU Ilmenau, Germany
10:00h	Forces applied in a classical touch assay	Adam Nekimken Stanford Univ., USA
10:15h	Upconverting nanoparticles as biological force sensors	Alice Lay Stanford Univ., USA

10:30h – 11:00h	Coffee Break
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Session 2: Nano Instrumentation – II

Chair: Javier Tamayo, CNM-CSIC, Spain

11:00h	Sense and sensors for atomic-scale friction (Invited)	Joost Frenken ARCNL, Netherlands
11:30h	Nanomechanical Membrane-type Surface Stress Sensor (MSS) Towards Mobile Olfaction	Genki Yoshikawa MANA, Japan
11:45h	Vectorial scanning force microscopy using a nanowire sensor	Nicola Rossi Univ. Basel, Switzerland
12:00h	A new horizon: Using heat to measure distance in high performance metrology solutions	Roy Bijster, TU Delft, Netherlands
12:15h	Research Program 3D Nanomanufacturing and Nanometrology	Hamed Sadeghian TNO, Netherlands

12:30h till 12:45h	Posters: Flash presentations (ID 4 – ID 56) (30 sec per topic)
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12:50h – 14:00h	Lunch break
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Session 3: MEMS/NEMS – I

Chair: Thomas Thundat, Univ. Alberta, Canada

14:00h	Femtometer actuation and detection of a graphene NEMS device using a superconducting microwave cavity (Invited)	Gary Steele TU Delft, Netherlands
14:30h	Enhancing the Performance of Graphene NEMS	Marsha Parmar IISc, India
14:45h	Squeeze-film pressure sensors from single-layer graphene	Robin Dolleman, TU Delft, Netherlands
15:00h	Mass sensing with graphene and carbon nanotube resonators	Jil Schwender ICFO, Spain
15:15h	Frequency fluctuations in mono and polysilicon nanoresonators	Sébastien Hentz, CEA-LETI, France

15:30h – 16:00h	Coffee break
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Session 4: MEMS/NEMS – II

Chair: Genki Yoshikawa, MANA, Japan

16:00h	Strides towards chemical selectivity (Invited)	Thomas Thundat Univ. Alberta, Canada
16:30h	Geometric Optimization of MEMS Resonator for Targeted Nonlinear Dynamic Response	Lily Li UCSB, USA
16:45h	Design and Fabrication of a Nanomechanical Resonator Platform with Tunable Quality Factor	Atakan B. Ari Bilkent Univ., Turkey
17:00h	Monitoring cross linking density of elastomers by microcantilever sensors	Changguo Xue Max Planck, Germany
17:15h till 17:35h	Posters: Flash presentations (ID 57 – ID 113) (30 sec per topic)	

17:35h - 18:30h	Drinks and Poster session (Odd numbered posters)
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Session 5: Theory / Modeling

Chair: Sébastien Hentz, CEA-LETI, France

9:00h	Linear and nonlinear dynamics of microcantilevers in liquid environments (Invited)	Arvind Raman Purdue Univ., USA
9:30h	Highly sensitive microelectromechanical mass sensor with non-uniform beams	Ashok Kumar Pandey IIT Hyderabad, India
9:45h	Utilising eigenmode shifts in a coupled cantilever array to increase throughput and sensitivity of non-contact AFM	Samuel Jackson Univ. Canterbury, New Zealand
10:00h	Quantifying Amplitude Reduction Mechanism in Tapping Mode Atomic Force Microscopy	Sassan Janbahan TU Delft, Netherlands
10:15h	A revised Stoney's equation with the inclusion of the surface charge state of an adsorbate film on a microcantilever	Nenghui Zhang Shanghai Univ., China

10:30h - 11:00h

Coffee Break

Session 6: Fluid/Interaction

Chair: Murali Ghatkesar, TU Delft, Netherlands

11:00h	Nanomechanical sensors for drug delivery related applications (Invited)	Anja Boisen DTU, Denmark
11:30h	Investigating the wetting behaviour of a structured surface using integrated microresonators	Steffen Klingel Univ. of Kaiserslautern, Germany
11:45h	Microcapillary mass sensors with electrical readout via quartz tuning fork	Jungchul Lee Seoul National Univ., Korea
12:00h	Development of a hybrid chamber for combined measurements in liquid environments	Andreas Thon MECWINS S.A., Spain
12:15h	Transient analysis of analyte desorption due to thermal cycling with varying pulse duration	Patrick Getz Georgia Institute of Technology, USA

12:30h - 14:00h

Lunch break (Photo session)

Session 7: Optomechanics

Chair: Hamed Sadeghian, TNO, Netherlands

14:00h	Nano-optomechanics with a levitated nanoparticle (Invited)	Romain Quidant ICFO, Spain
14:30h	Applying nano-optomechanical systems to mass sensing	Wayne K. Hiebert NIN, Canada
14:45h	Frequency-modulated hot spot for phase-locked Raman spectroscopy	Silvio Greco CNR-IOM, Italy
15:00h	Integrated silicon photonics transduction of even nanomechanical modes in a doubly clamped beam	J.N. Westwood-Bachman Univ. Alberta, Canada
15:15h	Optomechanical downmixing for nanoresonators	Luca Leoncino CEA-LETI, France
15:30h	Absolute Accuracy in Nanomechanical Metrology	Simon Muntwyler FemtoTools AG, Switzerland

15:45h - 16:45h	Coffee break & poster session (Even numbered posters)
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16:45h - 18:00h	Free time
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18:00h - 21:00h	Conference Dinner and Museum (Prinsenhof)
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Session 8: Functionalization / Sensing

Chair: Joseph Ndieyira, UCL, UK

9:00h	Applicability of XNA probes in nanomechanical sensing (Invited)	Rupa Mukhopadhyay, IACS, India
9:30h	Harnessing mechanical properties of DNA: collective elastic behavior arisen from intermolecular forces	Daniel Ramos IMM-CSIC, Spain
9:45h	Fast-potential driven surface stress for time-resolved measurements	Ann-Lauriene Haag McGill, Canada
10:00h	Development of a multimodal explosive sensing device	Seonghwan Kim Univ. Calgary, Canada
10:15h	Gas Identification by Parameter Extraction from Nanomechanical Sensing Signals	Gaku Imamura NIMS, Japan

10:30h – 10:50h	Coffee Break
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Session 9: Biosensing

Chair: Rupa Mukhopadhyay, IACS, India

10:50h	Ultrasensitive characterization of optical isomers and the impact of charge on mechanical signaling (Invited)	Joseph Ndieyira UCL, UK
11:20h	Rapid and sensitive detection of HIV using a hybrid mechanical and optoplasmonic sensor	Priscila M. Kosaka IMM-CSIC, Spain
11:35h	Study of BRAF mutations in biopsies of malignant melanoma	François Huber Univ. Basel, Switzerland
11:50h	Life detection using nanomechanical sensors	Sandor Kasas EPFL, Switzerland
12:05h	Micro-rheological diagnostic of blood clot formation	Francesco Padovani CRANN, Ireland

12:05h – 13:10h	Lunch break
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Session 10: Fabrication

Chair: Igor Bargatin, University of Pennsylvania, USA

13:10h	Cantilevers comprising thermal sensors and integrated electrostatic actuation for thermal probe lithography (Invited)	Armin Knoll IBM Research–Zurich, Switzerland
13:40h	Sharp cutoff large scale nanoslit arrays for nano filtration	Margherita Bassu MPI-BPC, Germany
13:55h	Flexible membrane sensor for an opto-mechanical force transducer	Ronald Stoute TU Delft, Netherlands
14:10h	Helium-ion-beam-induced growth of 3-dimensional AFM probes	Paul Alkemade TU Delft, Netherlands
14:25h	Micromechanical Pyrolytic Carbon String Resonators	Maksymilian Kurek DTU, Denmark

14:40h – 15:00h	Coffee break
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Session 11: Novel Devices

Chair: Armin Knoll, IBM Research–Zurich, Switzerland

15:00h	Plate mechanical metamaterials (Invited)	Igor Bargatin Univ. Pennsylvania, USA
15:30h	Two-dimensional electron gas as a piezoelectric sensor of nanomechanical motion	Andrey Shevyrin RISP, Russia
15:45h	Simple fabrication process of organic piezoelectric resonators: Application to viscosity measurements	Pierre-Henri Ducrot Univ. Bordeaux, France
16:00h	High Throughput Atomic Force Microscope for Self-Assembled Monolayers Metrology and defect inspection	Rutger Thijssen TNO, Netherlands

Session 12: Panel Discussion

Moderator(s): Organizers

16:20h – 16:45h	Opportunities, challenges and future scope for nanomechanical sensing	Panel members
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16:45	Best Presentation and Best Poster award ceremony
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17:00h	Workshop Close
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POSTERS

ID	Title	Affiliation
4	CMOS integrated cantilevers for mass sensing and synchronization	Francesc Torres UAB, Spain
16	Nanomechanical sensing of miRNA as a biomarker for cancer using mirco-cantilever arrays.	James Duffy CRANN, Ireland
21	A partially wetttable micromechanical resonator for in situ biosensing in dissipative media	Phil Peiker Univ. Kaiserslauten, Germany
22	A 16-Microcantilever Array Sensing System for the Rapid and Simultaneous Detection of Analyte	Luc Beaulieu Memorial Univ., Canada
25	Nanodiagnostics: Early detection of breath- and cancer markers by piezoelectric nanomechanical sensors	Ruud Univ. Twente, Netherlands
26	Highly sensitive measurement of liquid density in air using suspended microcapillary resonator	Oscar Malvar IMM-CSIC, Spain
27	Tapered Silicon Nanowire: Mechanical and Optical Characterization	Oscar Malvar IMM-CSIC, Spain
31	Controlled buckling of graphene nanomechanical resonators	Samer Hourii TU Delft, Netherlands
38	Stiffness in nanomechanical spectrometry	Jose Jaime Ruz IMM-CSIC, Spain
41	Flow detection in a highly sensitive PDMS suspended 3D microchannel without external exciter	Muthukumaran Packirisamy Concordia Univ, Canada
42	Nanomechanical Detection of the Proteolytic Activity of Matrix Metalloproteinases for Cancer Diagnosis	Kilho Eom Sungkyunkwan Univ, Korea
44	Active Cantilever for a Field Emission Scanning Probe Lithography	Marcus Kaestner TU Ilmenau, Germany
46	Membrane Based Surface-Stress Sensors: Sensitivity, Reliability, Precision and Accuracy.	Banafsheh Sajadi TU Delft, Netherlands
52	Contact mechanics modeling of tip-sample interaction in atomic force microscopy of complex layered subsurface media	Daniele.Piras TNO, Netherlands
53	All-polymer microelectrode fabrication via high-throughput soft embossing	Paola Fanzio TU Delft, Netherlands
54	Ultrathin Polymer Wire-Suspended Quartz Tuning Fork for Gas Sensor Application	Wuseok Kim POSTECH, Korea
56	Packaging Technique of Micro Cantilever for Magnetic Force Sensing	Masaya Toda Tohoku Univ., Japan
57	Quattro-Cantilever Array: Large Area and High Speed Scanning Probe Imaging and Nanolithography	Ahmad Ahmad TU Ilmenau, Germany
59	Hydrogel formation assessment through nanomechanical IR spectroscopy	Andrea Casci Ceccacci DTU, Denmark
61	AFM Cantilevers for scanning magnetoresistance applications	Margaret Costa IINL, Portugal
64	On the Role of Adsorbate Position, Geometry, and Binding Characteristics on the Multi-Modal Response of Cantilever-Based Resonators for Higher-Order Discrete-Mass Detection	Pierre-Henri Ducrot Univ. of Bordeaux, France
65	Study of Anisotropic Effect in Piezoresistive Property of Graphene using Band Counting Approach	Abhinaba Sinha IIT-Bombay, India
67	Electrical and Mechanical Characterization of Magnetic (La,Sr)MnO3 Free-standing Microbridges	Federico Remaggi Univ. Genoa, Italy
68	Simultaneous characterization of multi-cantilevers in static and dynamic modes with digital holographic microscopy	Marjan Zakerin Max Planck, Germany
70	Fabrication of porous nanostring for ultrasensitive nanomechanical resonator biosensors	Wei Zheng Univ. Alberta, Canada
77	Nanomechanical hydrogen sensor with low temperature ITO for strain transduction	V.Seena IISST, India
79	Nanomechanical Sensor System for Characterizing Nanoparticle Pollution	Ezgi Orhan Bilkent Univ., Turkey
80	Method for contactless mechanical characterization of 2D materials	Dejan Davidovikj TU Delft, Netherlands
83	Next Generation Membrane Surface Stress Sensors for Characterization of Volatiles	Hans Peter Lang Univ. Basel, Switzerland
84	Aluminum Nitride Nanomechanical Sensors based on Atomic Layer Deposition	Levent Aslanbas Bilkent Univ, Turkey

85	Chemical functionalization of nanomechanical sensors with vacuum thermal evaporation	M. Cagatay Karakan Bilkent Univ., Turkey
86	Nonlinearity in graphene-nanoelectromechanical systems	Madhav Kumar Univ. Oxford, UK
87	Fabrication of silicon nitride membranes for inertial imaging in 2D	Hande Aydogmus Bilkent Univ., Turkey
89	An adaptive controller design for nonlinearity cancellation in NEMS	Mehmet Kelleci Bilkent Univ., Turkey
93	Nanomechanical CSWAP gate based on buckling logic	Selcuk Oguz Erbil Bilkent Univ., Turkey
96	Dispensing and aspirating with an AFM-femtopipette in fluids	Eleonoor Verlinden TU Delft, Netherlands
97	Influence of gas flow on the Young modulus of in-situ doped LPCVD polycrystalline SiC for MEMS applications	Aleksandar Jovic TU Delft, Netherlands
101	Micro contact printing for phase change GeTe nanowires	Nhlakanipho C. Mkhize Univ. Oxford, UK
102	Immersion AFM—quantifying the benefit of large damping for AFM cantilevers	Maarten H. van Es TNO, Netherlands
103	Comparison between sample and cantilever excitation in contact resonance atomic force microscopy: experimental and theoretical approach	Maarten van Es TNO, Netherlands
105	Acoustic Force Spectroscopy	Gerrit Sitters LUMICKS, Netherlands
109	Dynamic response of the AFM cantilever as a high resolution distance sensor	Klara Maturova TNO, Netherlands
110	Quantitative measurement of tip-sample interaction forces in tapping mode atomic force microscopy	Mehmet Selman Tamer TU Delft, Netherlands
111	META-INSTRUMENT: An opto-mechanical platform for imaging near-field optical instruments	Roy Bijster TU Delft, Netherlands
112	Towards an effective reduction of intensity noise in laser diodes	Roy Bijster TU Delft, Netherlands
113	Harnessing variations in Young's Modulus of ssDNA and dsDNA monolayers for gene-based detection of drug resistant pathogens	Carmen M. Domínguez CNM-CSIC, Spain
114	Towards Force Detection with a Levitated Nanoparticle in the Non-Linear Regime	Francesco Ricci ICFO, Spain

List of participants

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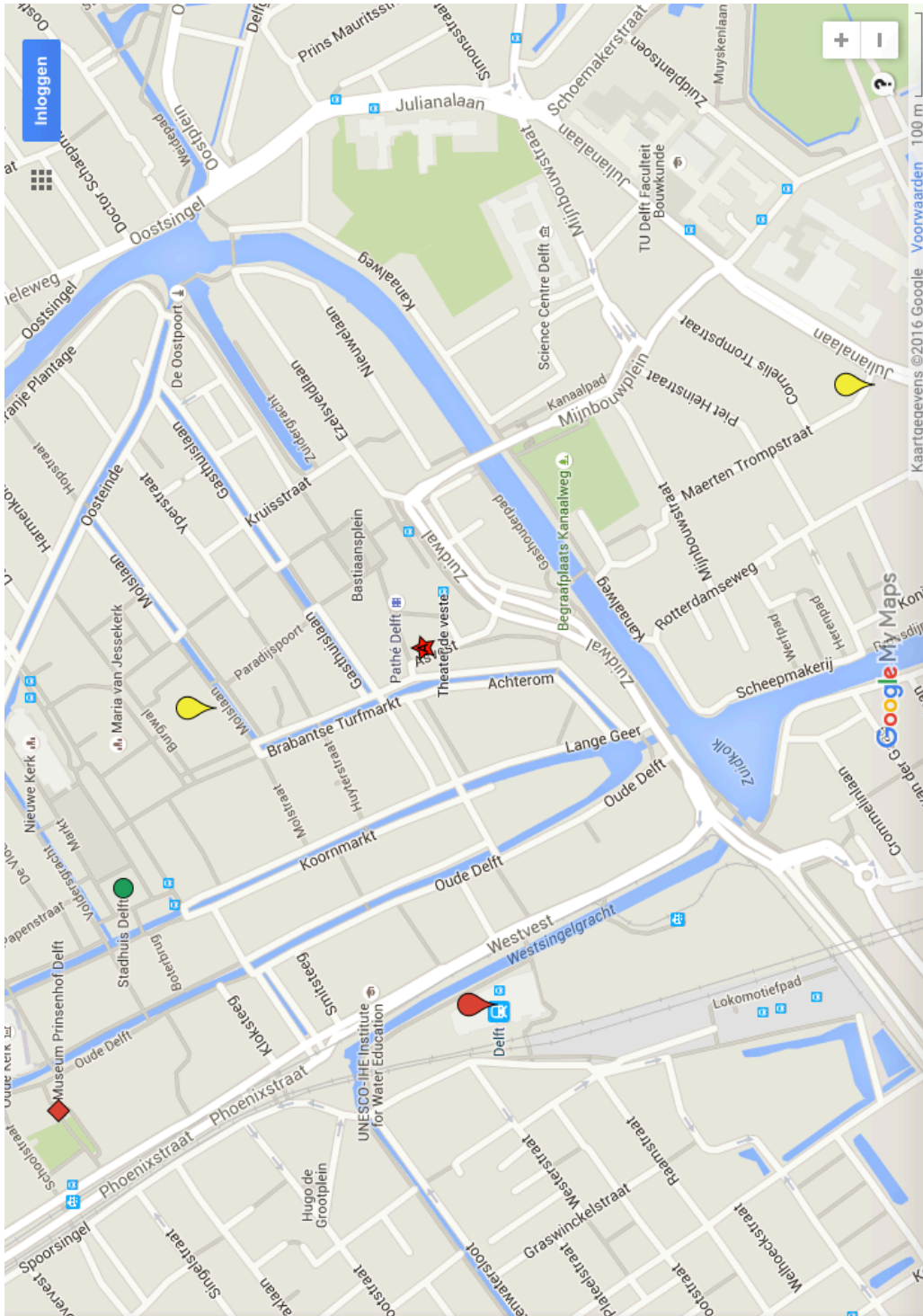
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Map – Meeting Venue Area

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