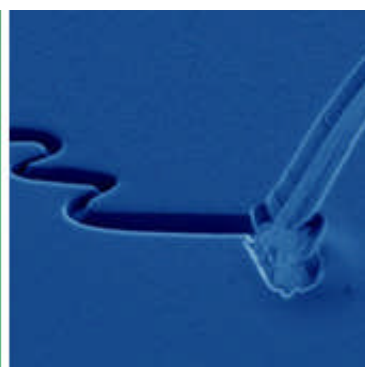
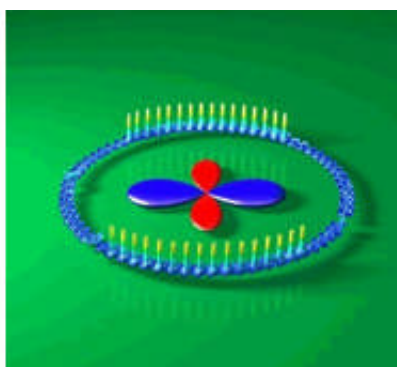
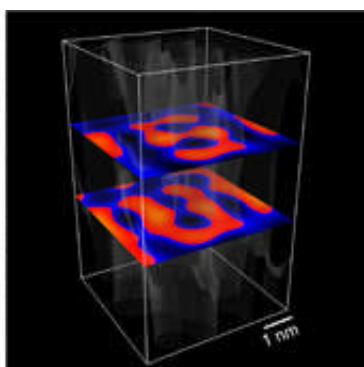
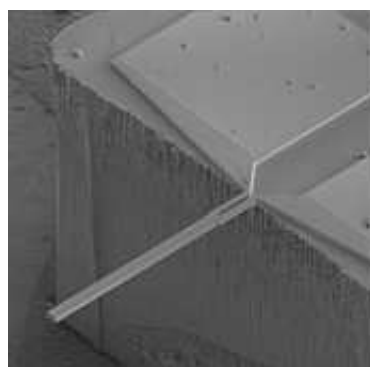


NMC 201310th INTERNATIONAL
WORKSHOP ON
NANOMECHANICAL
SENSING

Stanford, California 1-3 May 2013

[Welcome](#)[General Info](#)[Program](#)[Abstracts / Authors](#)[Commercial Support](#)[Registration](#)[Venue / Location](#)[Contact](#)**Program**[Speakers](#)[Preliminary Program](#)[Bruker Seeing at the
Nanoscale Workshop](#)
April 30, 2013**WEDNESDAY, MAY 1, 2013**

07:45	REGISTRATION & CHECK-IN
08:30 - 08:45	WELCOME - Workshop Chair: Beth Pruitt
	Session 1 - Innovations in Design and Fabrication
08:45 - 09:30	Keynote Speaker Lina Sarro, <i>Delft University of Technology, THE NETHERLANDS</i> MICRO/NANO SENSORS FOR BIO-CHEMICAL APPLICATIONS: INTEGRATION CHALLENGES AND OPPORTUNITIES
09:30 - 10:25	Podium Presentations
10:25 - 10:45	BREAK & EXHIBIT INSPECTION
	Session 2 - Improved Models for Nanomechanical Design
10:45 - 11:15	Invited Speaker Srikar Vengallatore, <i>McGill University, CANADA</i> DISSIPATION IN NANOMECHANICAL STRUCTURES: MEASUREMENT, MECHANISMS, AND MODELS
11:15 - 12:30	Podium Presentations
12:30 - 13:30	LUNCH & EXHIBIT INSPECTION
	Session 3 - New Surfaces for Chemical Sensing
13:30 - 14:00	Invited Speaker Peter Hesketh, <i>Georgia Institute of Technology, USA</i> MICROCANTILEVER SENSORS WITH METAL ORGANIC FRAMEWORK (MOF) COATINGS FOR DETECTION OF VOCs
14:00 - 15:15	Podium Presentations
15:15 - 15:35	BREAK & EXHIBIT INSPECTION
	Session 4 - Novel Nanomechanical Assays and Platforms
15:35 - 16:05	Invited Speaker Toda Masada, <i>Tohoku University, JAPAN</i> CANTILEVERS FOR NANOSENSING: CALORIMETRY FOR A LIVING CELL
16:05 - 17:20	Podium Presentations
17:30 - 22:00	Wine Tasting Reception and Banquet - Stanford Faculty Club

THURSDAY, MAY 2, 2013

07:45	REGISTRATION & CHECK-IN
	Session 5 - Novel Materials and Characterization
08:45 - 09:30	Keynote Speaker Paul McEuen, <i>Cornell University, USA</i> GRAPHENE AND NANOTUBE NEMS
09:30 - 10:25	Podium Presentations
10:25 - 10:45	BREAK & EXHIBIT INSPECTION
	Session 6 - Coupled Mode Nanomechanical Sensing
10:45 - 11:15	Invited Speaker Eva Weig, <i>University of Konstanz, GERMANY</i> INTEGRATED TRANSDUCTION AND Q-FACTOR CONTROL OF NANOMECHANICAL RESONATORS
11:15 - 12:30	Podium Presentations
12:30 - 13:30	LUNCH & EXHIBIT INSPECTION
	Session 7 - Cantilever Sensing Applications
13:30 - 14:00	Invited Speaker Keith Schwab, <i>California Institute of Technology, USA</i> COOLING AND SENSING MOTION AT QUANTUM LIMITS: STATUS, LIMITATIONS, WAYS FORWARD
14:00 - 15:15	Podium Presentations
15:15 - 15:35	BREAK & EXHIBIT INSPECTION
	Session 8 - Probing Biology
15:35 - 16:05	Invited Speaker Nick Melosh, <i>Stanford University, USA</i>

15:30 - 16:00	AFM FOR MEASURING ENERGETICS AND DYNAMICS OF BIO-MEMBRANE ACTIVE MOLECULES
16:05 - 17:20	Podium Presentations
17:30 - 19:45	Poster Session & Reception Sponsored by Bruker "Seeing at the Nanoscale"

FRIDAY, MAY 3, 2013

08:00	REGISTRATION & CHECK-IN
08:15 - 08:35	NSF Presentation Massood Tabib-Azar, <i>National Science Foundation (NSF), USA</i> OUTLOOK AND FUNDING OPPORTUNITIES FOR NANOMECHANICAL SENSING
	Session 9 - Integrated Probes for Nanomechanical Sensing
08:45 - 09:15	Invited Speaker Juergen Brugger, <i>Ecole Polytechnique Fédérale de Lausanne (EPFL), SWITZERLAND</i> MICRO-AND NANO-ENGINEERED CANTILVERS WITH NEW MATERIALS AND FUNCTIONALITIES
09:15 - 10:10	Podium Presentations
10:10 - 10:30	BREAK & EXHIBIT INSPECTION
	Session 10 - Chemical Sensing
10:30 - 11:00	Invited Speaker Al Loui, <i>Lawrence Livermore National Laboratory, USA</i> EXPLORING METHODS FOR SELECTIVE, NON-SPECTROSCOPIC GAS DETECTION
11:00 - 11:36	Podium Presentations
11:36 - 11:45	Introduction of NMC 2014 and Lunch Discussion Instructions Beth Pruitt and Javier Tamayo
11:45 - 12:30	Keynote Speaker Ted Zellers, <i>University of Michigan, USA</i> CHALLENGES FOR VOC SENSING
12:30 - 13:30	LUNCH & EXHIBIT INSPECTION
	Session 11 - Cantilever Based Metrologies
13:30 - 14:00	Invited Speaker Gordie Shaw, <i>National Institute of Standards & Technology, USA</i> SMALL FORCE METROLOGY FOR SINGLE MOLECULE AND SINGLE ATOM MECHANICAL MEASUREMENT
14:00 - 15:00	Podium Presentations
15:00	NMC 2013 Workshop Adjourns

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15:10	Group I
15:40	Group II