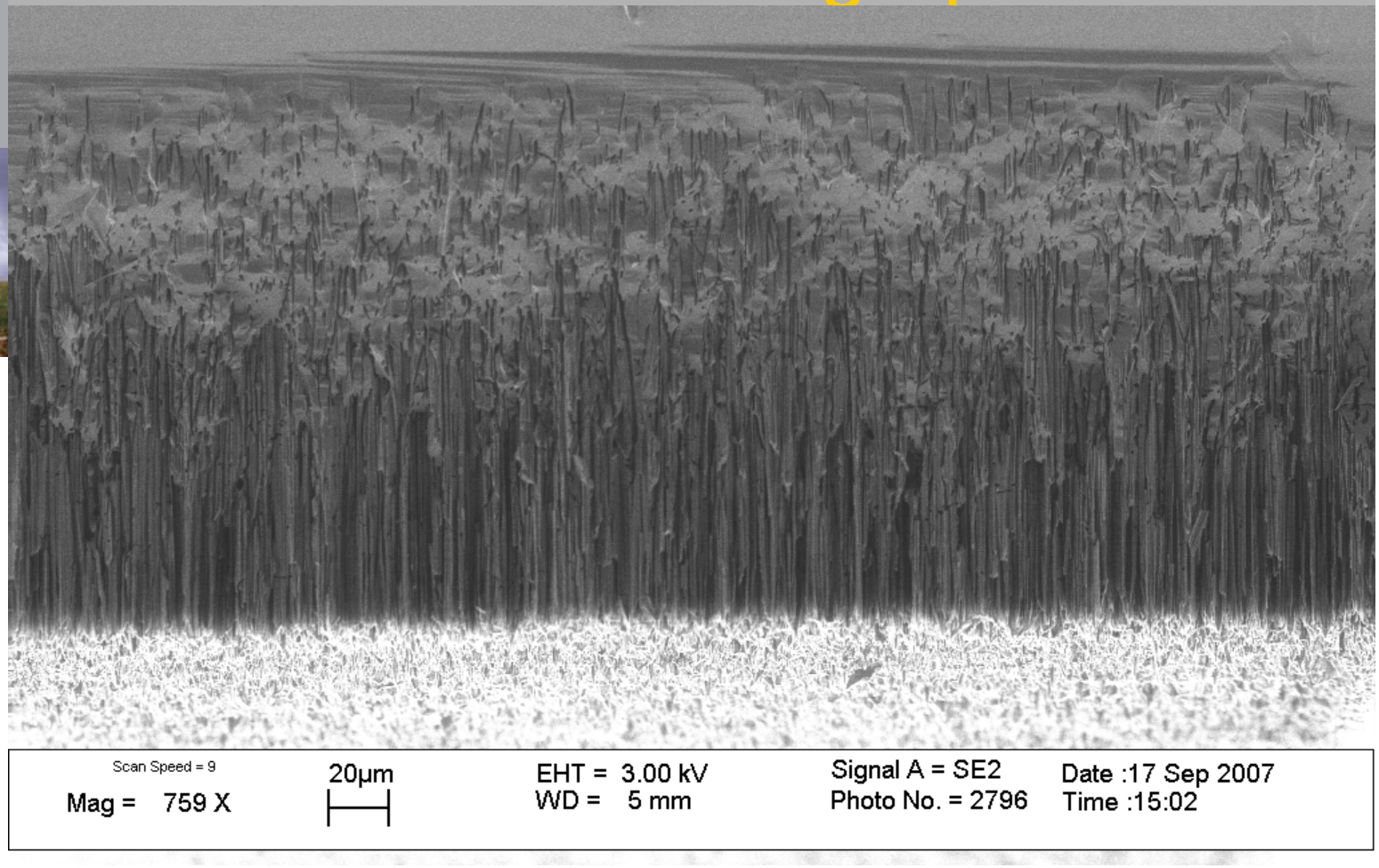
2007 micro & nano - graph Contest



micro & nano - graph Title:

Forest in the mist in the afternoon in autumn in Aix en Provence

Description: Cross sectional image of porous silicon formed on single crystal silicon by metal-assisted catalytic reaction. The image has been taken rotating the image 180 degrees.

Magnification: 759 X

Submitted by: Jordi Teva

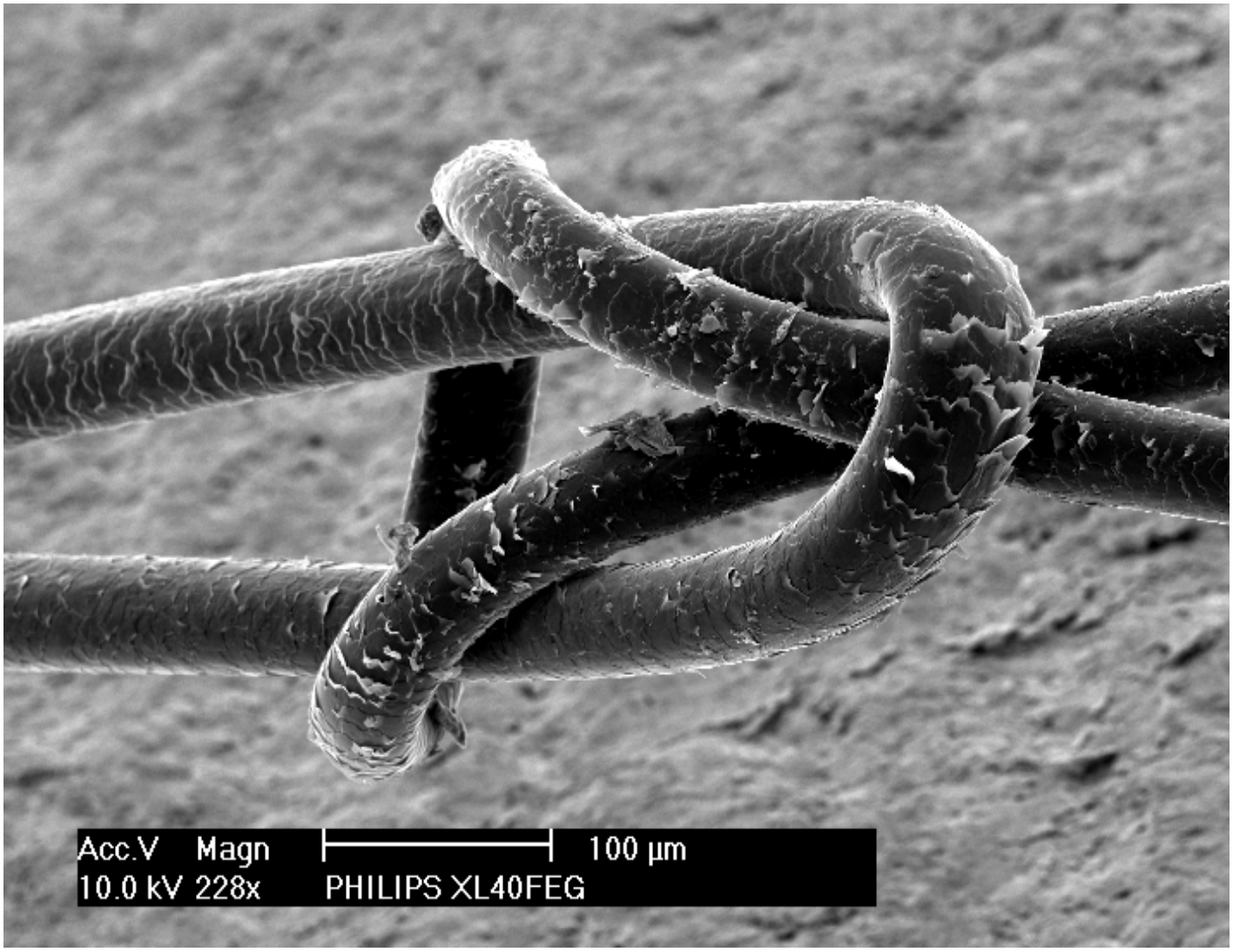
Instrument: LEO 1550 Scanning Electron Microscope

Affiliation: MIC- Department of Micro and Nanotechnology, DTU , Denmark

2007 micro & nano - graph Contest

micro & nano - graph
Title: **Square knot**

Tongue Twister



Magnification: 228 X

Submitted by: Frans Holthuysen

Instrument: Philips XL40FEG

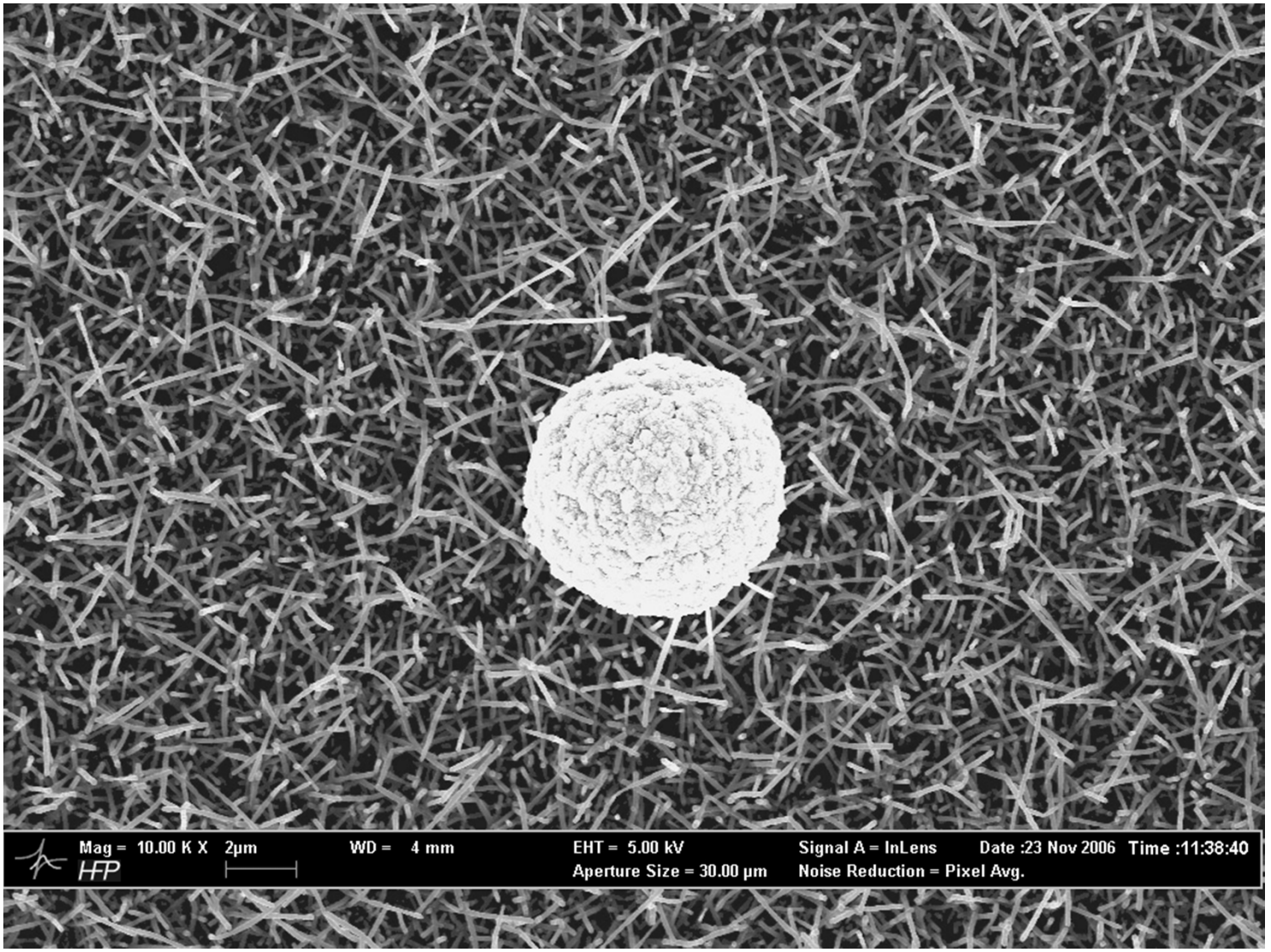
Affiliation: Philips Research labs Eindhoven The Netherlands

2007 micro & nano - graph Contest

micro & nano - graph Title:

Looking for Your Golf Ball?

Description:
SEM image: The grass consists of carbon nano rods made with CVD, the golf ball is a spherical contamination of unknown origin.



Magnification: 10k X

Instrument: LEO SUPRA GEMINI SEM

Submitted by: Wolfgang Schwinger

Affiliation: Profactor GmbH and University of Linz, Institute of Semiconductor and Solid State Physics

2007 micro & nano - graph Contest

micro & nano - graph Title:

Hoakie Cartoon in the Nano Kelp Bed

Description:
An unexpected diver enters the world of carbon nanotubes.

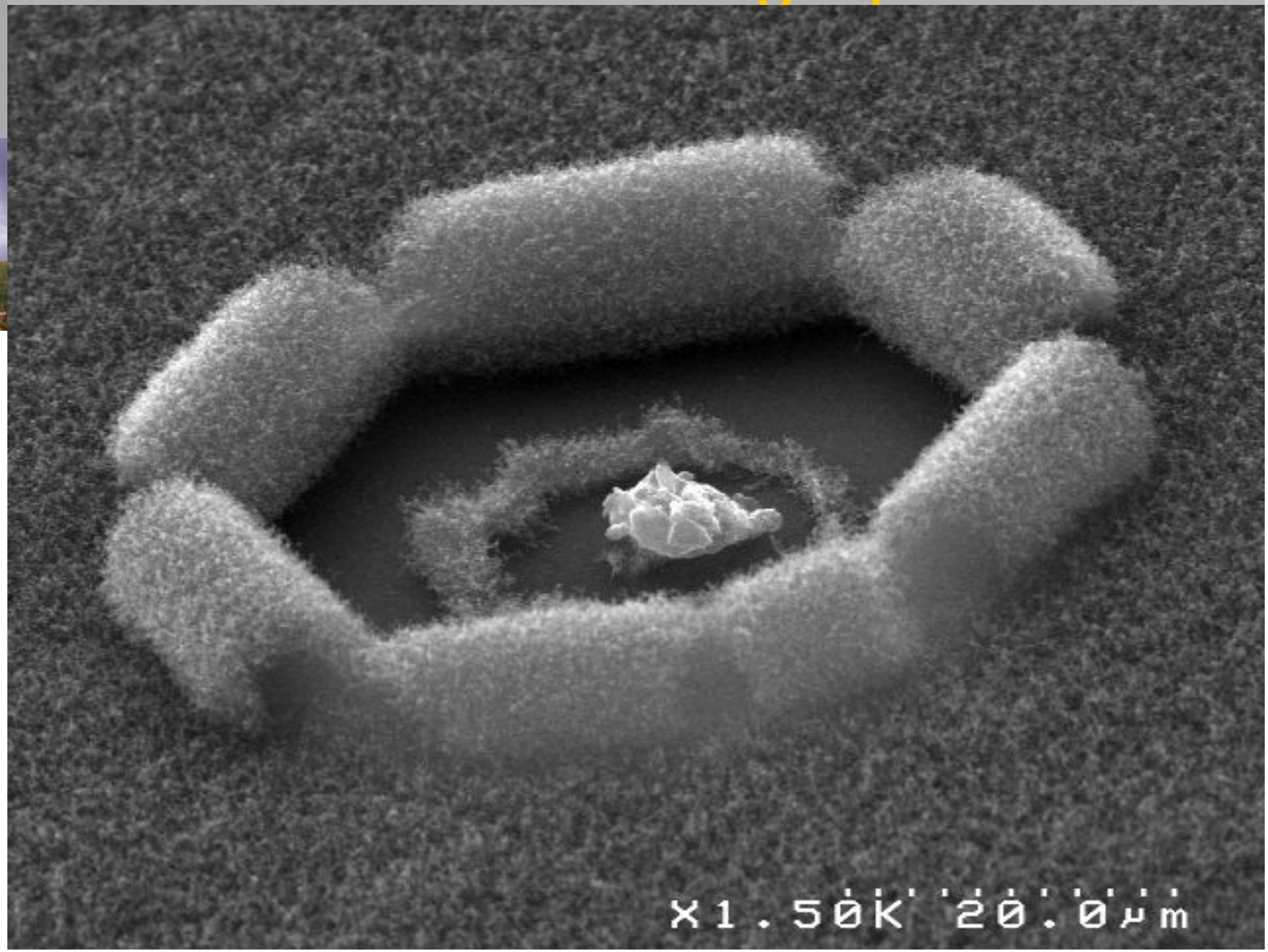
Magnification: 14067x

Instrument: Philips XL 30

Submitted by: Michael Häffner

Affiliation: University of Tuebingen

2007 micro & nano - graph Contest



micro & nano - graph Title:

Fuzzy Rose

Description:
Carbon nanotube carpet. The anisotropic dewetting of a catalyst film leads to the formation of rings with different height.

Magnification: 1.50 k X

Instrument: SEM Hitashi P5000

Submitted by: Jean-christophe Coiffic & Didier LOUIS

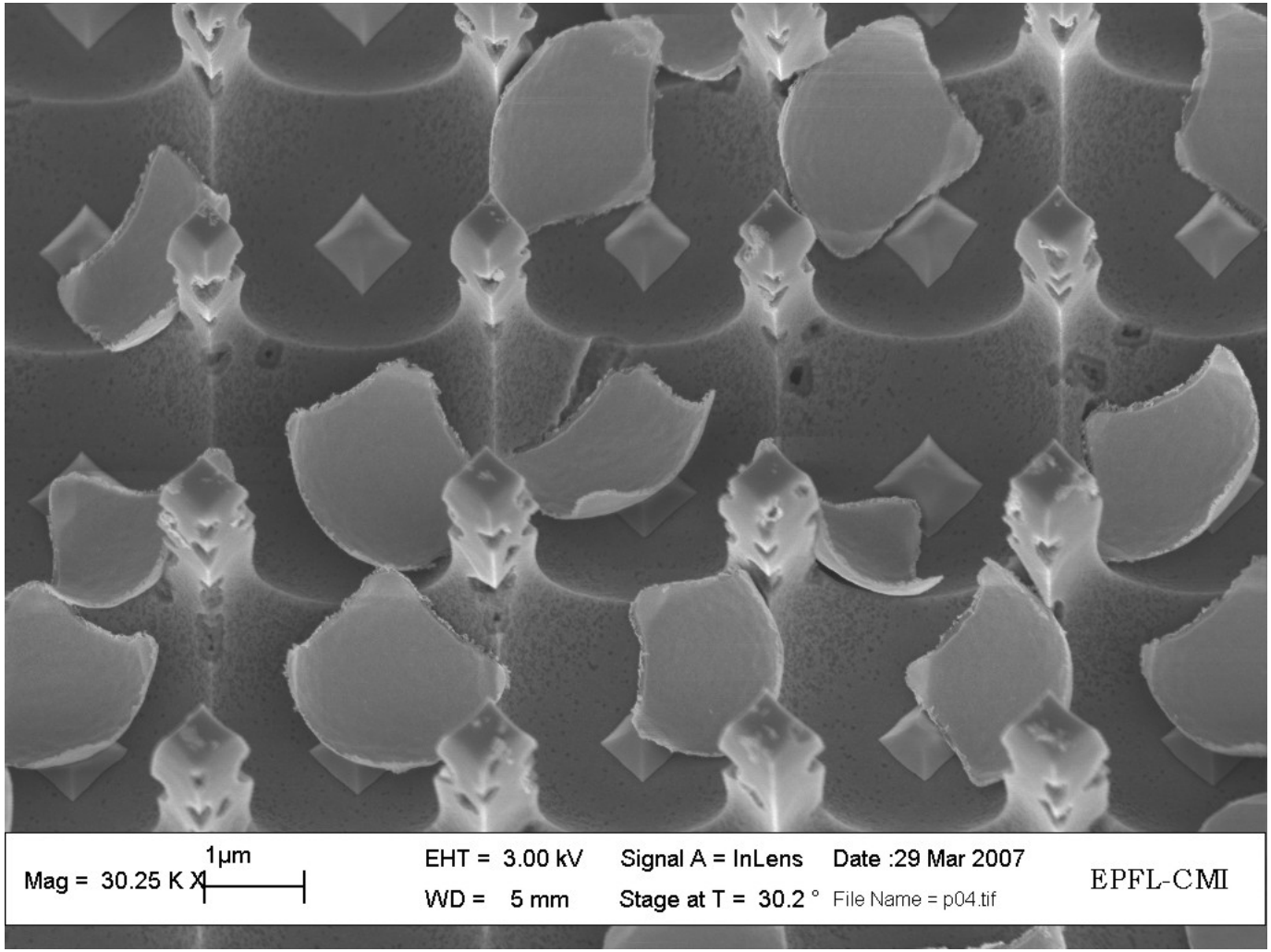
Affiliation: CEA / Leti Grenoble France

2007 micro & nano - graph Contest

micro & nano - graph Title:

Walking on Egg Shells

Description:
Metal island array separated by silicon pillars, lifted off by chemical wet etching.



Magnification: 30.25 K X

Instrument: Zeiss LEO 1550

Submitted by: Thomas Kiefer

Affiliation: LMIS 1, EPF Lausanne, Switzerland

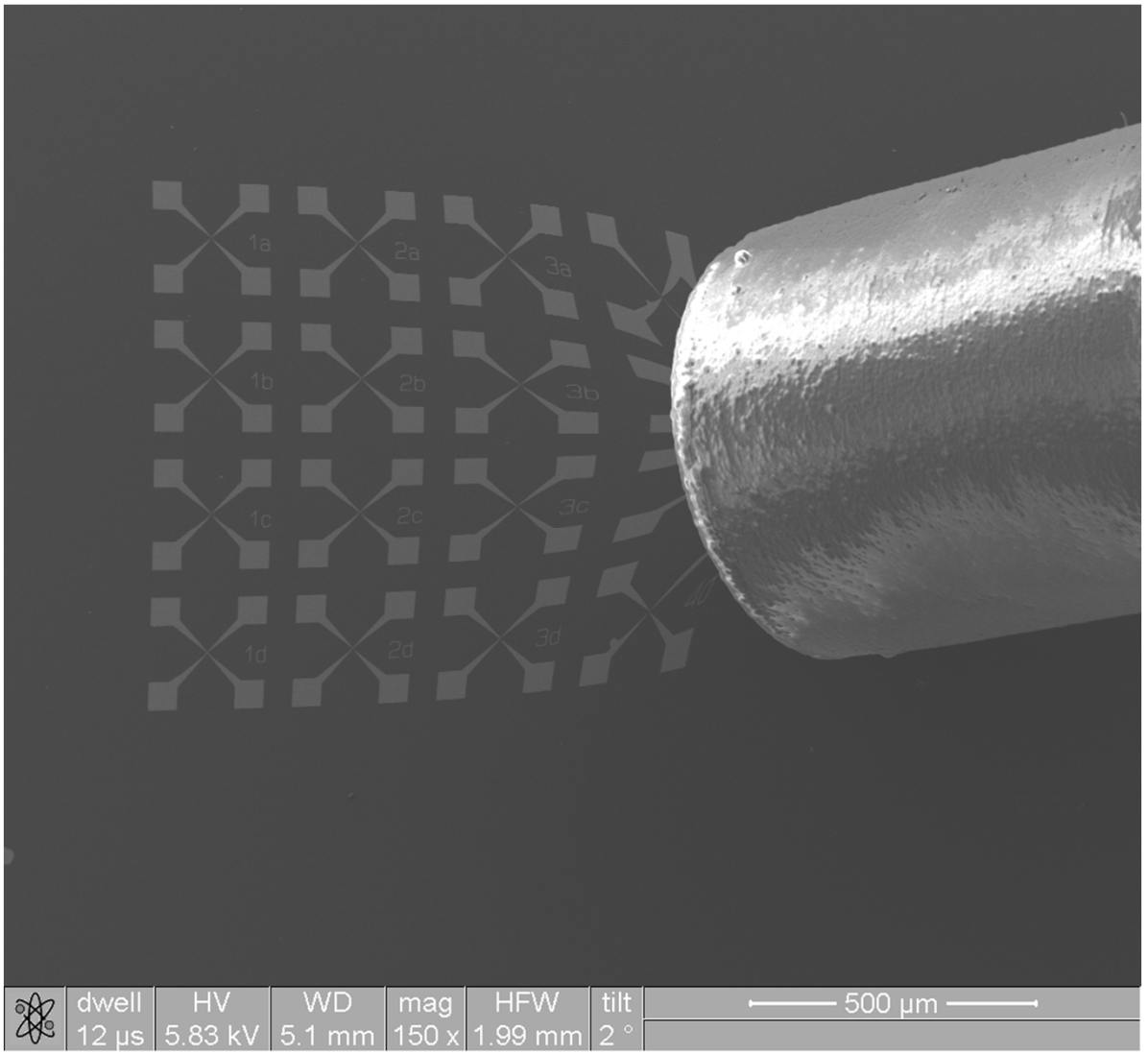
2007 micro & nano - graph Contest

3rd Prize

micro & nano - graph
Title:

Virtual Vacuum Cleaner
Sucking it up!

Description:
A 4 x 4 test array with 4 contact pads each is used for electron beam induced deposition (EBID) conductivity measurements.
Experimental conditions induced a thin insulating film on the gas supply needle shown on the right. As a result the needle charges up positively and distorts the image due to the high local fields as shown in the image.



Magnification: 150 X

Instrument: FEI Nova NanoSEM 200

Submitted by: Aurelien Botman

Affiliation: Philips Research Labs - Eindhoven

2007 micro & nano - graph Contest

2nd Prize

micro & nano - graph Title:

The Ruins of Damascene

Description:

The isolation material between the metal lines was etched away.

Magnification: 10.000 X

Submitted by: Frans Holthuysen

Instrument: Philips XL40FEG

Affiliation: Philips Research labs Eindhoven The Netherlands

2007 micro & nano - graph Contest

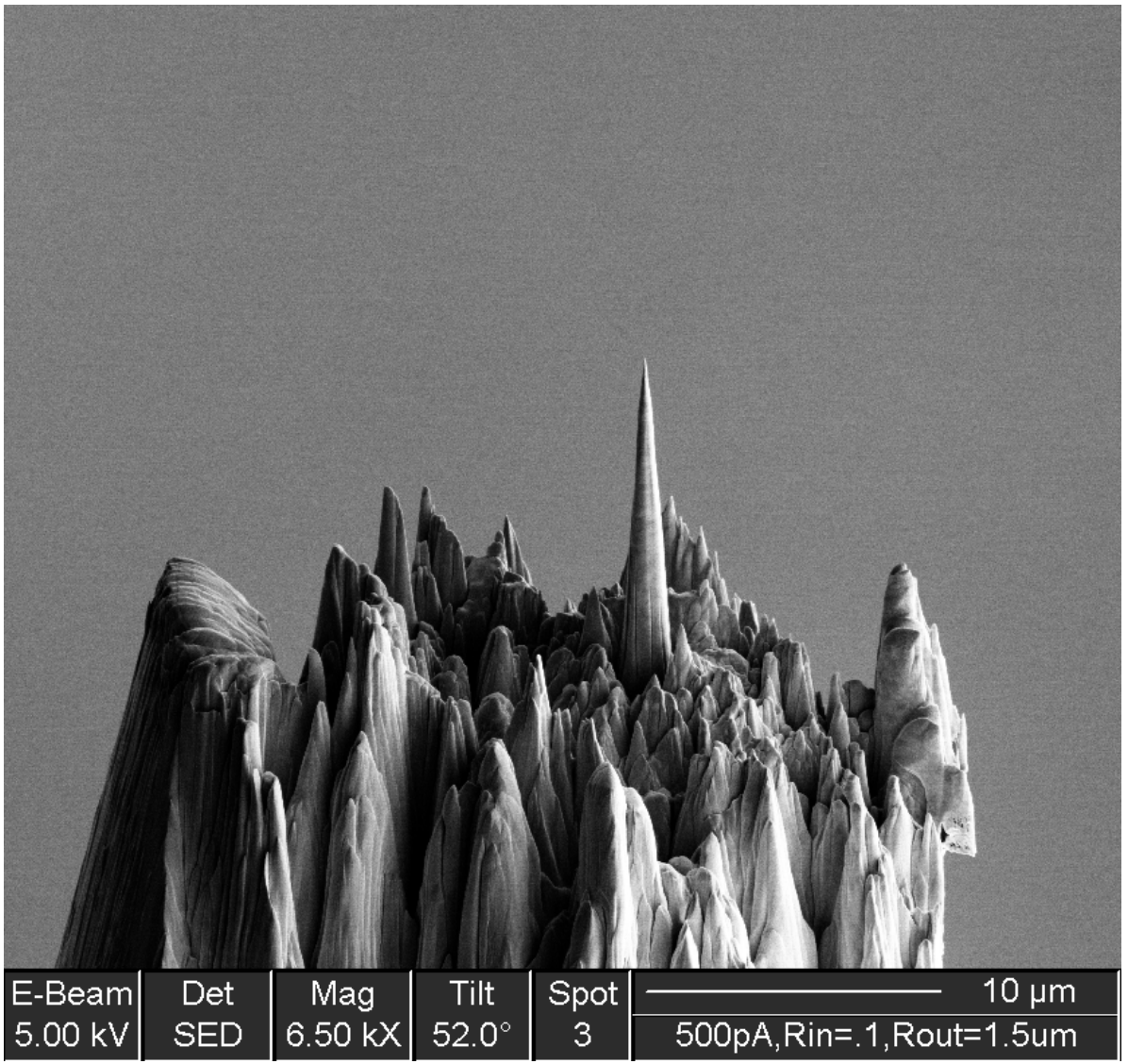
1st Prize

micro & nano - graph Title:

Hall of the Mountain King

Description:
Explain what we are looking at and how it came to be:

STM tungsten tip sharpened by FIB milling



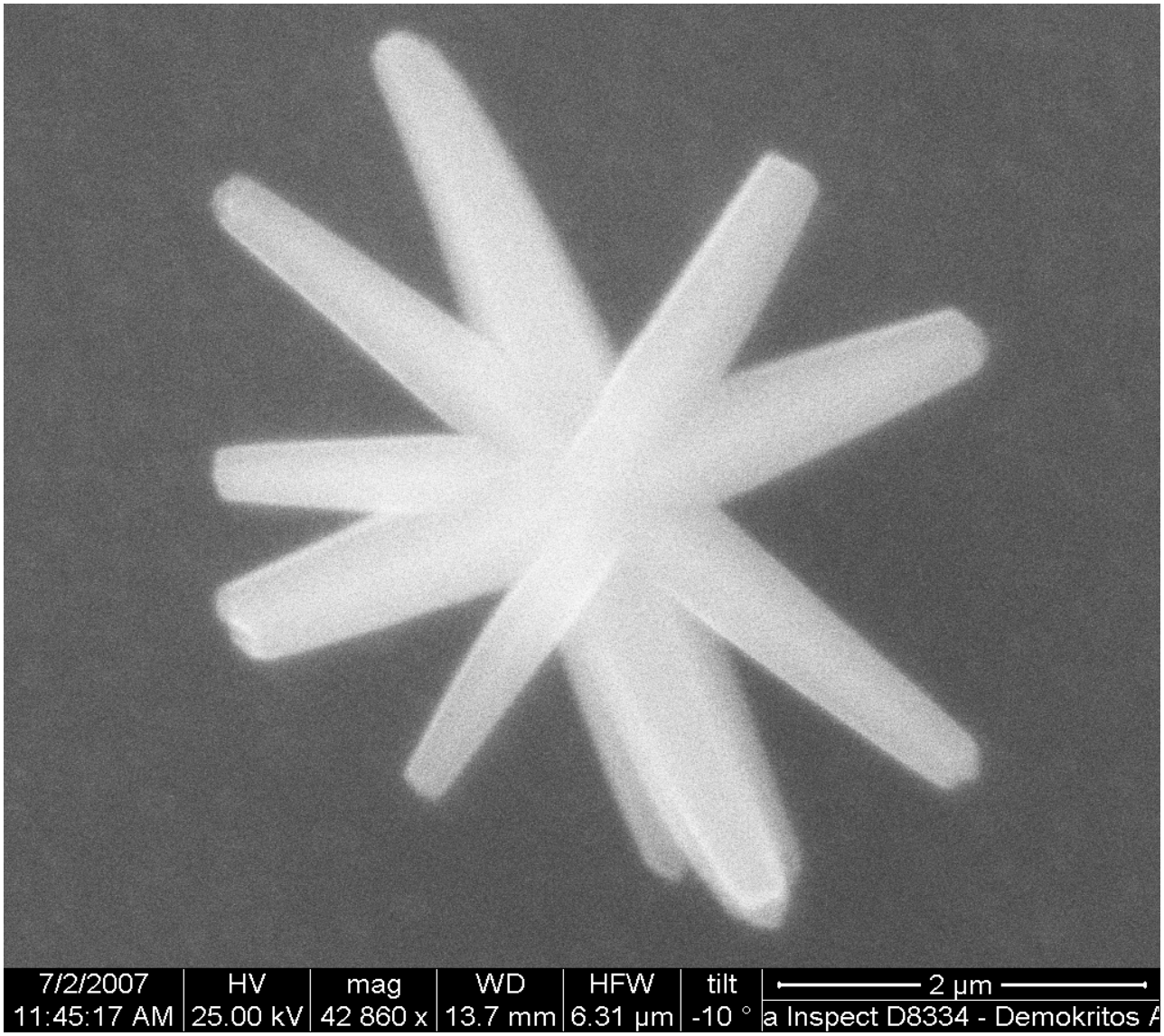
Magnification: 6.5 k X

Instrument: SEM (FEI Dual Beam 235M)

Submitted by: Gian Carlo Gazzadi

Affiliation: CNR – INFM S3, Modena, Italy

2007 micro & nano - graph Contest



micro & nano - graph Title:

ZnO Star

Description:
ZnO nanorods grown on ZnO seeding layer atop Si via a low-T hydrothermal process

Magnification: 42.86k X

Instrument: LEO 440

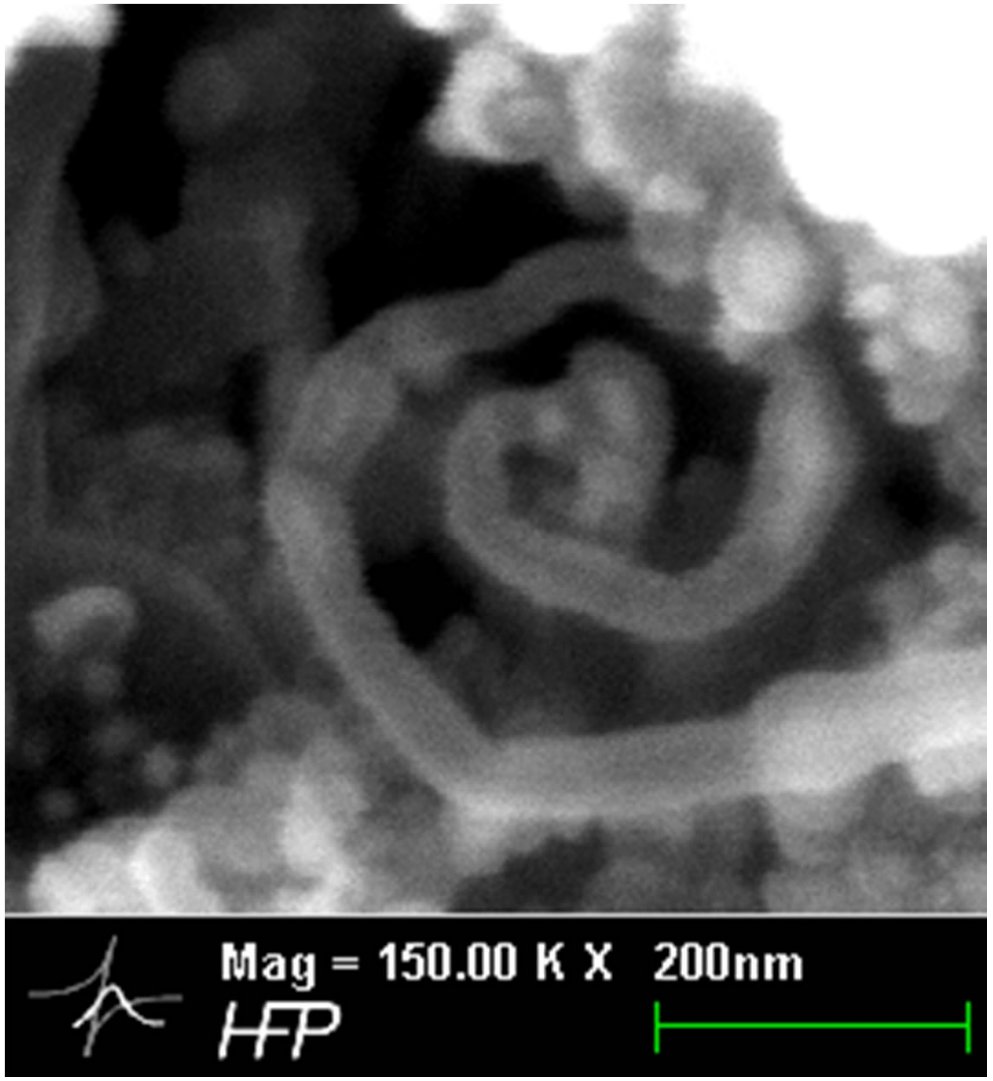
Submitted by: Eleni Makarona

Affiliation: Institute of Microelectronics, NCSR “Demokritos”

2007 micro & nano - graph Contest

micro & nano - graph Title:

Nano @



Description:
SEM image of a carbon nano fiber with the shape of an @

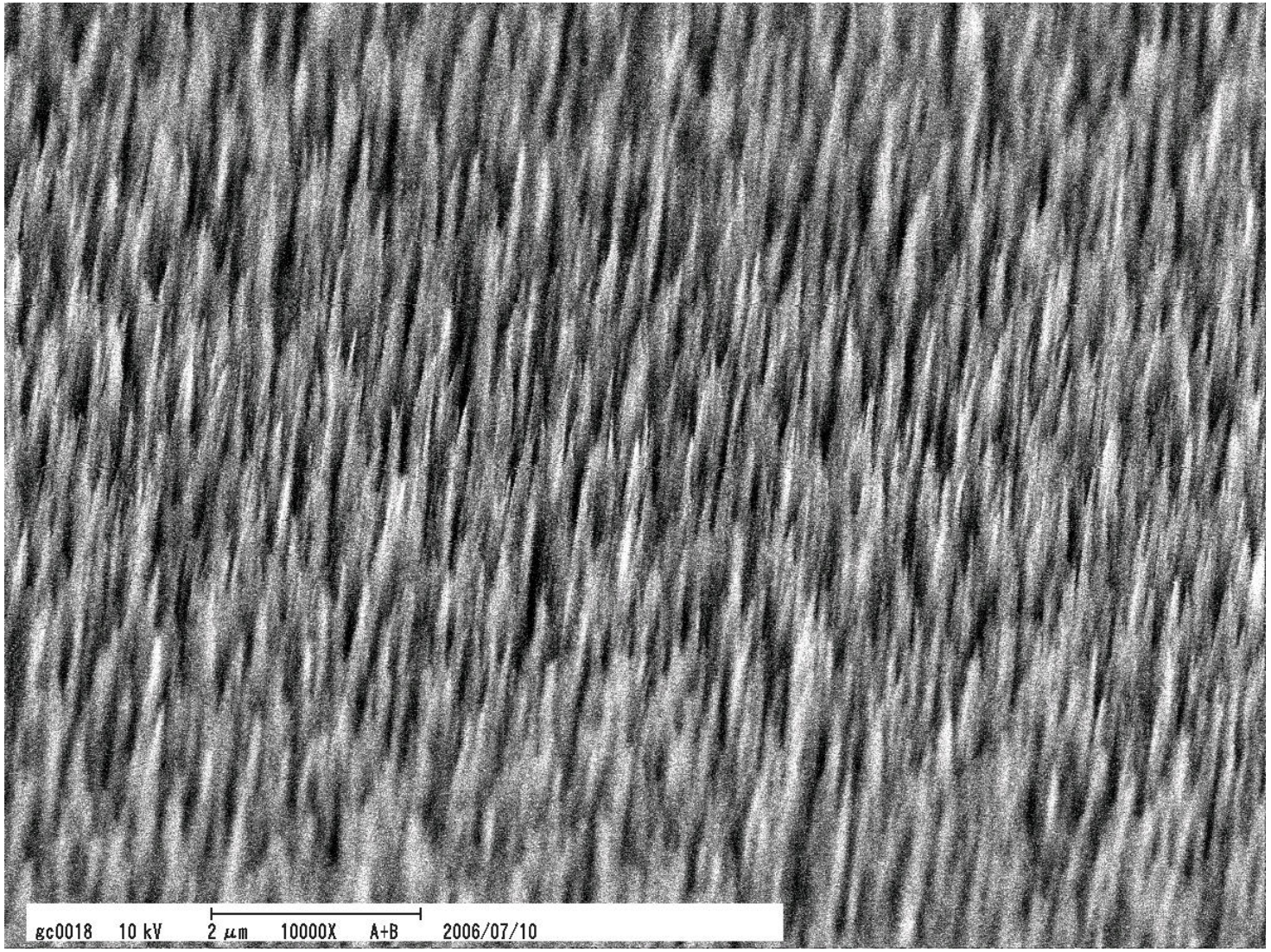
Magnification: 150k X

Submitted by: Wolfgang Schwinger

Instrument: LEO SUPRA GEMINI SEM

Affiliation: Profactor GmbH and University of Linz, Institute of Semiconductor and Solid State Physics

2007 micro & nano - graph Contest



micro & nano - graph Title:

Nano Turf

Description:
Glassy carbon surface, after oxygen dry etching.

Observation angle is 75 °

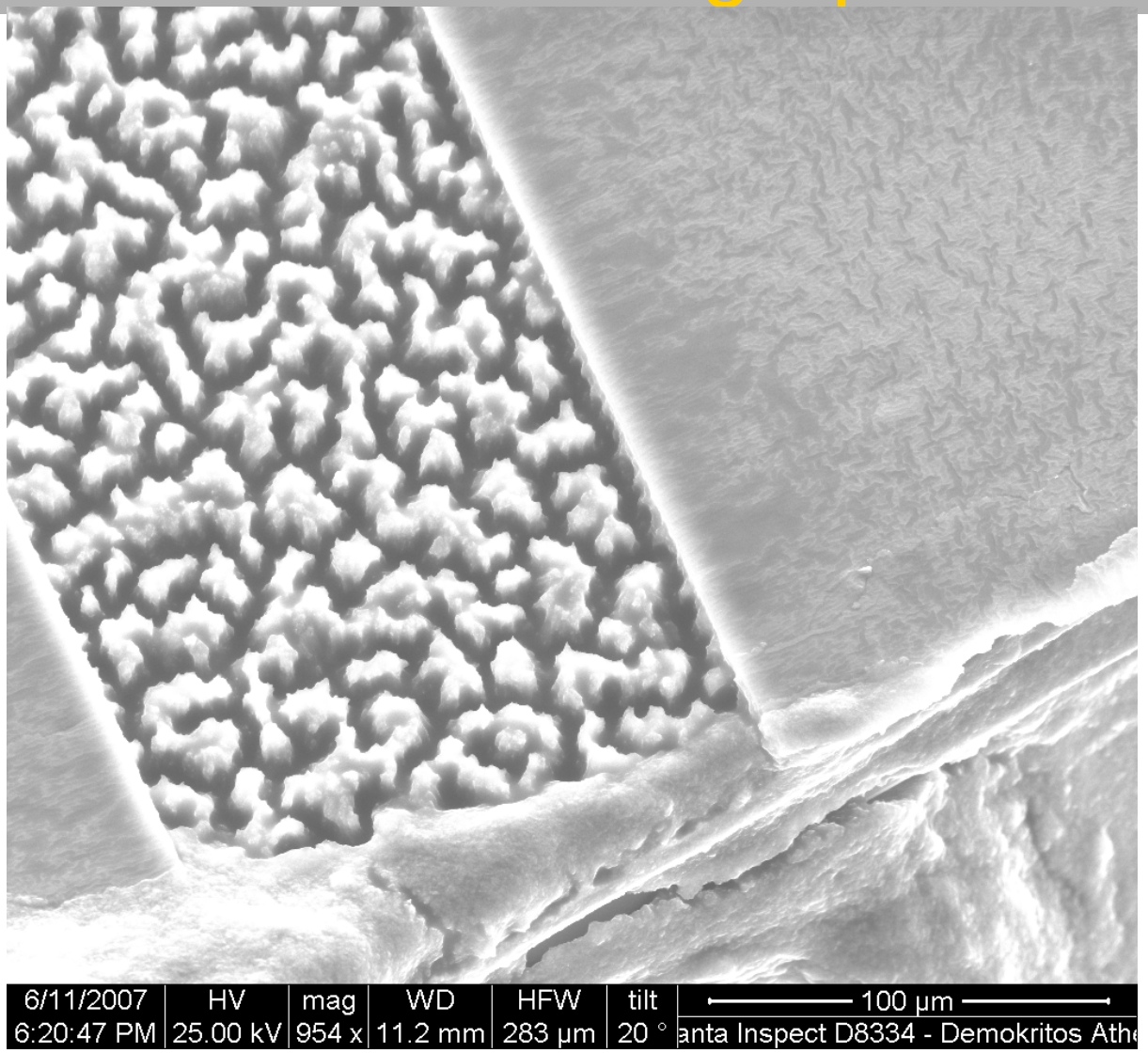
Magnification: 10 k X

Submitted by: Jun Taniguchi

Instrument: SEM ERA-8800FE (ELIONIX)

Affiliation: Tokyo University of Science, Japan

2007 micro & nano - graph Contest



micro & nano - graph Title:

A road with frozen trees

Description:
Dry-etched polymer region with plasma-induced roughness

Magnification: 954 X

Instrument: SEM

Submitted by:Angeliki Tserepi

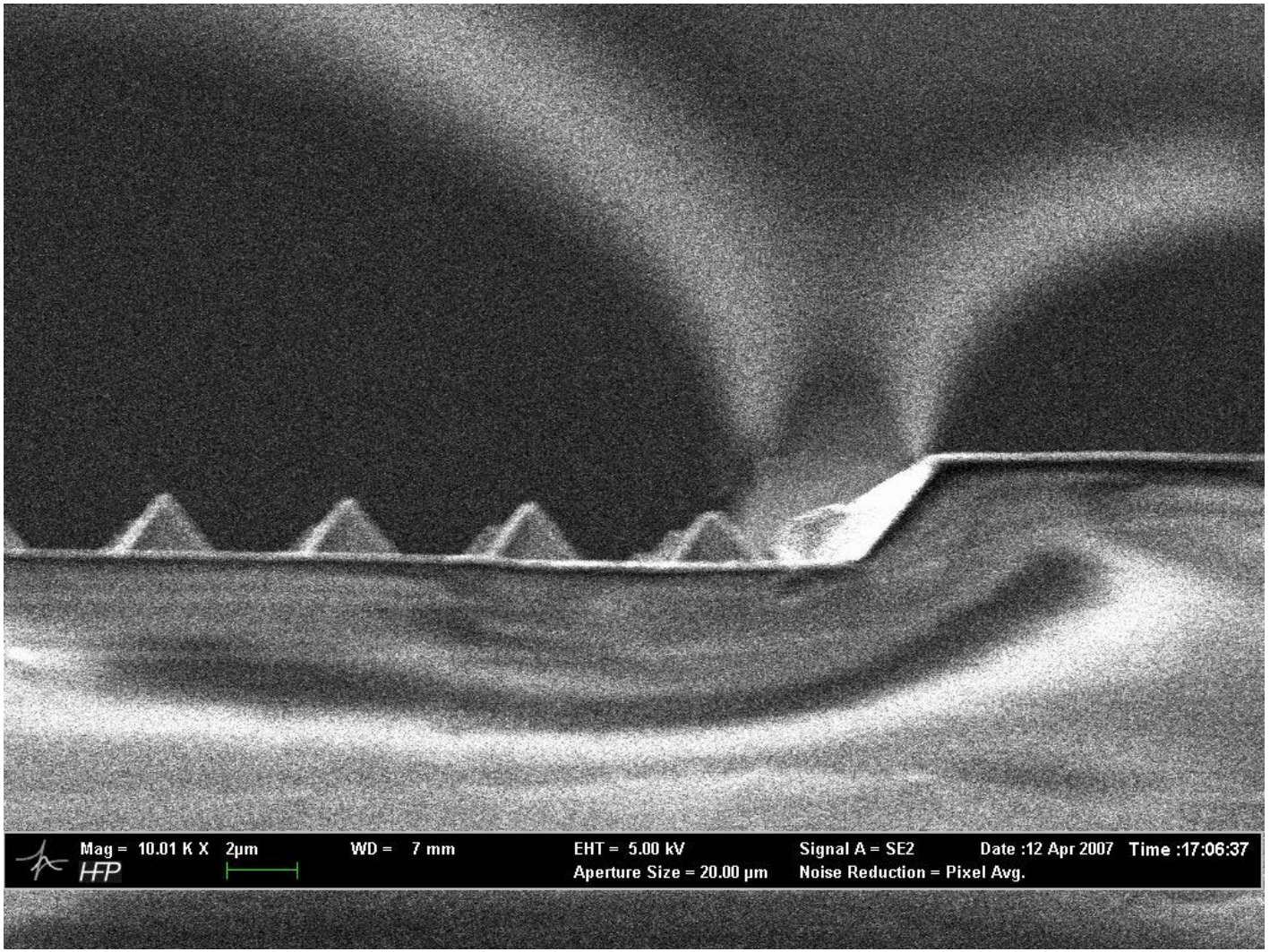
Affiliation: NCSR "Demokritos" Institute of Microelectronics, Greece

2007 micro & nano - graph Contest

micro & nano - graph Title:

Sand Storm over the Pyramids of Nano

Description:
SEM image of a PDMS stamp cast from an anisotropically etched silicon master



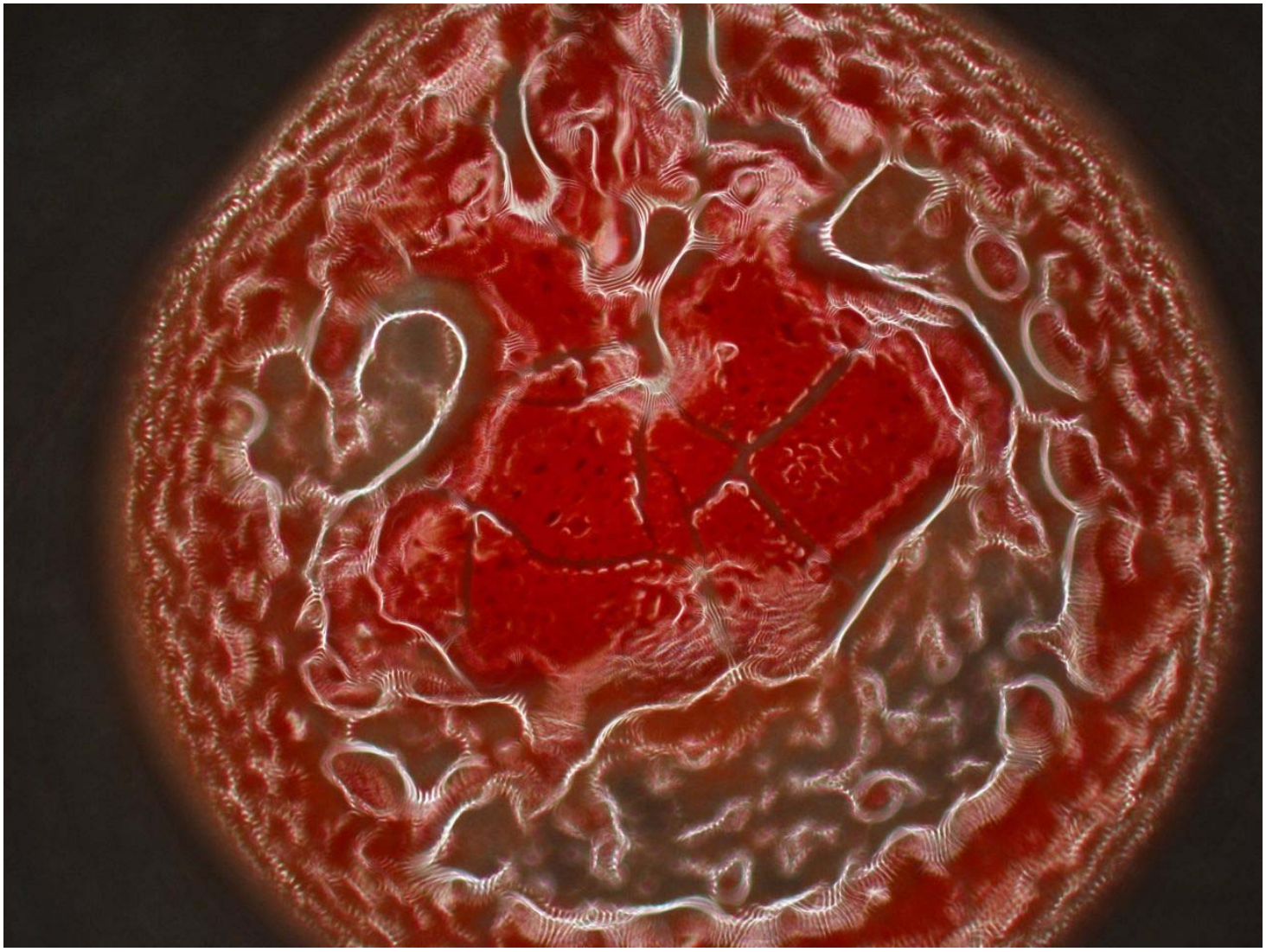
Magnification: 10.01 k X

Instrument: LEO SUPRA GEMINI SEM

Submitted by: Iris Bergmair

Affiliation: Profactor GmbH and CD Lab of Surface Optics

2007 micro & nano - graph Contest



micro & nano - graph Title:

HOT NANO WORLD

Description:
Optical micrograph in dark field mode of a dried droplet of CdSe/ZnS core shell nanoparticles

Magnification: 0.1 k X

Instrument: Nikon Optical Microscope

Submitted by: Wolfgang Schwinger

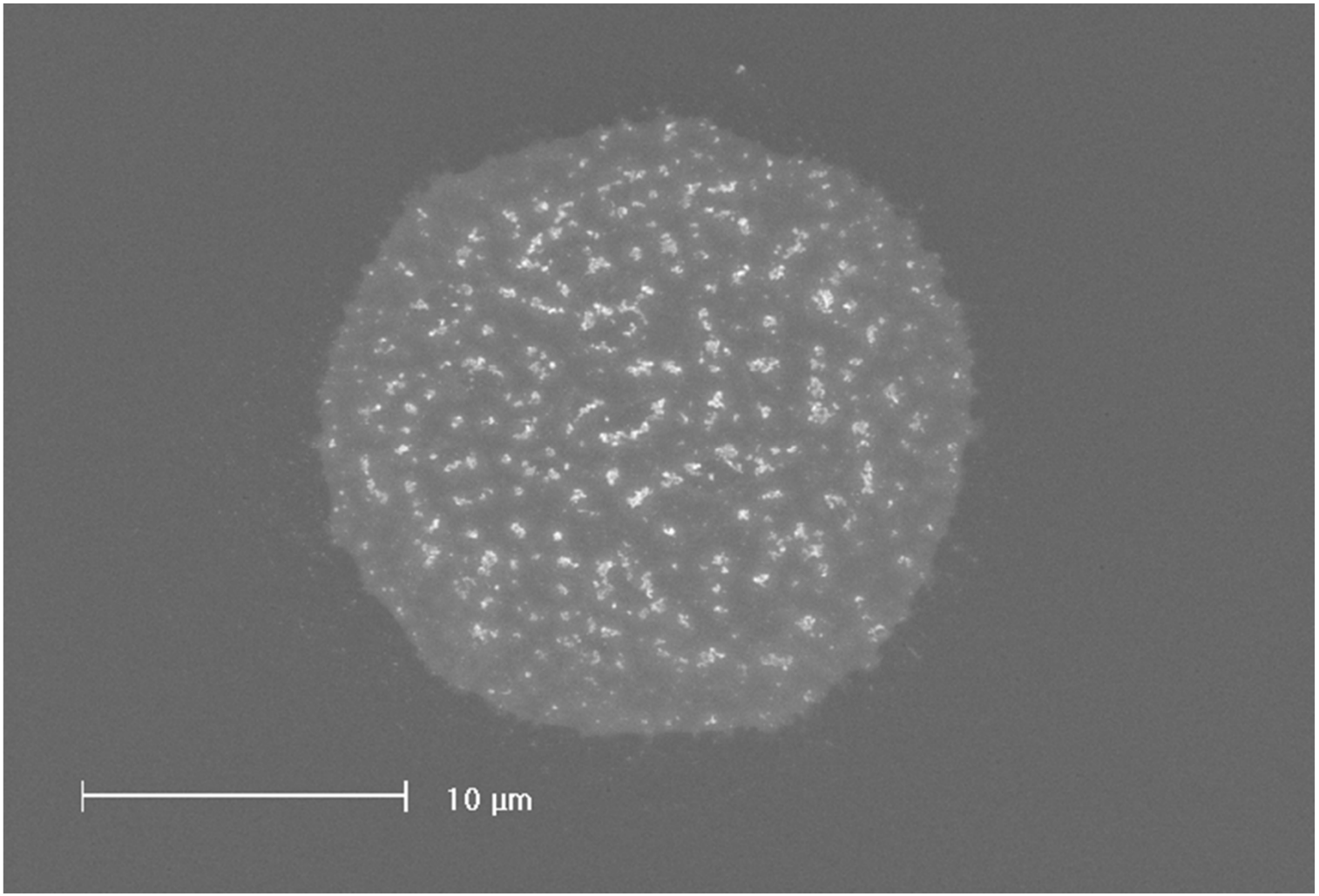
Affiliation: Profactor GmbH and University of Linz

2007 micro & nano - graph Contest

micro & nano - graph Title:

Archaeoglobus lithotrophicus magnetotacticus or micro-pizza with anchovies

Description:
Contamination on the Si substrate after resist development



Magnification: 10µm

Instrument: FEI XL30S

Submitted by: Vadim Sidorkin

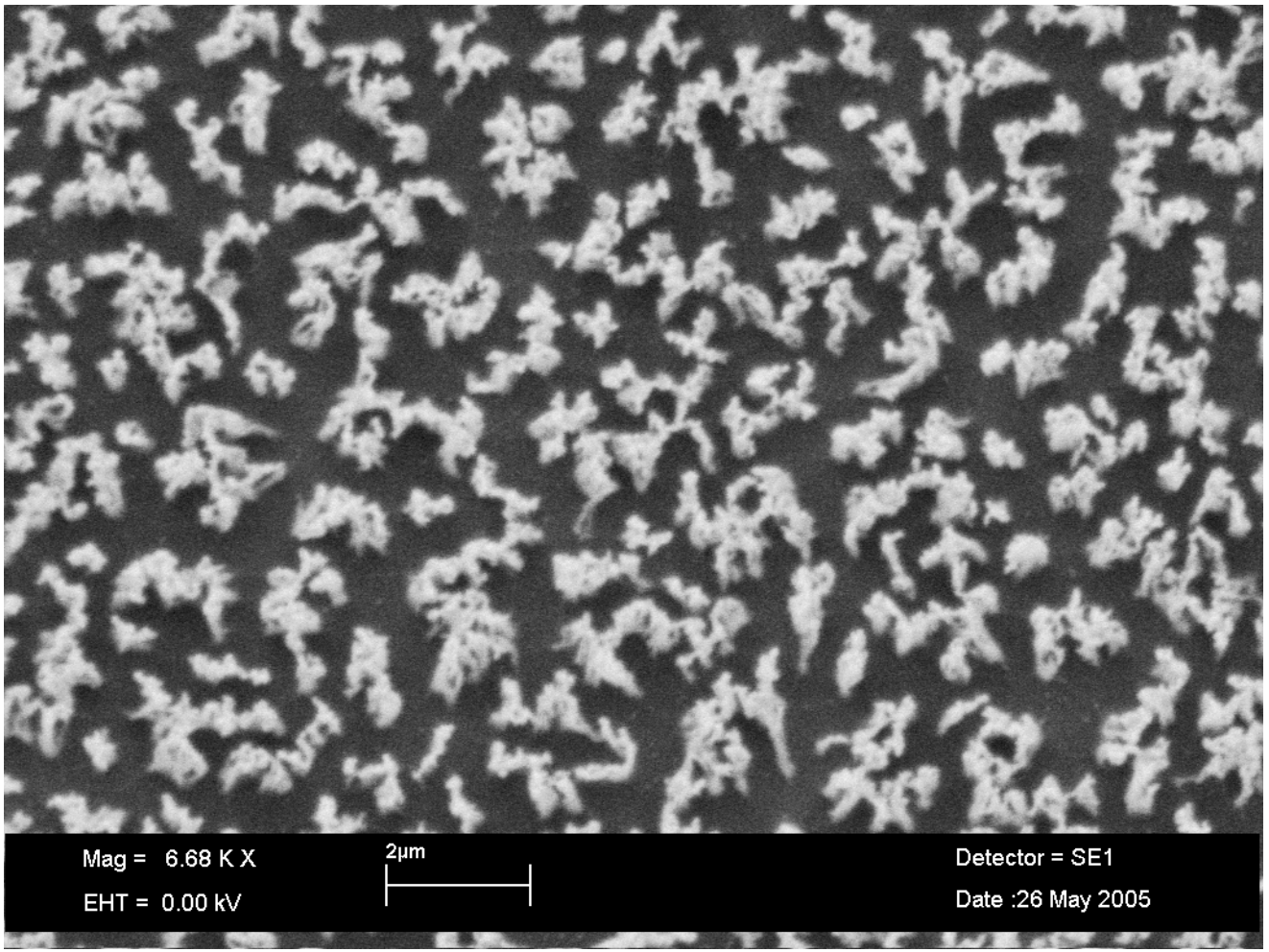
Affiliation: Delft University of Technology, Delft, Netherlands

2007 micro & nano - graph Contest

micro & nano - graph Title:

Rocky ground

Description:
Plasma-induced roughness on polymer surface



Magnification: 6.68 k X

Instrument: SEM Leo 440

Submitted by: Angeliki Tserepi

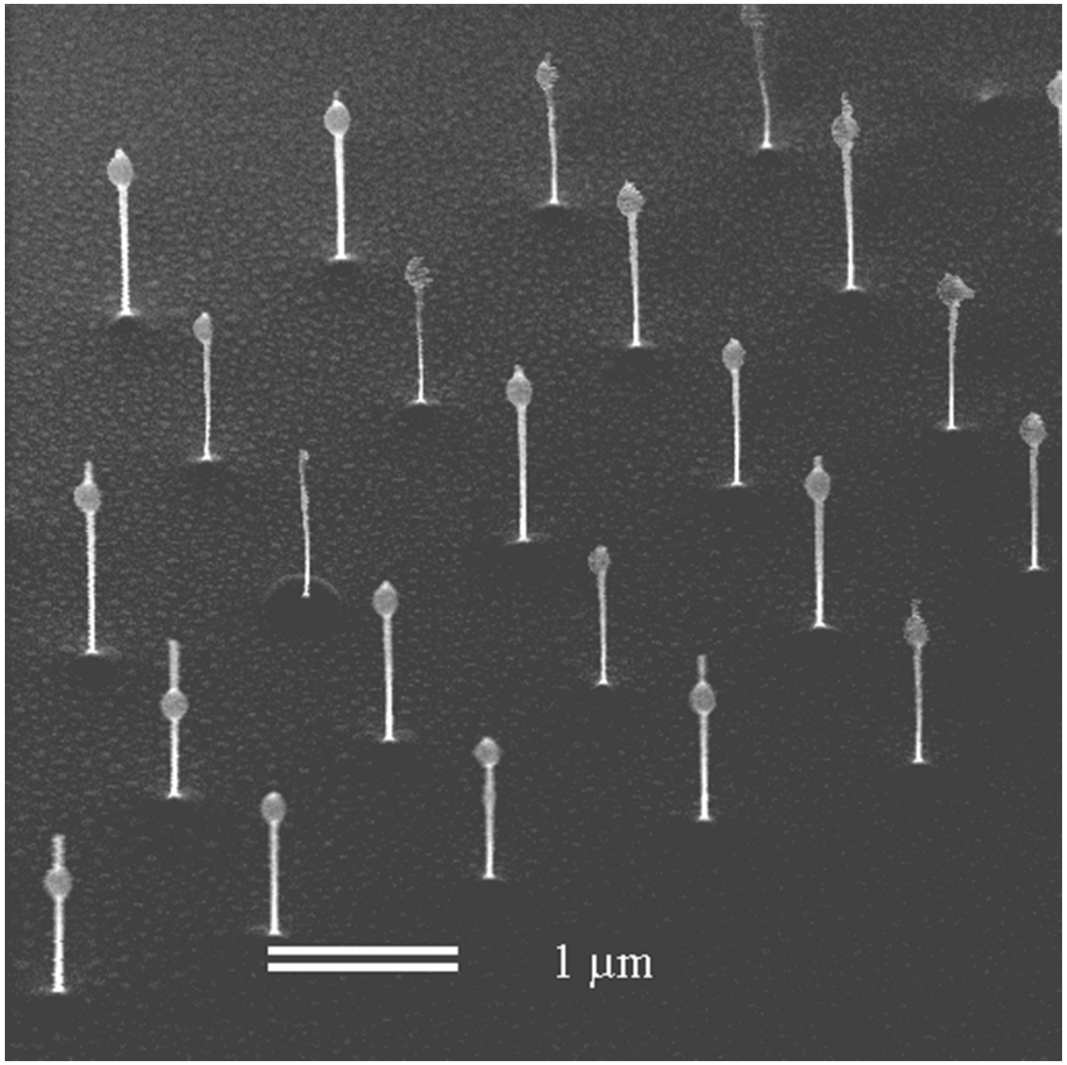
Affiliation: NCSR “Demokritos”, Institute of Microelectronics

2007 micro & nano - graph Contest

micro & nano - graph Title:

GaAs nanowires

Description:
GaAs nanowires made by ICP-RIE etching process from Ni lift-off nanopatterns (we can observe the catalysis of Ni on the nanowires)



Magnification: ?.?? k X

Instrument: Transmission Electron Microscopy

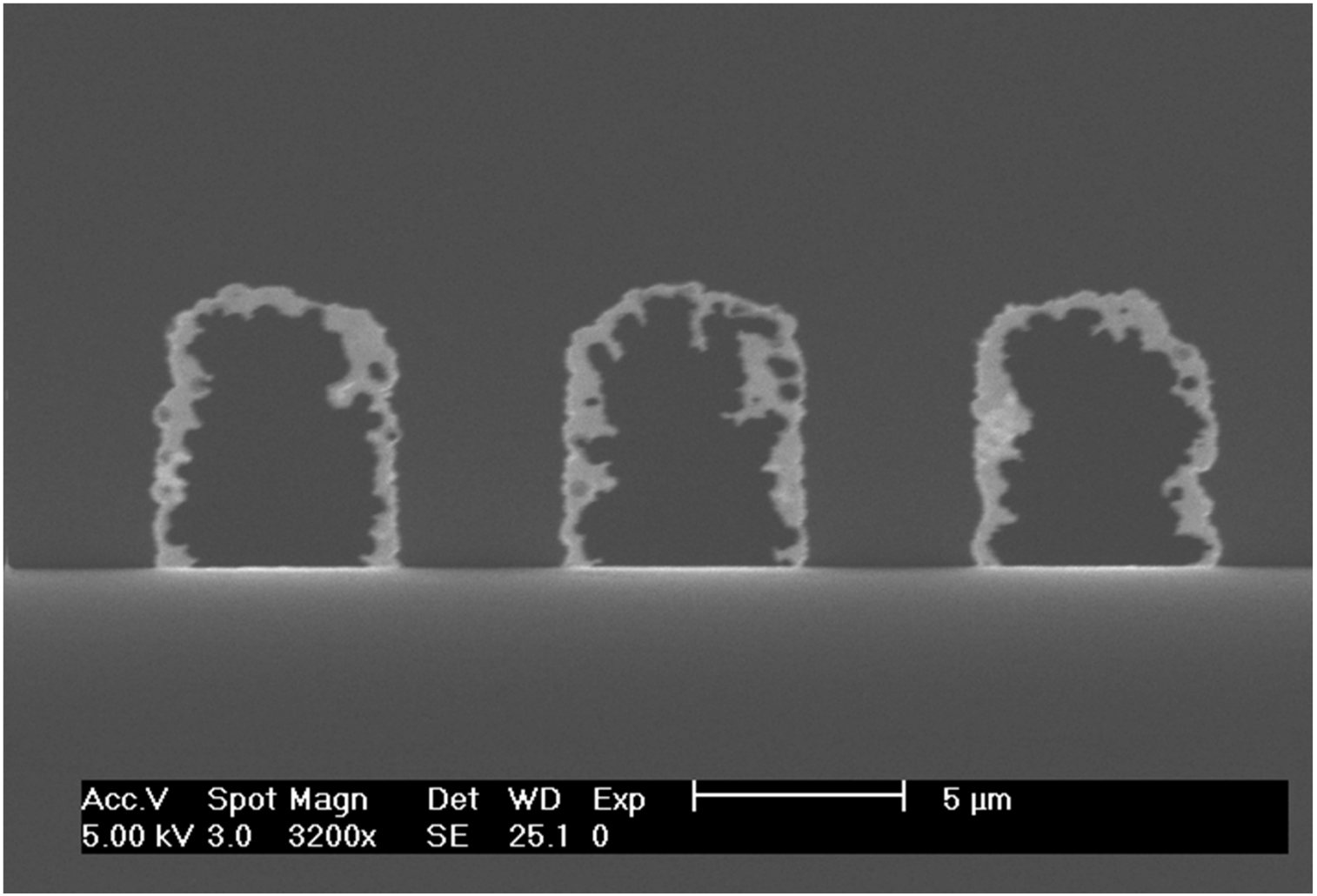
Submitted by: Laurent JALABERT

Affiliation: LAAS-CNRS, Toulouse, France

2007 micro & nano - graph Contest

micro & nano - graph Title:

Evil doors



Description:
Openings in tungsten film after incomplete dry etching

Magnification: 3.200 k X

Instrument: FEI XL30S

Submitted by: Vadim Sidorkin

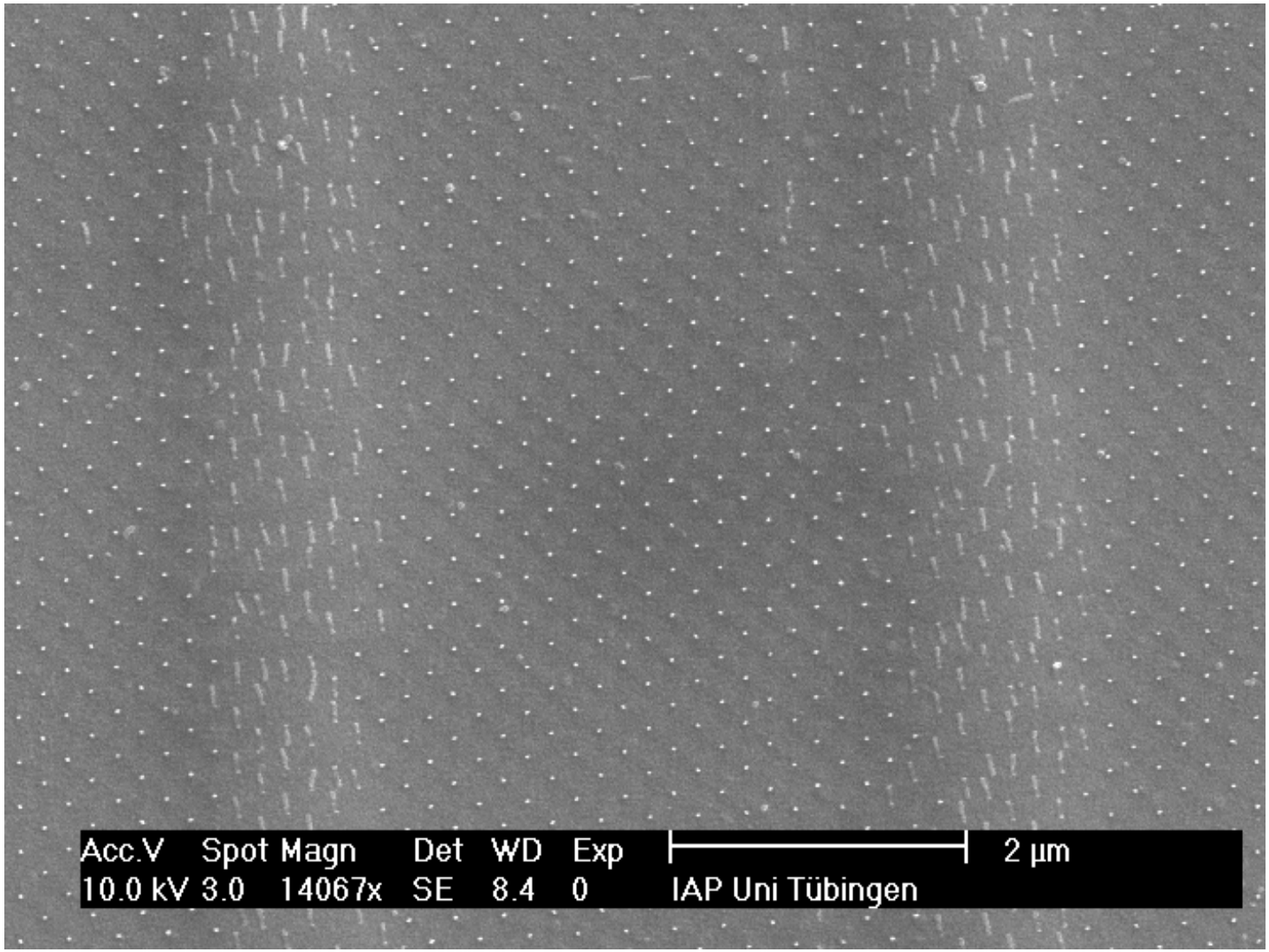
Affiliation: Delft University of Technology, Delft, Netherlands

2007 micro & nano - graph Contest

micro & nano - graph Title:

Storm

Description:
A storm destroys parts of a nano-pillar forest.



Magnification: 14067x

Instrument: Philips XL 30

Submitted by: Michael Häffner

Affiliation: University of Tuebingen

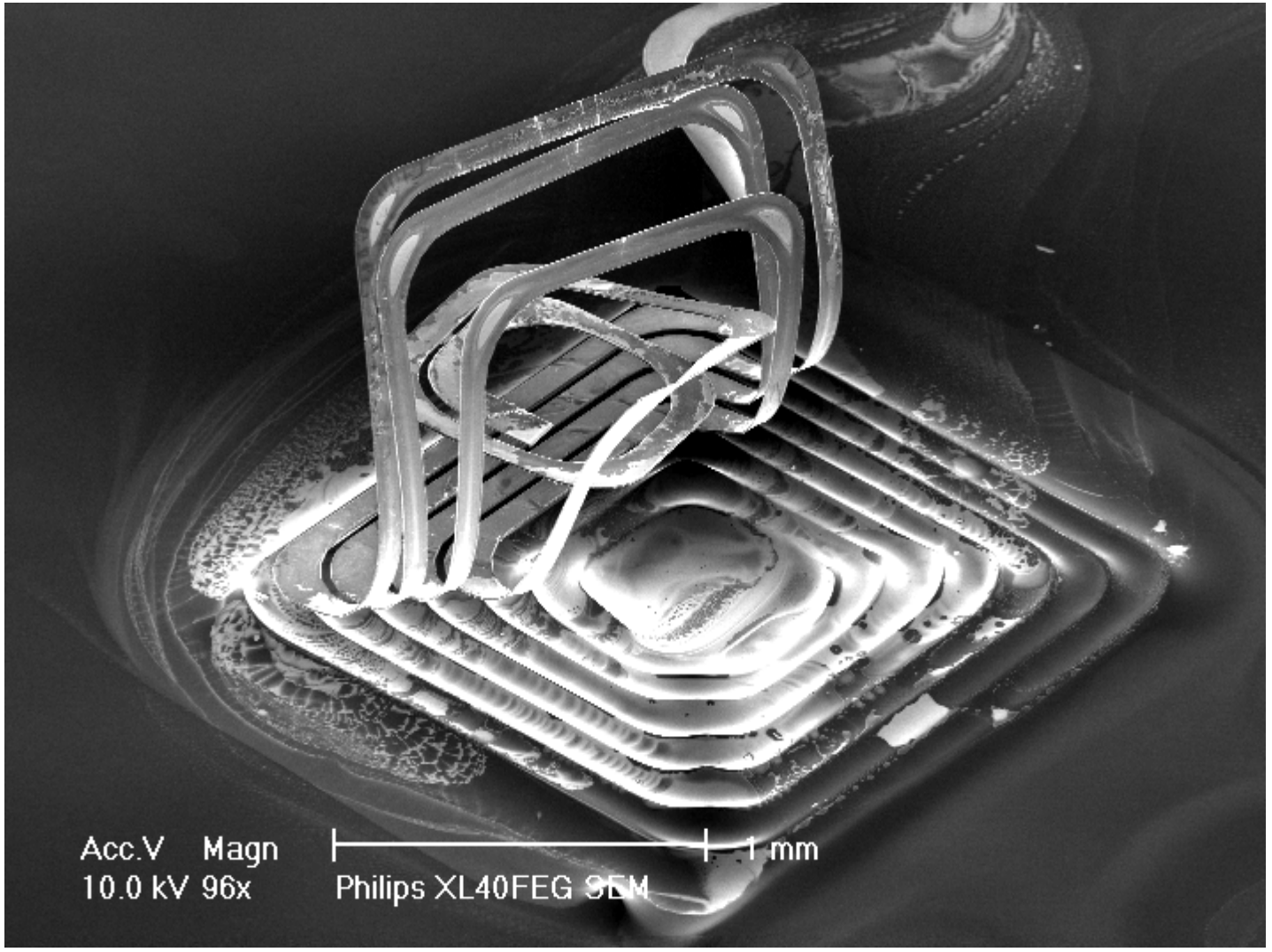
2007 micro & nano - graph Contest

micro & nano - graph Title:

Mission impossible

Description:

Under etching of the walls of this structure yielded this suprising construction.



Magnification: 96 X

Submitted by: Frans Holthuysen

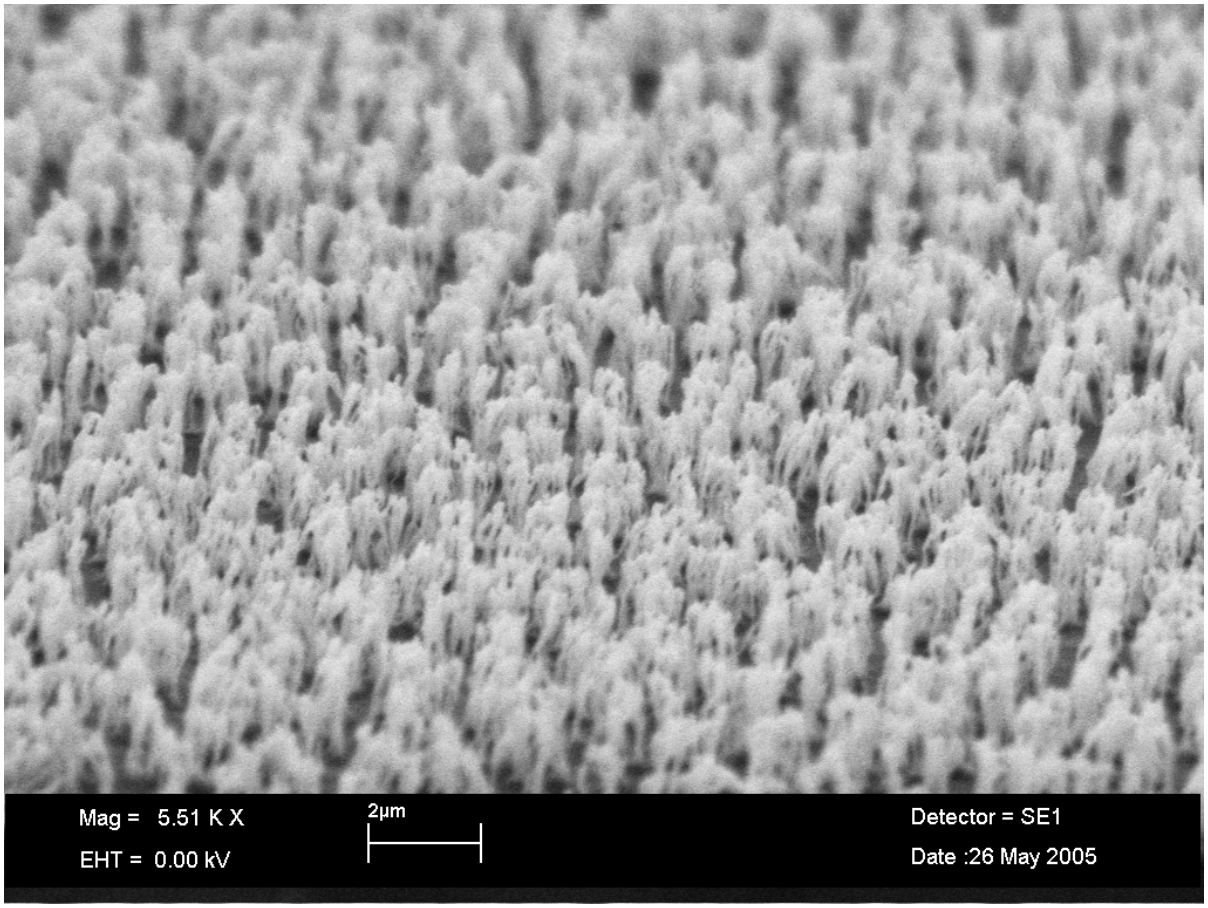
Instrument: Philips XL40FEG

Affiliation: Philips Research labs Eindhoven The Netherlands

2007 micro & nano - graph Contest

micro & nano - graph Title:
Fine-spun material

Description:
Plasma-induced roughness on polymer surface



Magnification: 5.51 X

Instrument: SEM Leo 440

Submitted by: Angeliki Tserepi

Affiliation: NCSR “Demokritos”, Institute of Microelectronics

2007 micro & nano - graph Contest

micro & nano - graph Title:

Artist

Description:
An unexpected artist enters the world of carbon nanotubes.

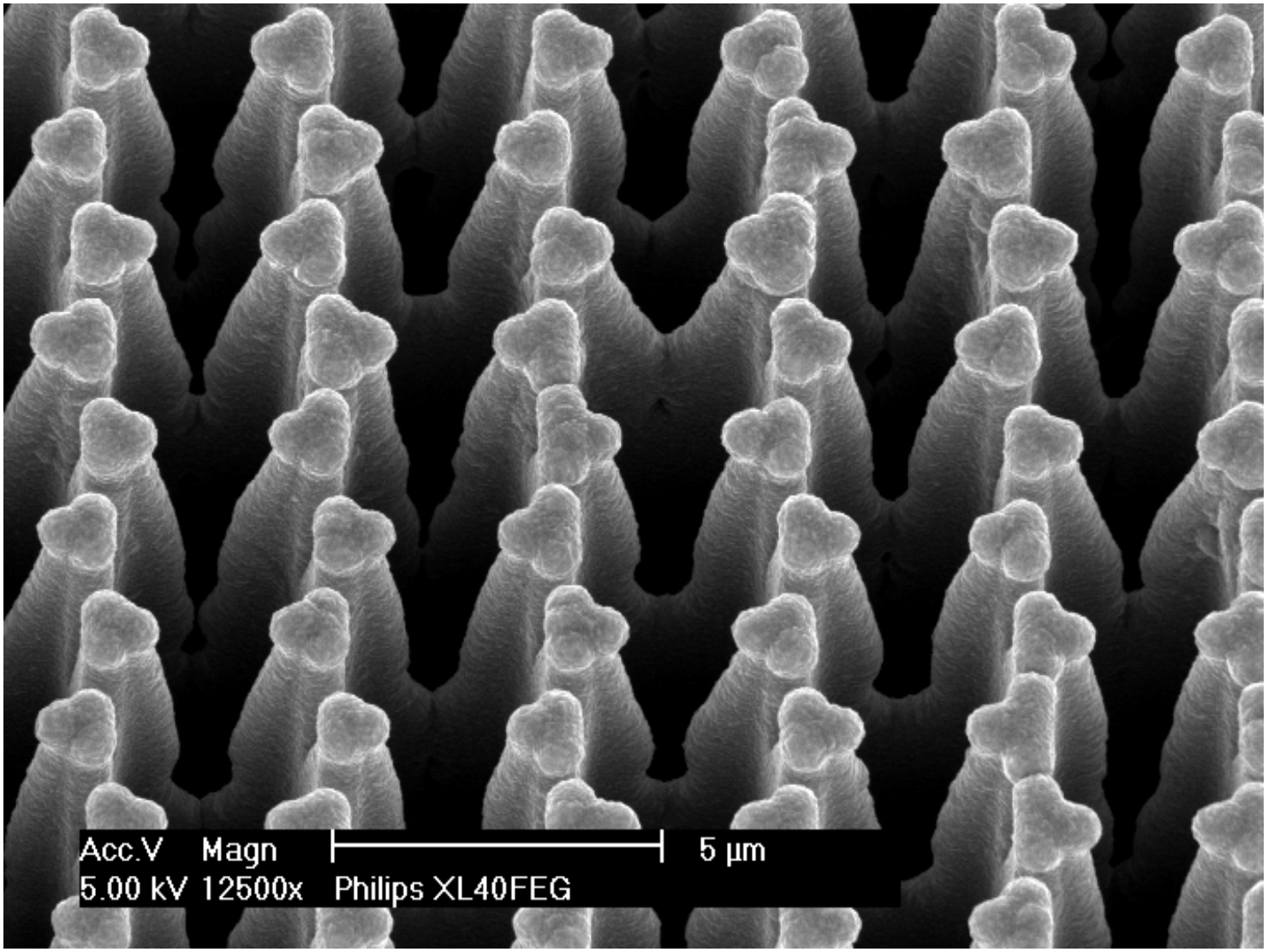
Magnification: 14067x

Instrument: Philips XL 30

Submitted by: Michael Häffner

Affiliation: University of Tuebingen

2007 micro & nano - graph Contest



micro & nano - graph Title:
My Teddy Bears

Description:
Wet etched Macro porous silicon

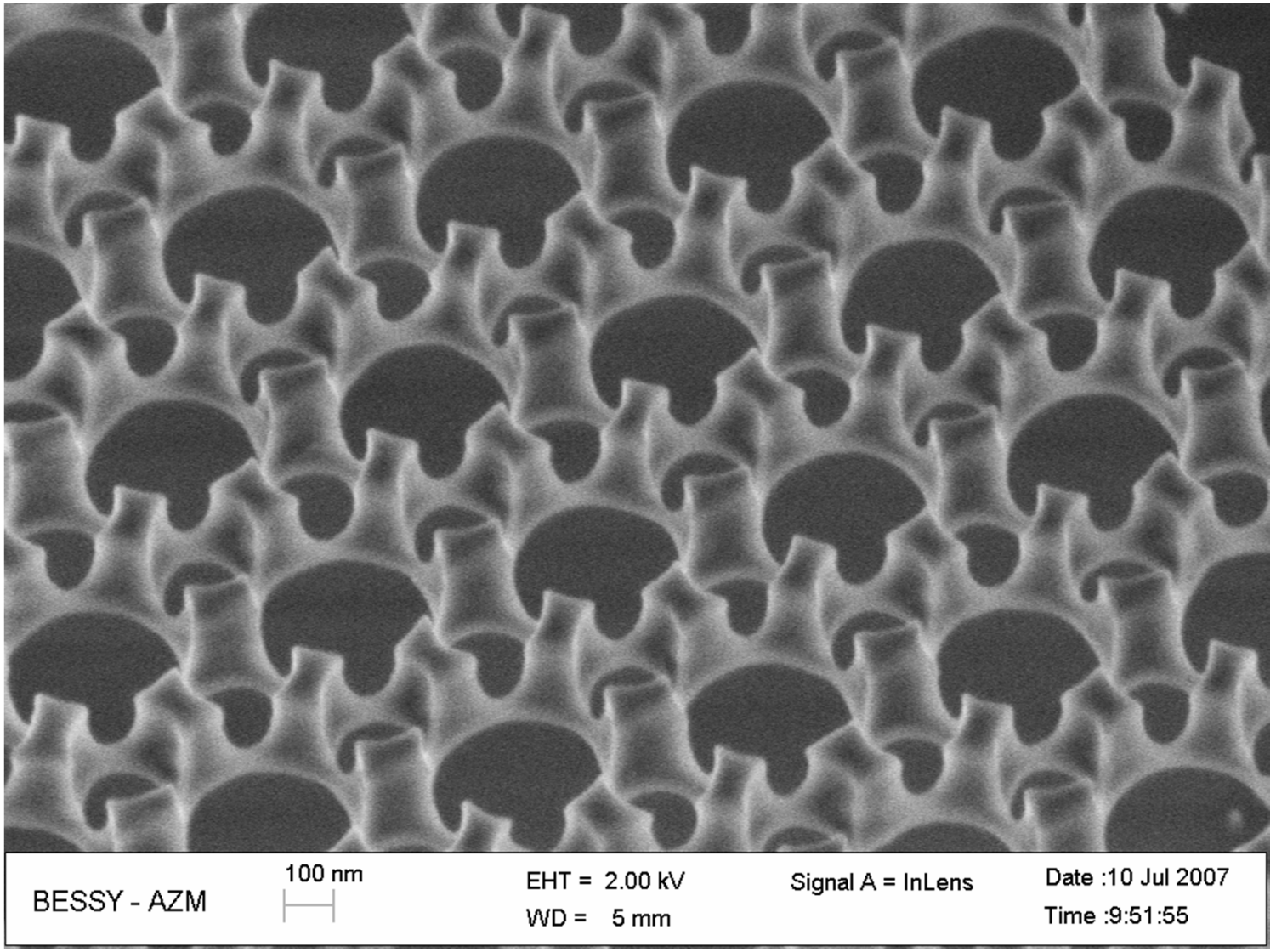
Magnification: 12.500 X

Instrument: Philips XL40FEG

Submitted by: Frans Holthuysen

Affiliation: Philips Research labs Eindhoven The Netherlands

2007 micro & nano - graph Contest



micro & nano - graph Title:

The Egg-Box

Description:
Free standing silicon nitride membrane as a result of a failed etching process; supposed to be a photonic structure with cylindrical holes (small and big diameter)

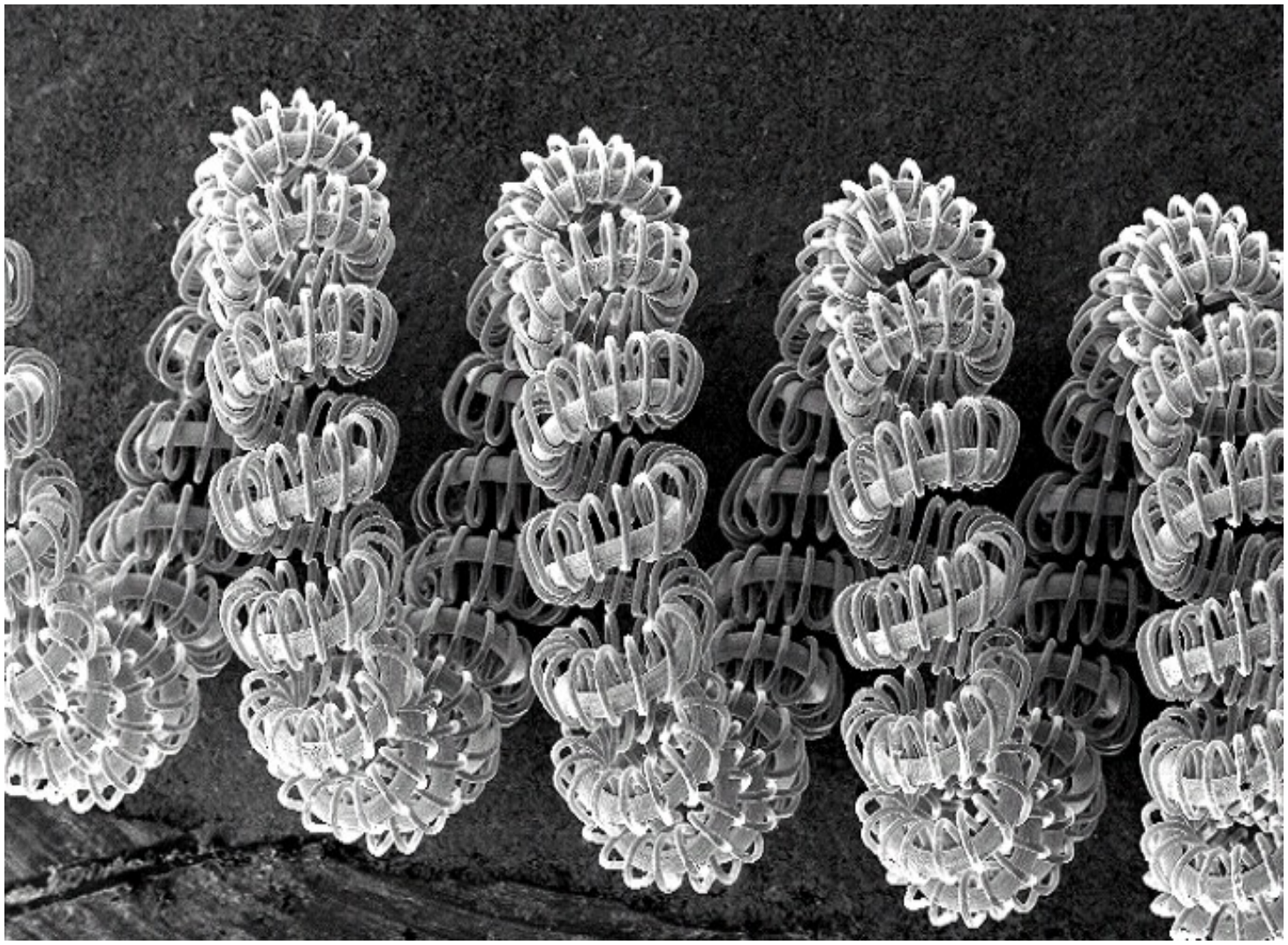
Magnification: 150 k X

Instrument: Zeiss LEO 1560

Submitted by: Josef Kouba

Affiliation: BESSY GmbH, AZM

2007 micro & nano - graph Contest



micro & nano - graph Title:

Shoelance

Description:

Filament of a 150 watt halogen lamp.

Magnification: 500 X

Submitted by: Frans Holthuysen

Instrument: Philips XL40FEG

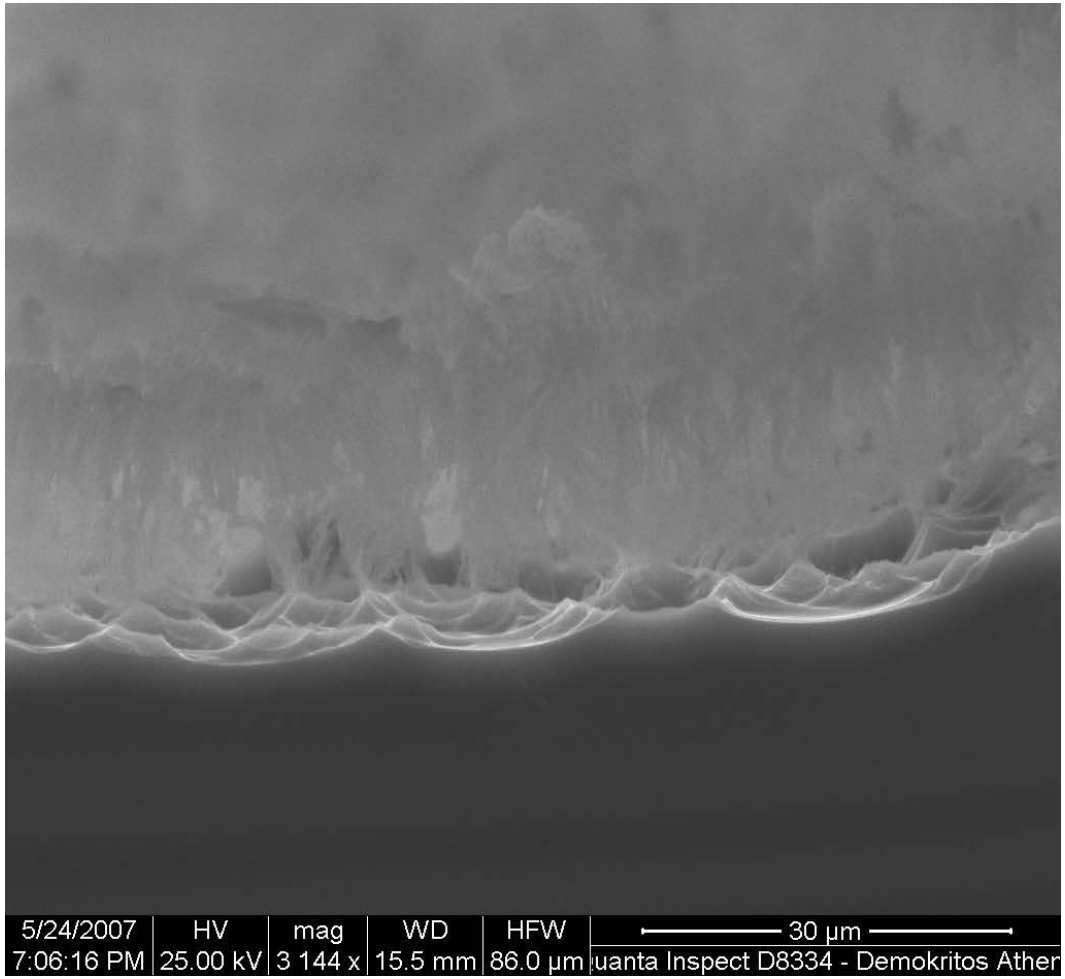
Affiliation: Philips Research labs Eindhoven The Netherlands

2007 micro & nano - graph Contest

micro & nano - graph
Title:

Needle-forest

Description:
Plasma-transferred roughness on Si, from the polymer above



Magnification: 3144 X

Instrument: SEM

Submitted by: Angeliki Tserepi

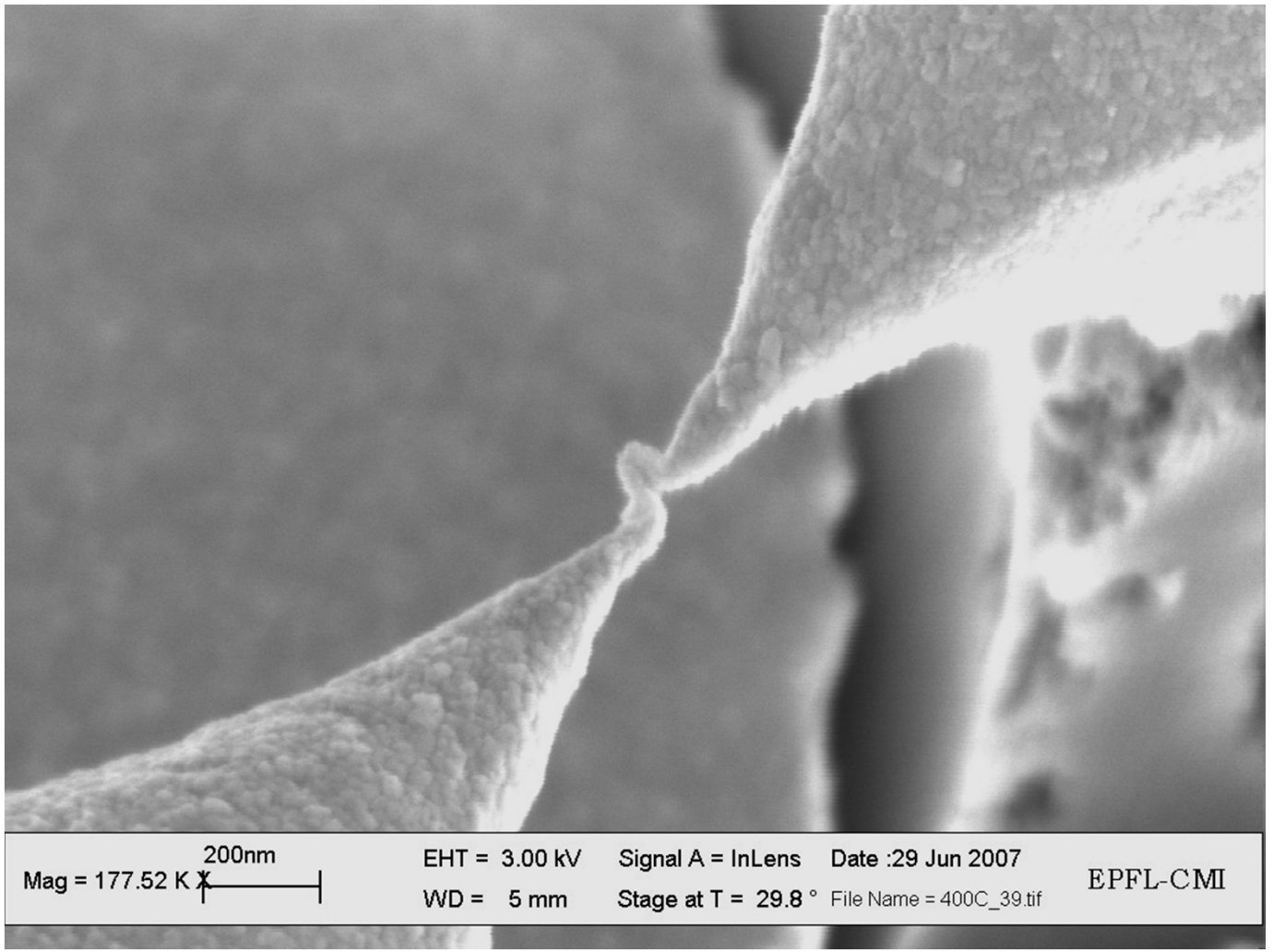
Affiliation: NCSR "Demokritos", Institute of Microelectronics

2007 micro & nano - graph Contest

micro & nano - graph Title:

NanoKiss

Description:
Freestanding metal bridge after evaporation and wet chemical release.



Magnification: 177.52 K X

Instrument: Zeiss LEO 1550

Submitted by: Thomas Kiefer

Affiliation: LMIS 1, EPF Lausanne, Switzerland

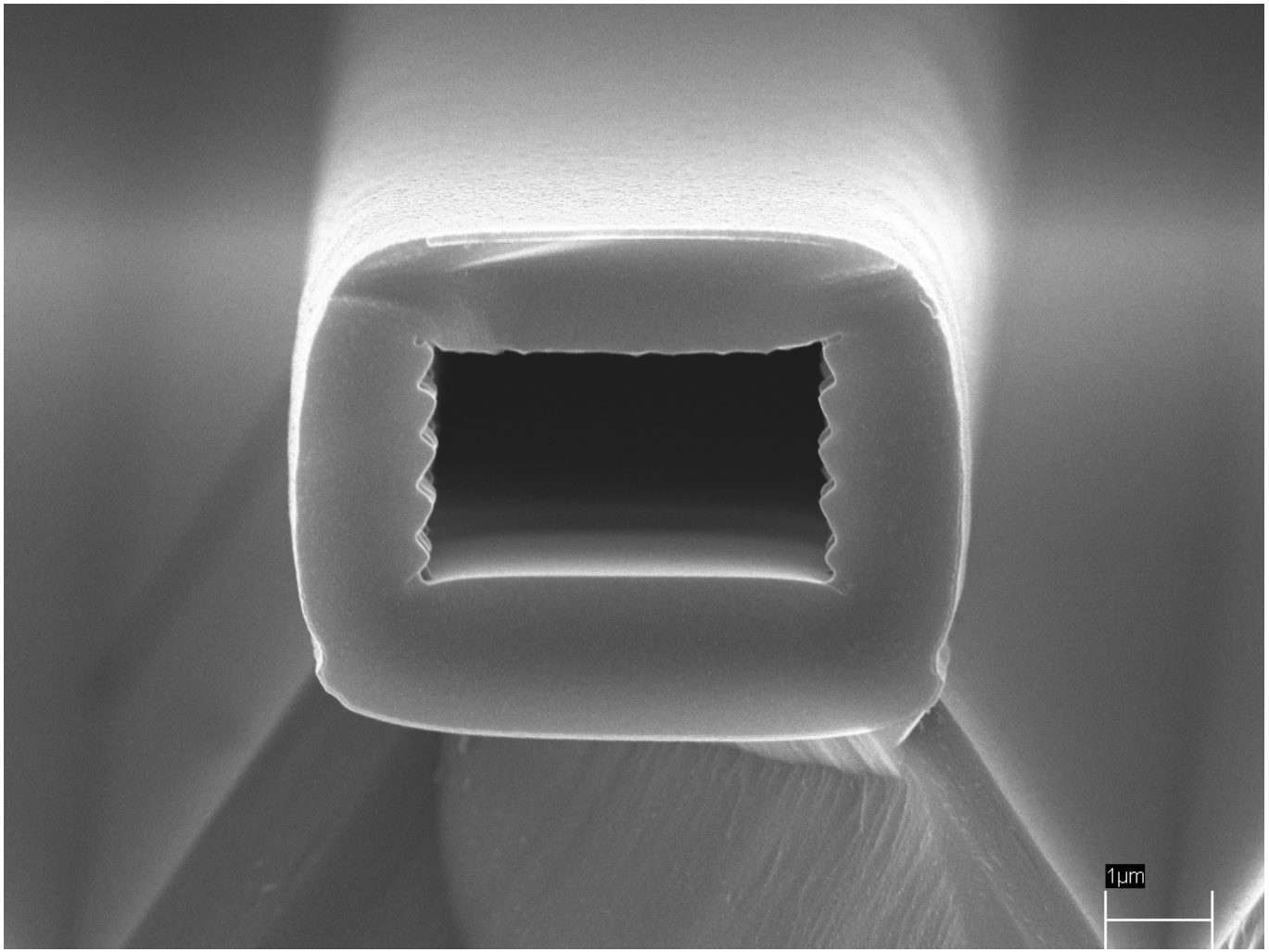
2007 micro & nano - graph Contest

micro & nano - graph Title:

Cleaved hollow Ionpipette

Description:

Capillary made of silicon oxide by DRIE, Oxidation and selective Si/SiO_2 KOH etching



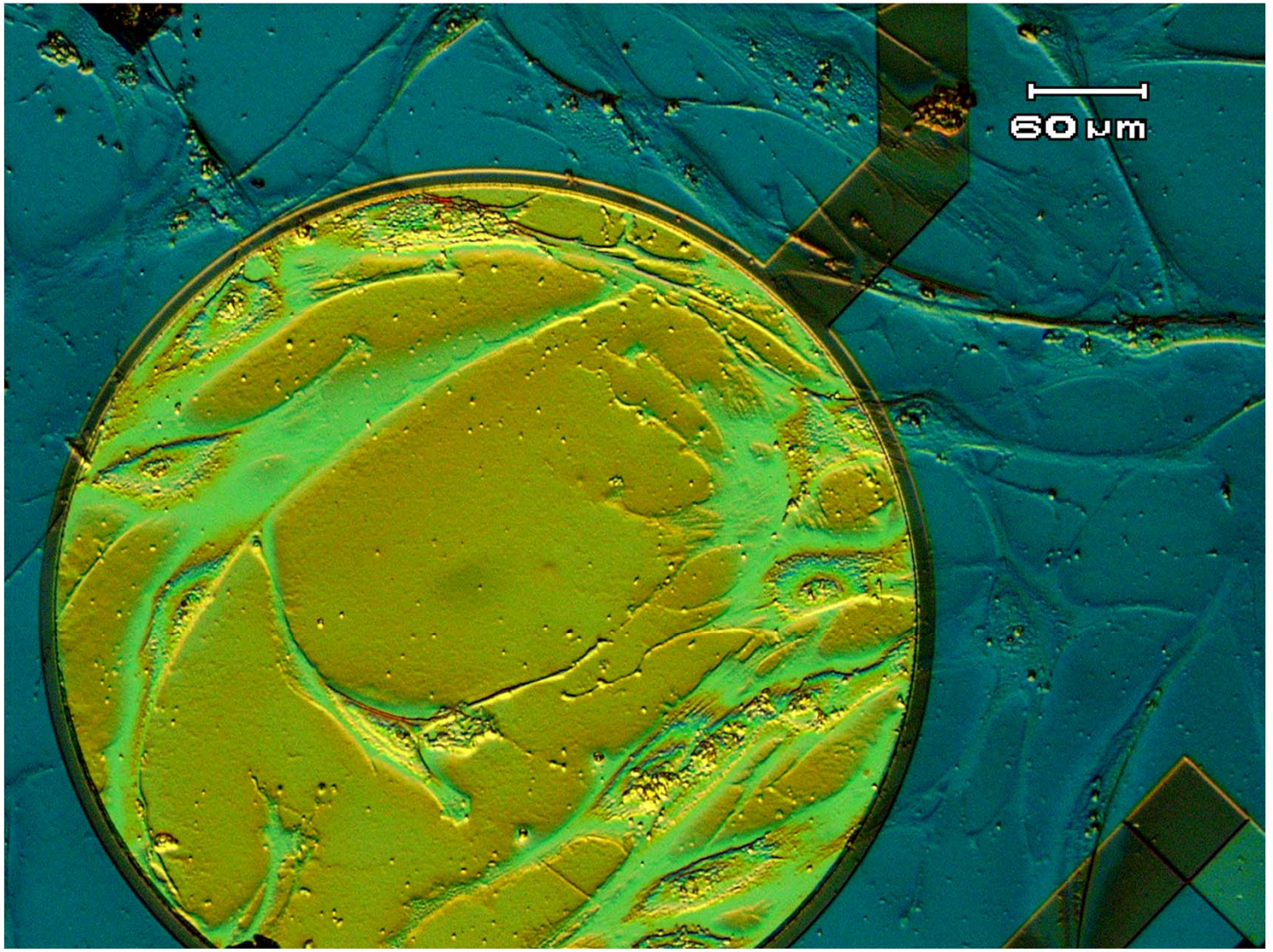
Magnification: 17 k X

Instrument: Ebeam Raith 144

Submitted by: Friedjof Heuck

Affiliation: Neuchatel Univ. - Samlab

2007 micro & nano - graph Contest



micro & nano - graph Title:

Moon

Description:
Human mesenchymal stem cells cultivated on gold electrode with silicon substrate

Magnification: Scale on the ficture

Instrument: OLYMPUS BX51

Submitted by: Sungbo Cho

Affiliation: Fraunhofer IBMT, Germany

2007 micro & nano - graph Contest

micro & nano - graph Title:

Sloping coil

Description:
Sloped SEM micrograph of the helical coil structure of a micro-fluxgate

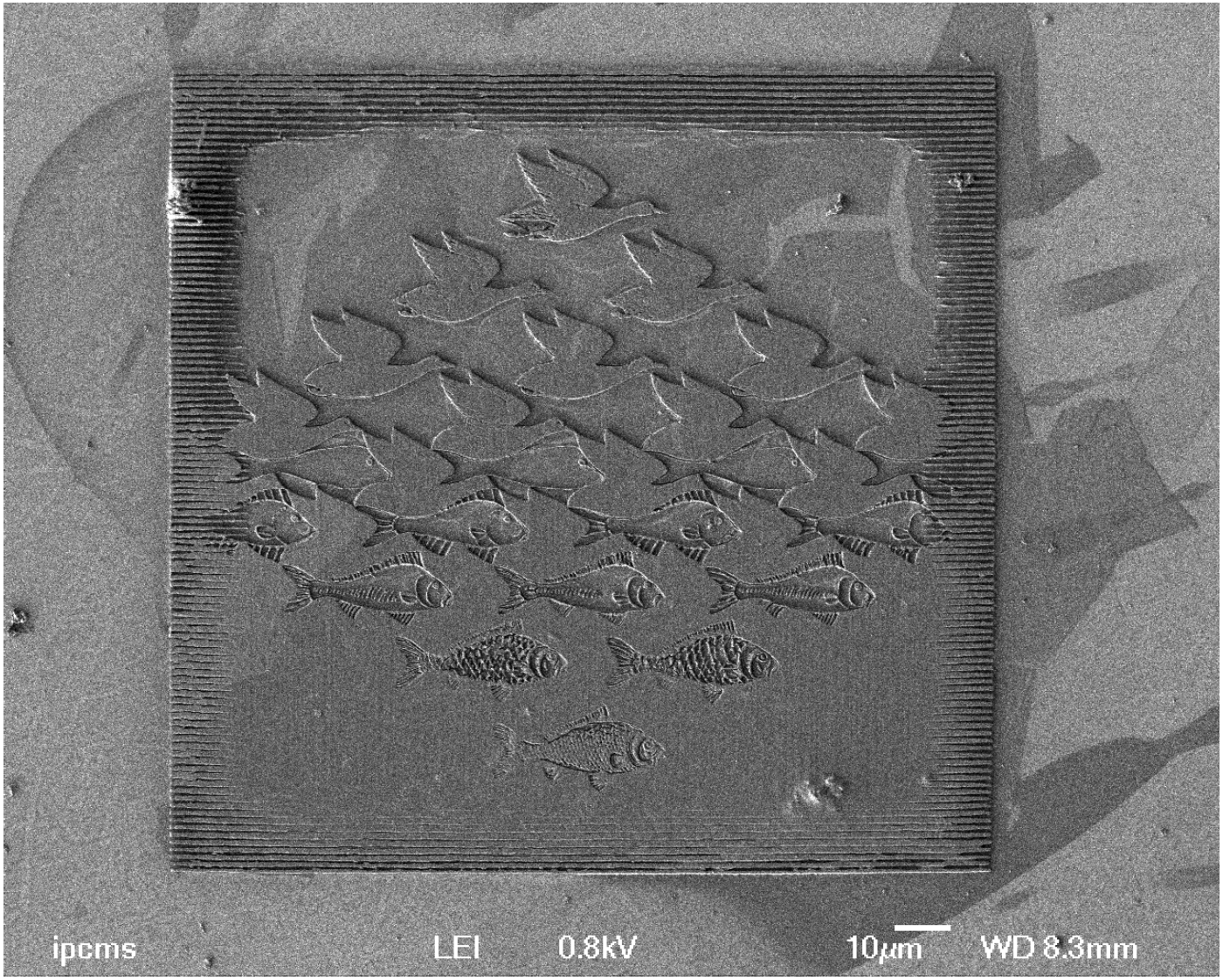
Magnification: 200 X

Instrument: SEM Zeiss DSM 960 A

Submitted by: Maren Ramona Kirchhoff

Affiliation: Institute for Microtechnology, TU Braunschweig

2007 micro & nano - graph Contest



micro & nano - graph Title:

Flying and swimming

Description:
From M.C. Escher's work (Sky and water 1, woodcut 1938), oxide on glass, obtained by direct e-beam lithography using RBnano precursor (resistless, no solvent used).

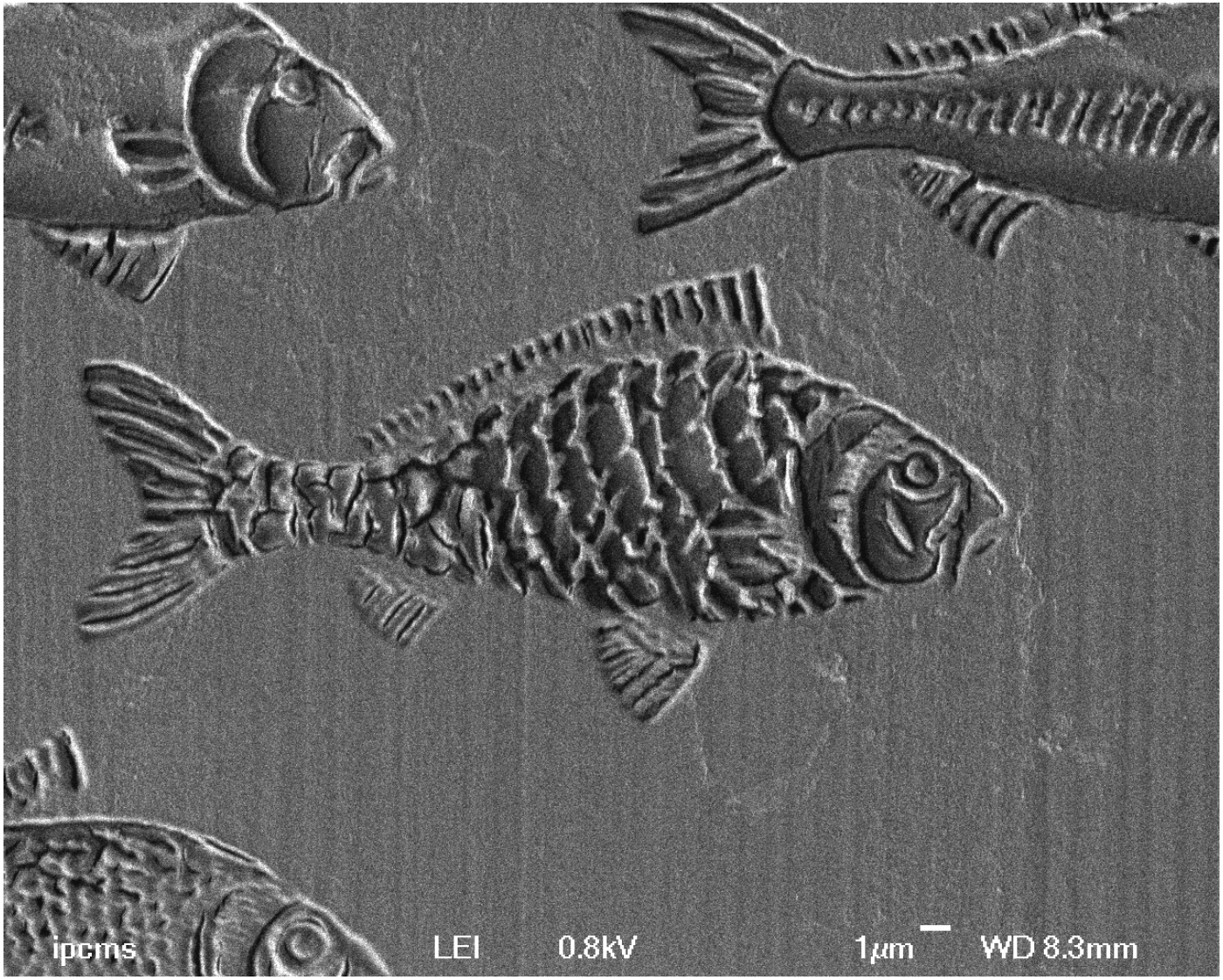
Magnification: 0.55 k X

Instrument: Jeol JSM 6700F

Submitted by: Alain Carvalho

Affiliation: CNRS - IPCMS

2007 micro & nano - graph Contest



micro & nano - graph Title:

Flying and swimming

Description:
From M.C. Escher's work (Sky and water 1, woodcut 1938), oxide on glass, obtained by direct e-beam lithography using RBnano precursor (resistless, no solvent used).

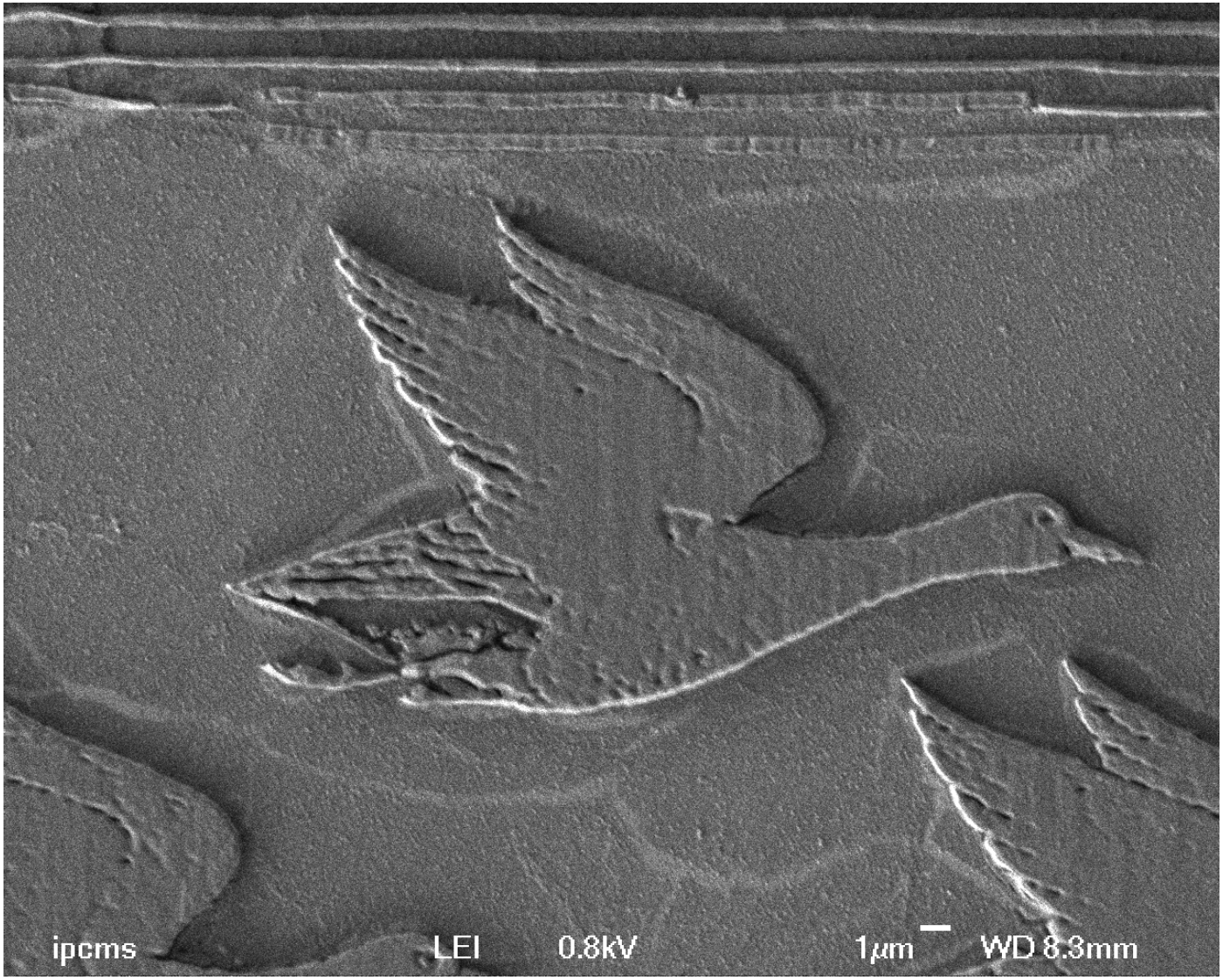
Magnification: 3 k X

Instrument: Jeol JSM 6700F

Submitted by: Alain Carvalho

Affiliation: CNRS - IPCMS

2007 micro & nano - graph Contest



micro & nano - graph Title:

Flying and swimming

Description:
From M.C. Escher's work (Sky and water 1, woodcut 1938), oxide on glass, obtained by direct e-beam lithography using RBnano precursor (resistless, no solvent used).

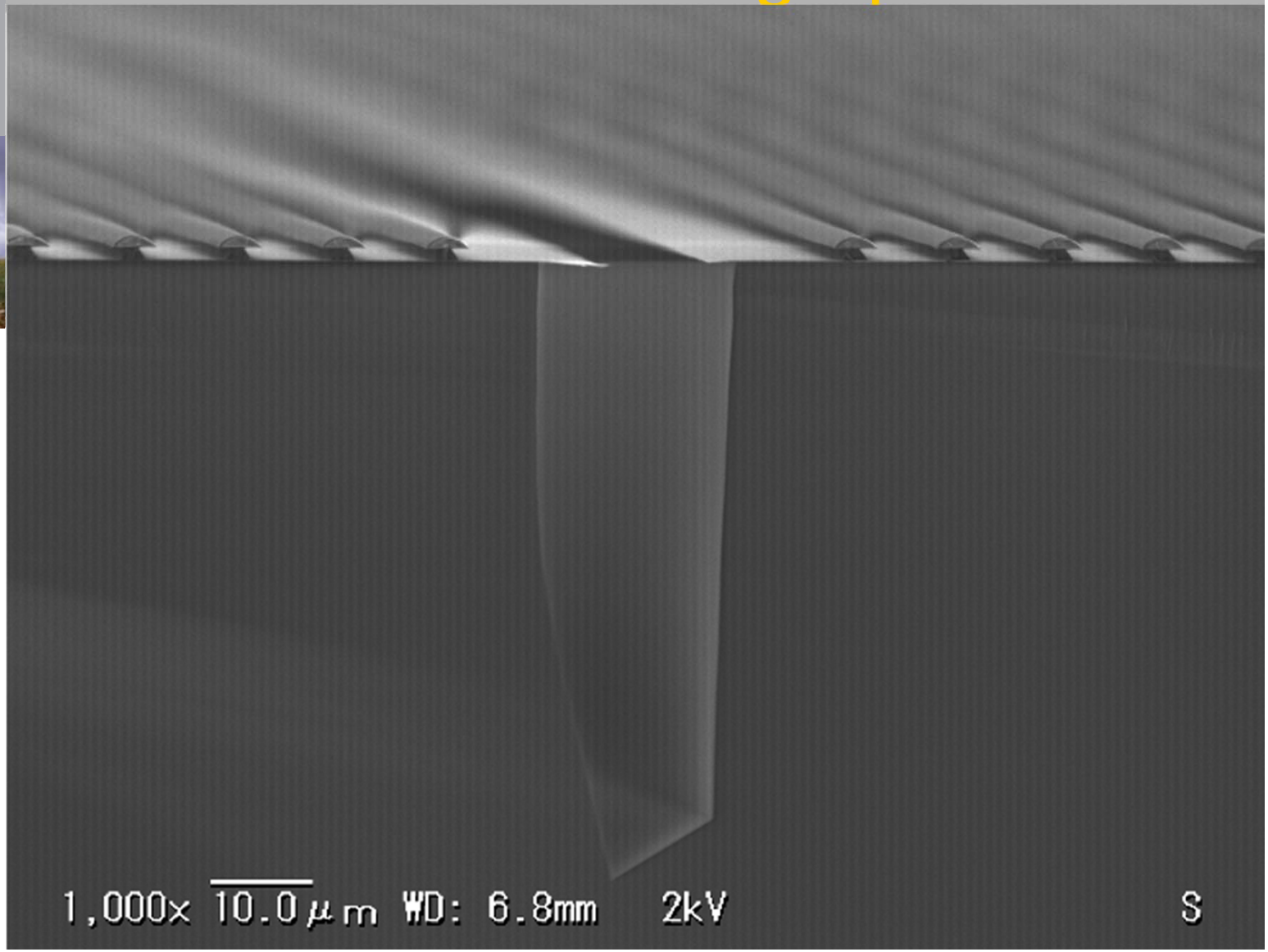
Magnification: 3 k X

Instrument: Jeol JSM 6700F

Submitted by: Alain Carvalho

Affiliation: CNRS - IPCMS

2007 micro & nano - graph Contest



micro & nano - graph Title:

Strong overhang

Description:
The bi-layer lift-off pattern was created before etching substrate. The overhang structure withstood the aggressive quartz etchant for one hour.

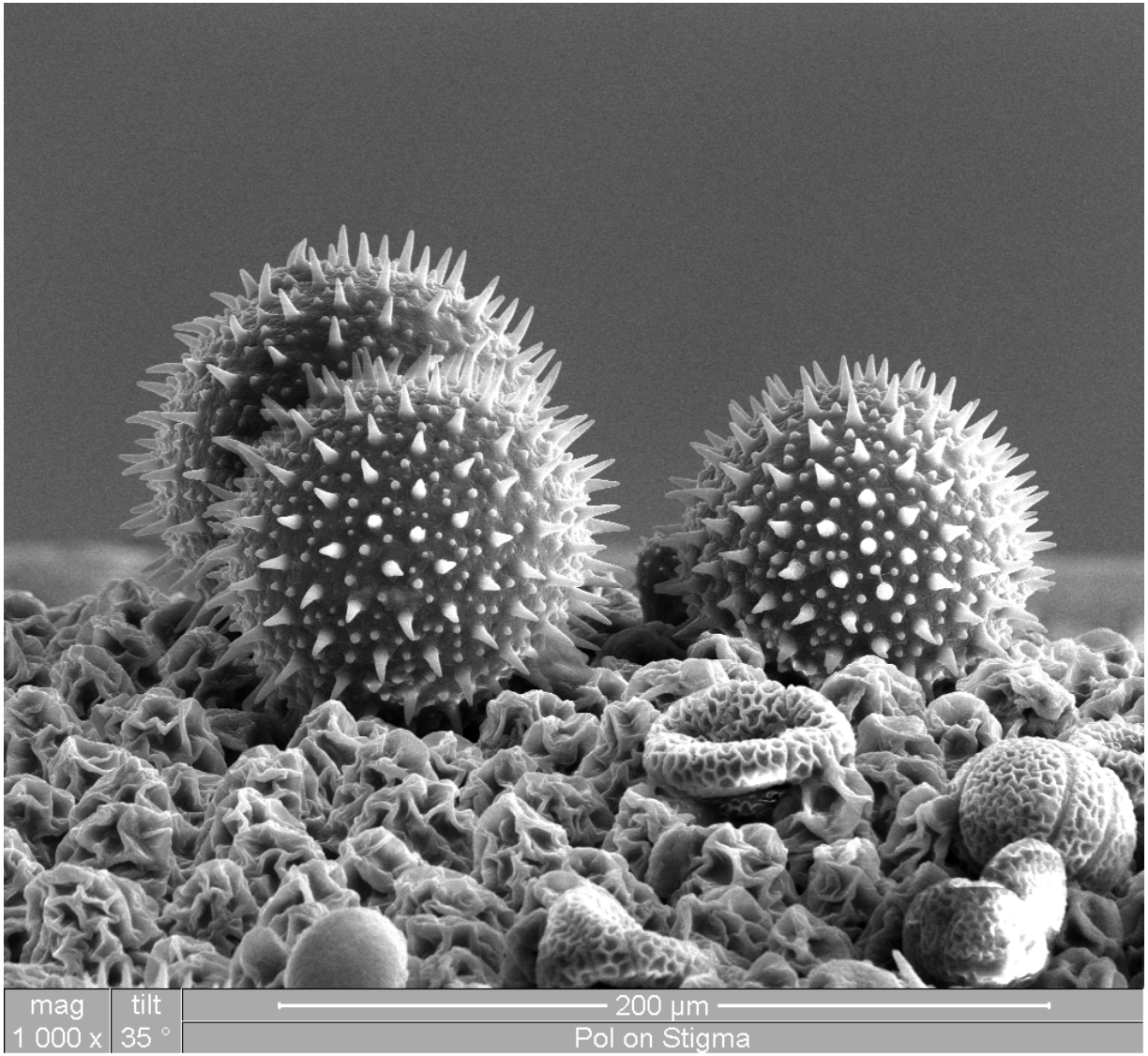
Magnification: 1k X

Instrument: KEYENCE VE-7800

Submitted by: Jinxing Liang

Affiliation: Waseda University, Japan

2007 micro & nano - graph Contest



micro & nano - graph

Title: The Chestnuts

Description:
Pollen of a Tree

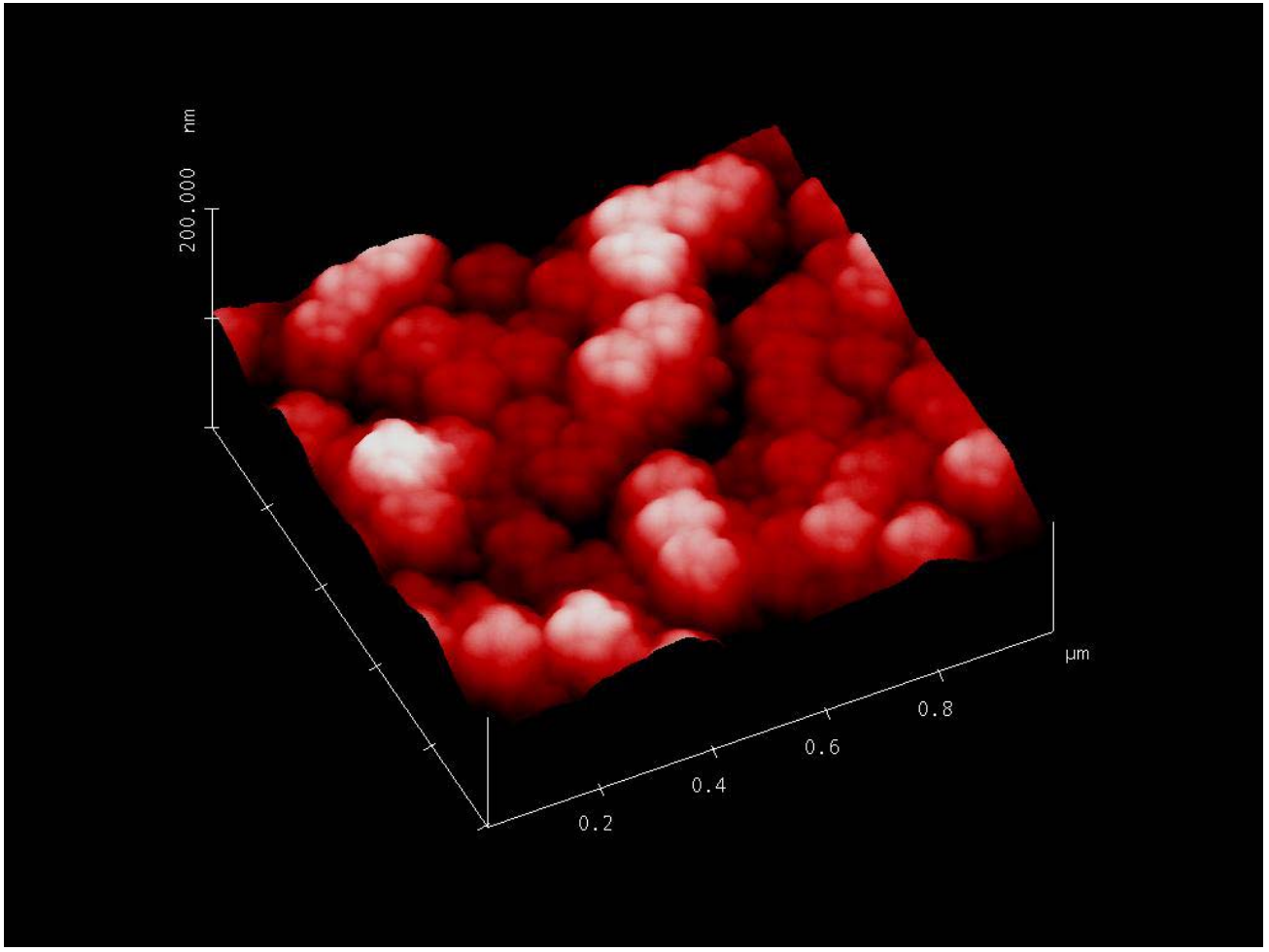
Magnification: 1000x

Submitted by: Frans Holthuysen

Instrument: NovaNanoSEM600

Affiliation: Philips Research labs Eindhoven The Netherlands

2007 micro & nano - graph Contest



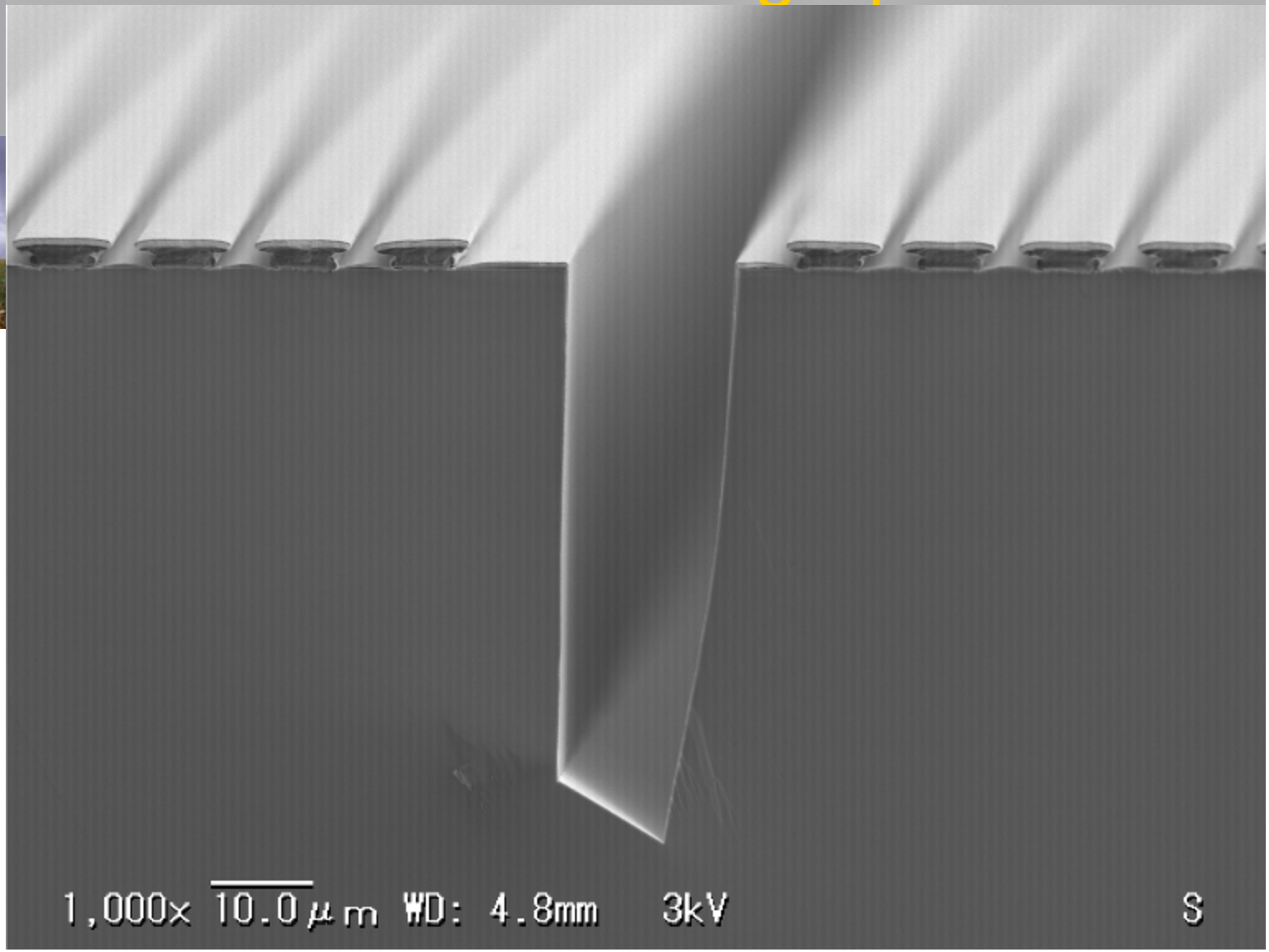
micro & nano - graph
Title: Have you ever eaten Nanoraspberry?

Description:
Self-assembling particles based on three-dimensional particle - aniline oligomer - particle repeated sequences, by a one-step process could further help in the realization of nanoscale electronics and molecular devices.

Magnification: x50,000
Submitted by: Hiroshi Shiigi

Instrument: Veeco Nanoscope IIIa
Affiliation: Osaka Prefecture University

2007 micro & nano - graph Contest



micro & nano - graph Title:

3-D pattern

Description:
The bi-layer lift-off pattern was created before etching quartz substrate. After wet etching quartz and sputtering metal films, the cross-section was observed.

Magnification: 1 k X

Instrument: KEYENCE VE-7800

Submitted by: Jinxing Liang

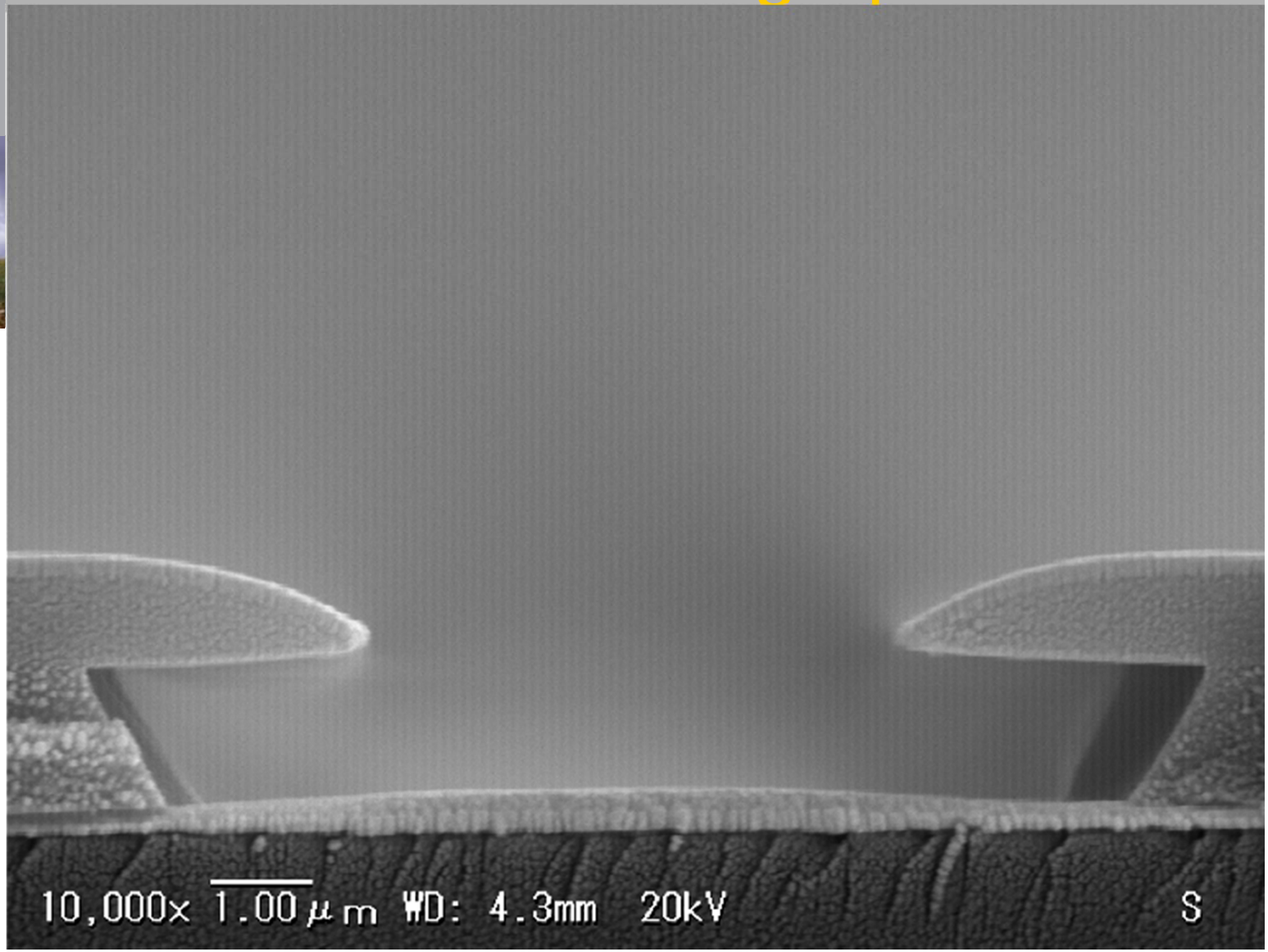
Affiliation: Waseda university, Japan

2007 micro & nano - graph Contest

micro & nano - graph Title:

Overhang

Description:
High aspect ratio undercut was created for reducing step coverage which is required in 3-D microdevice.



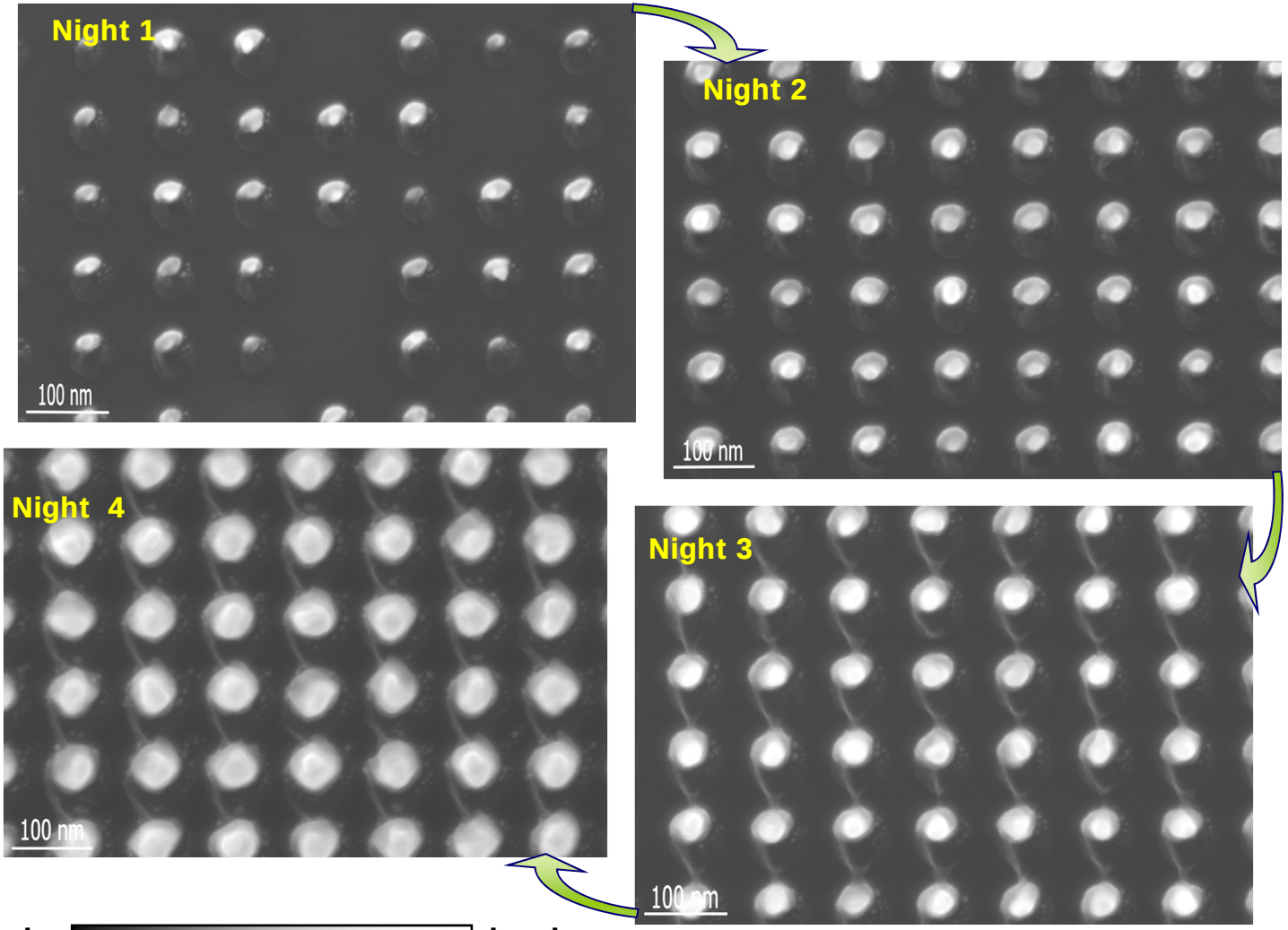
Magnification: 10 k X

Instrument: KEYENCE VE-7800

Submitted by: Jinxing Liang

Affiliation: Waseda University, Japan

2007 micro & nano - graph Contest



micro & nano - graph Title:

Formation of Highly Ordered Correlated Hurricane Array

Description:
Gold dots on silicon made with EUV-IL and lift-off

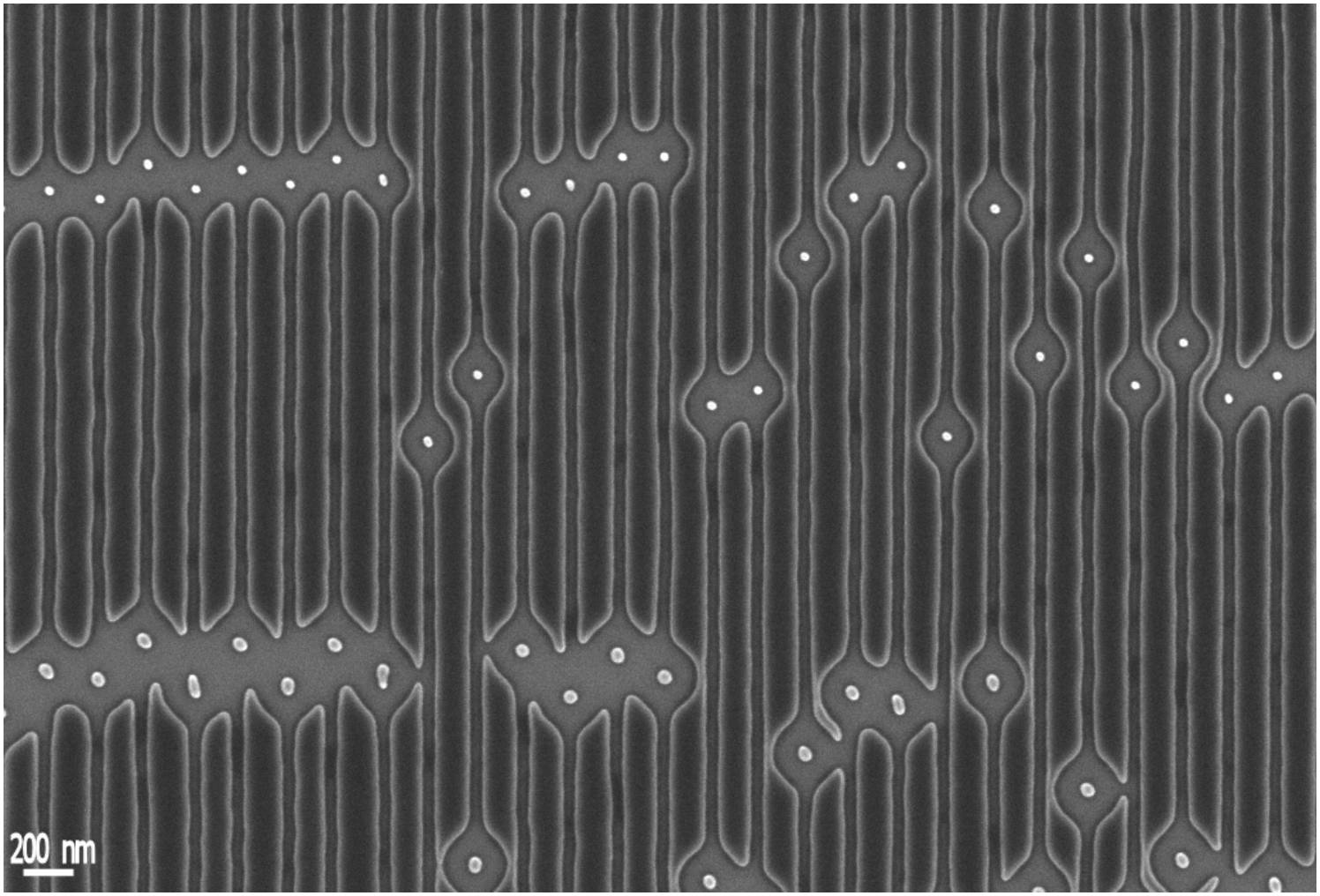
Magnification: 500 k X

Instrument: Supra 55VP

Submitted by: P.Sahoo, V.Auzelyte

Affiliation: Paul Scherrer Institute, LMN group

2007 micro & nano - graph Contest



micro & nano - graph Title:

They eat cherries with pips!

Description:
Electron beam pattern in PMMA

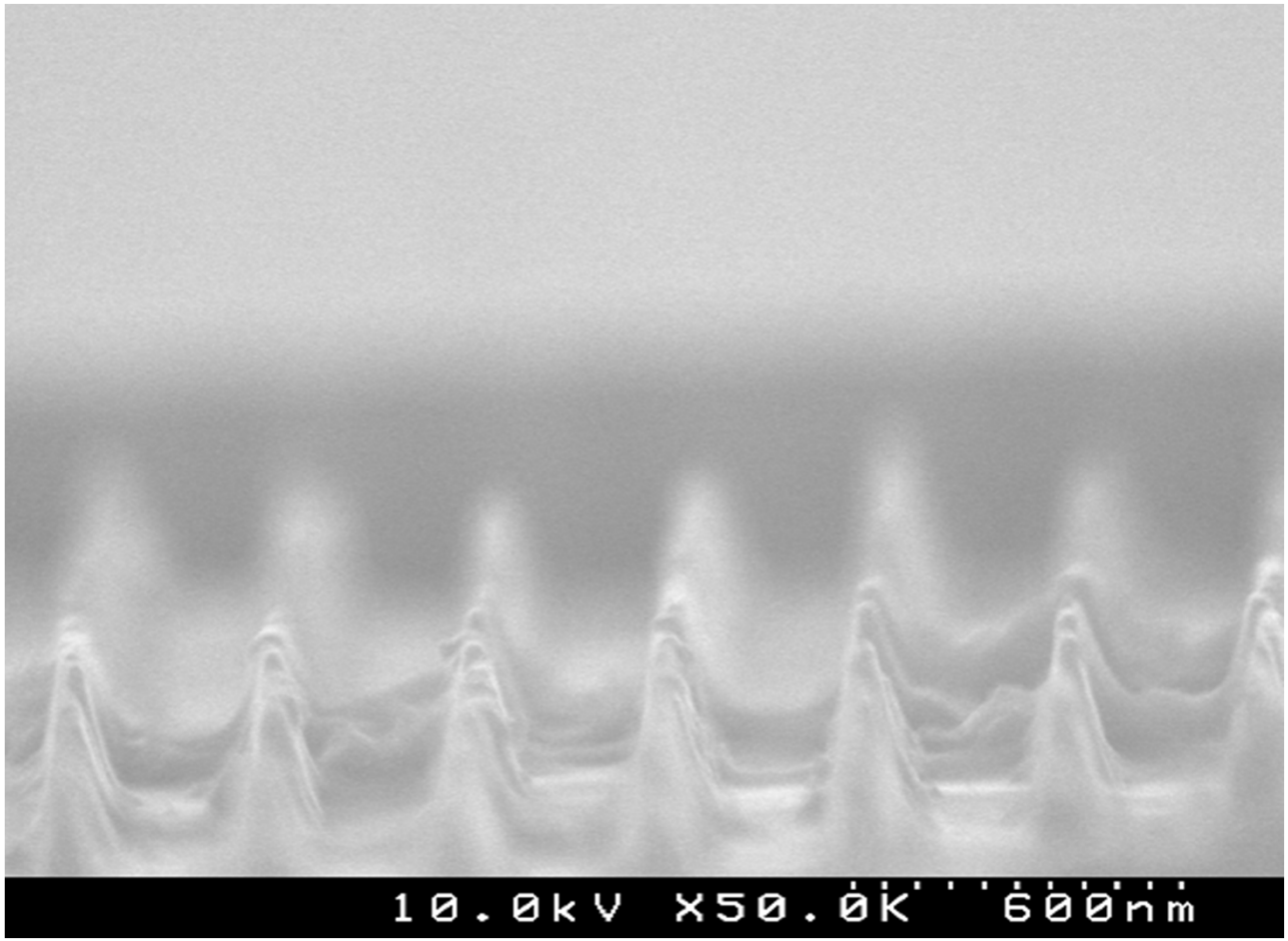
Magnification: 67 k X

Instrument: Supra 55VP

Submitted by: Vaida Auzelyte

Affiliation: Paul Scherrer Institute, LMN group

2007 micro & nano - graph Contest



micro & nano - graph Title:

Guilin Valley Scene in China

Description:

The whole and tilted SEM image of damaged LiNbO3 Bragg gratings. The gratings are overly etched, until the mask vanished.

Magnification: 50 k X

Submitted by: Asamira Suzuki

Instrument: Hitach S5000

Affiliation: Advanced Technology Research Laboratories, Matsushita Electric Industrial Co., Ltd.

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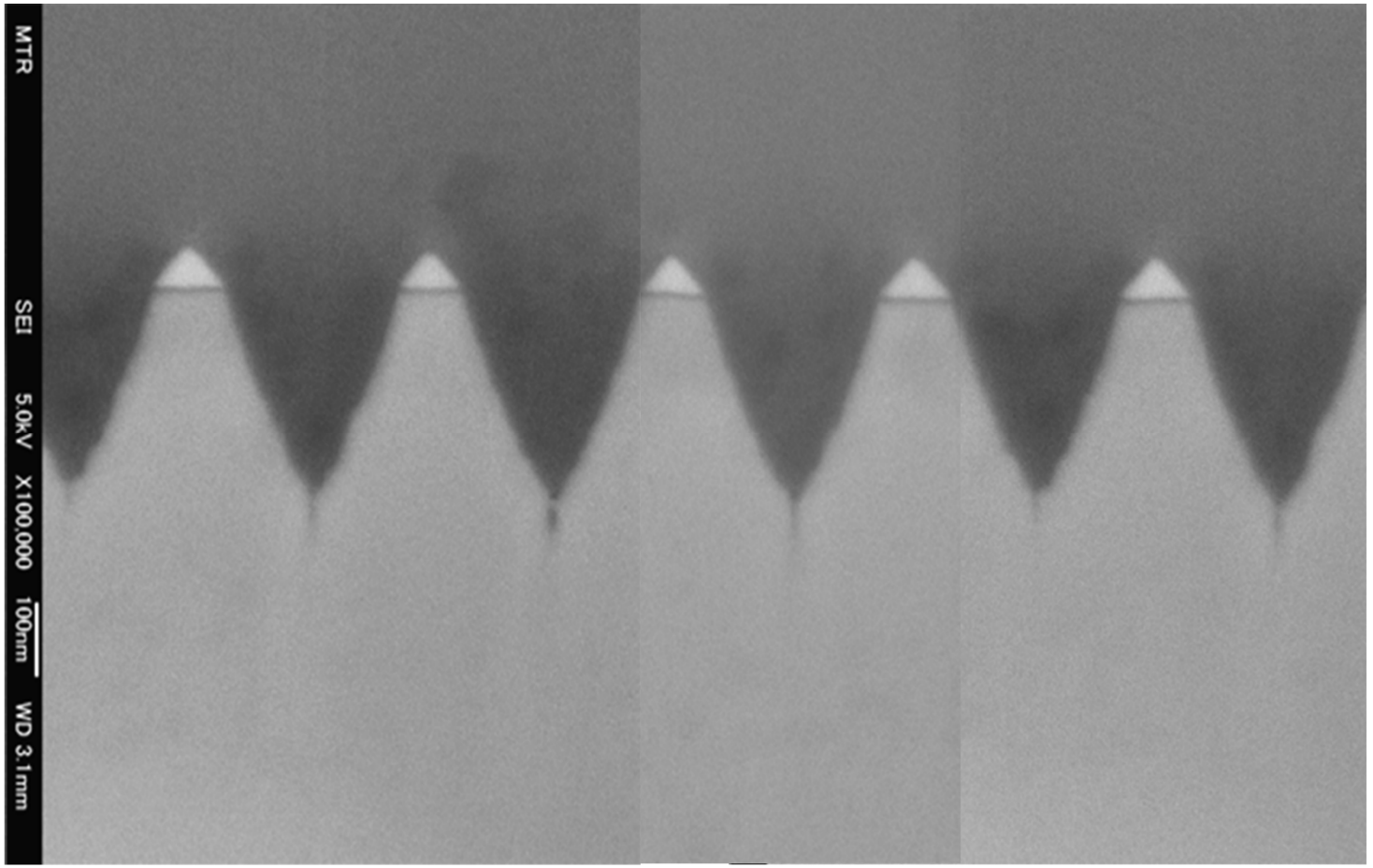


micro & nano - graph Title:

Mountain chain covered with snow

Description:
The cross-sectional SEM image of LiNbO3 substrate etched with Cr metal mask.

Magnification: 100 k X

Submitted by: Asamira Suzuki

Instrument: JEOL JSM-6700F

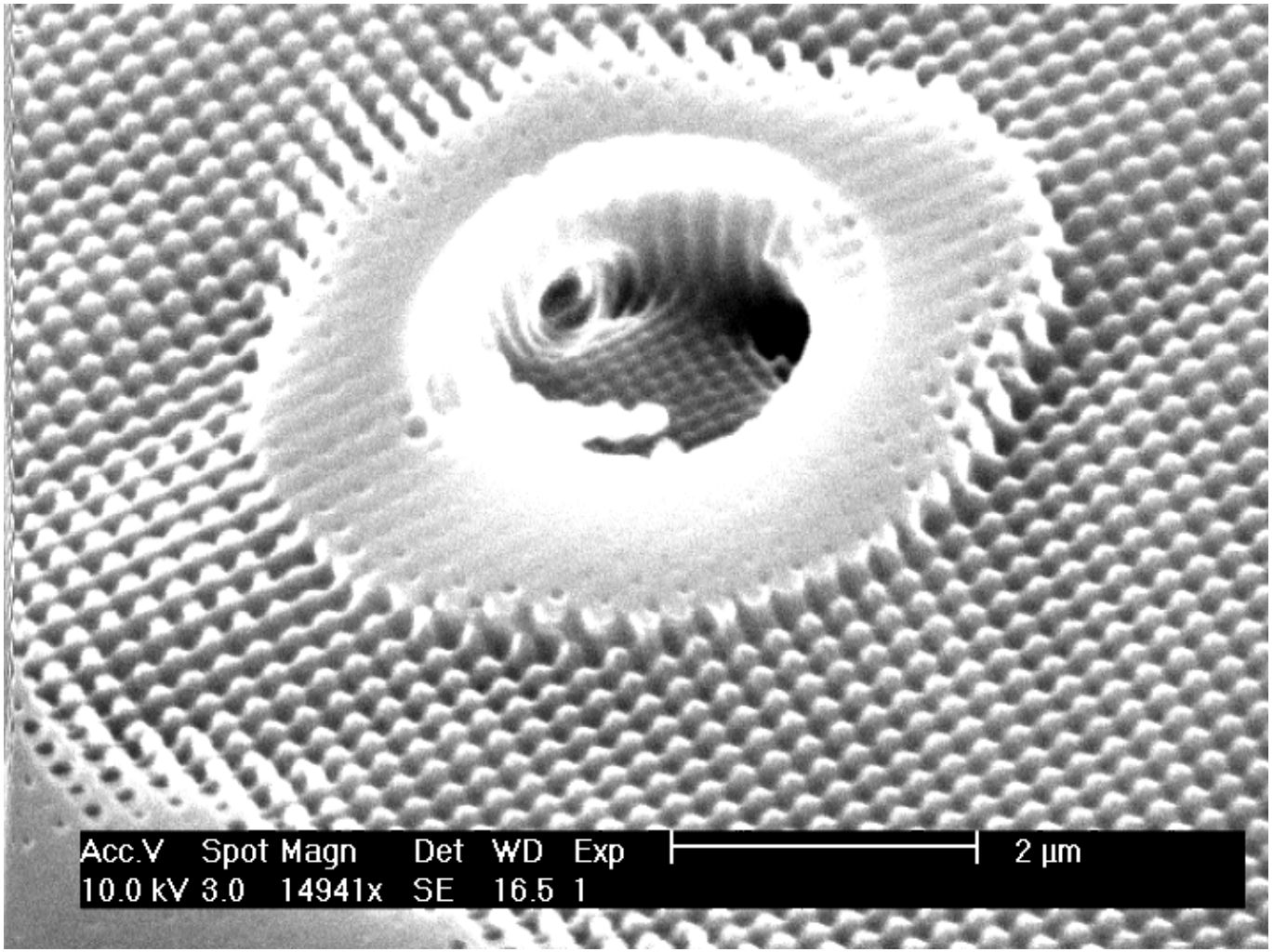
Affiliation: Advanced Technology Research Laboratories, Matsushita Electric Industrial Co., Ltd.

2007 micro & nano - graph Contest

micro & nano - graph Title:

SubWorm Hole

Description:
Originated during etching of spray coated resist on a glass sample. Nanopattern has been interferometrically exposed.



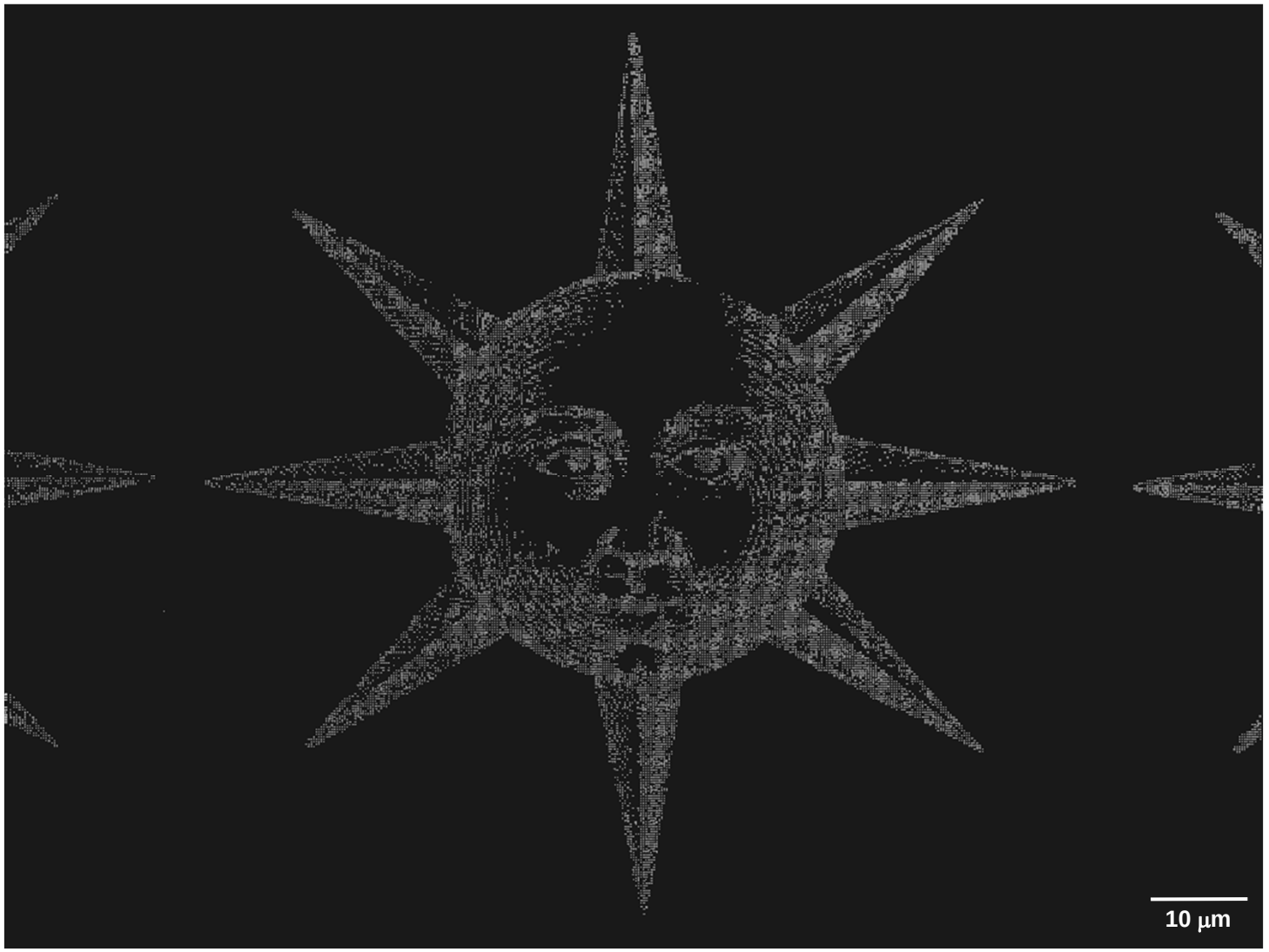
Magnification: 14,9 k X

Instrument: JOEL JSM 6300

Submitted by: Birgit Päivänranta

Affiliation: JOE - Joensuu

2007 micro & nano - graph Contest



micro & nano - graph Title:

Nano-Sun

Description:
Robert Fludd's sun (*anno* 1617) assembled of ~ 20,000 individual 60-nm gold crystals and printed onto a silicon surface.

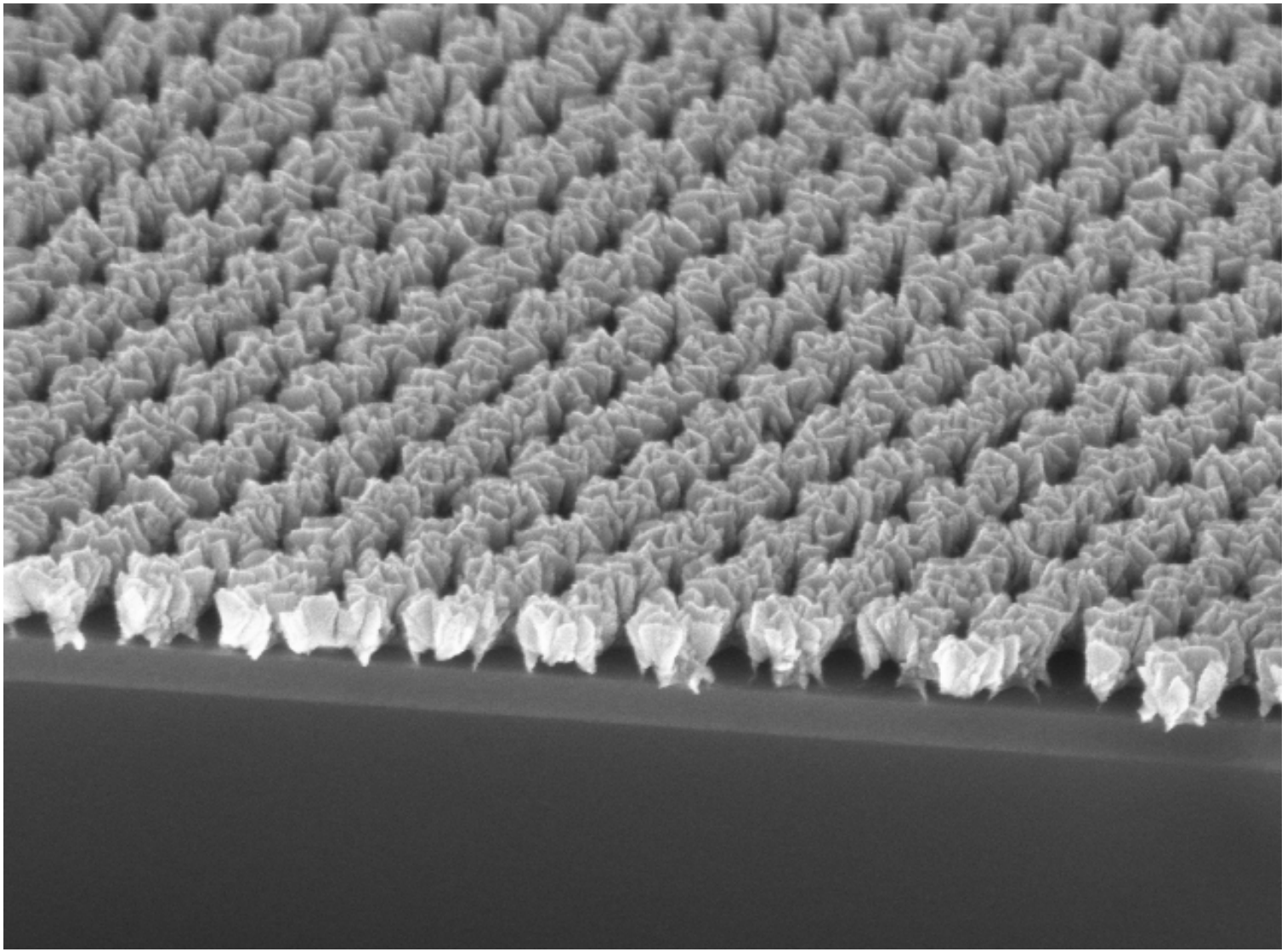
Magnification: 0.78 k X (3"x4" image)

Instrument: SEM LEO 1550

Submitted by: Andrea Decker

Affiliation: IBM Zurich Research Laboratory, Switzerland

2007 micro & nano - graph Contest



micro & nano - graph Title:

Salad Plantation

Description: Glancing angle deposition of Cr onto a nanostructure produced with EUV-IL

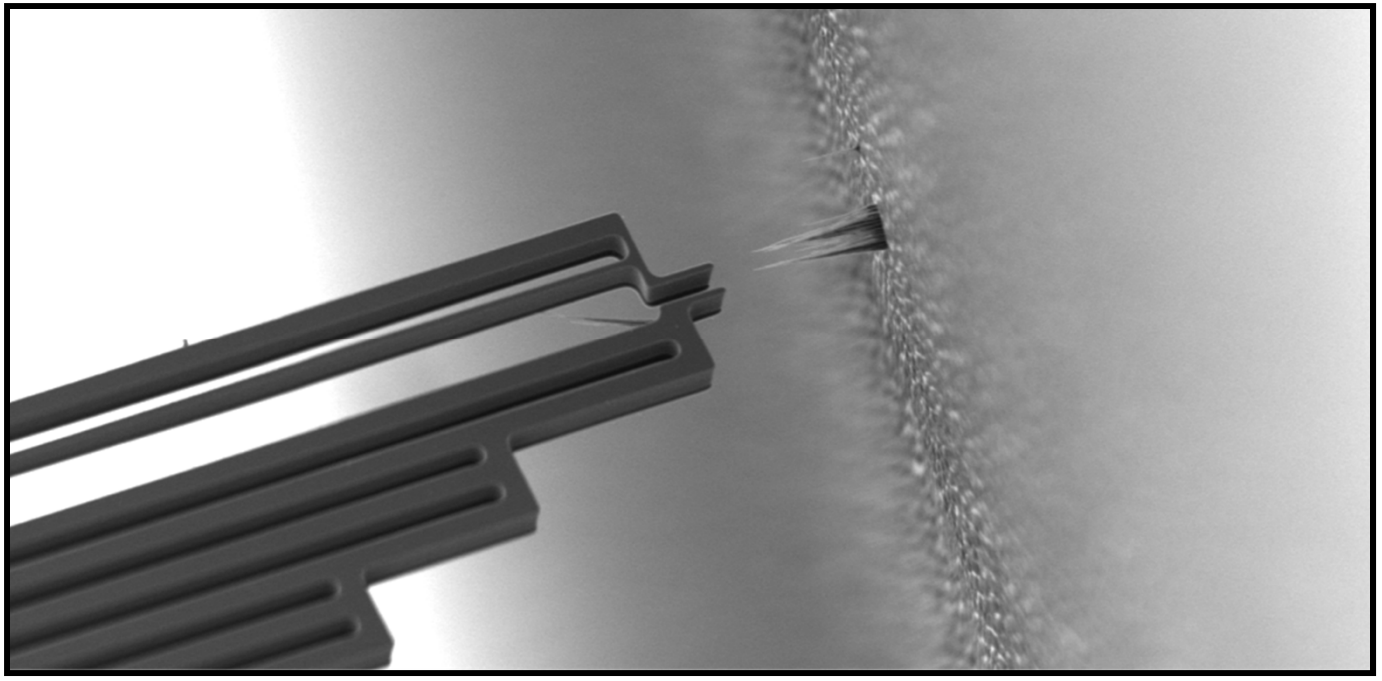
Magnification: 100 k X

Instrument: Zeiss SUPRA 55VP

Submitted by: C. Padeste / F. Zoller

Affiliation: Paul Scherrer Institut, Villigen PSI, Switzerland

2007 micro & nano - graph Contest



micro & nano - graph Title:

Nano-epilage

Description:
A silicon microgripper (left) is ready to pluck a bunch of carbon nanofibres (right) resembling hair, only 1000 times smaller. Another fiber is sticking to the microgripper due to the ever-present surface forces. The microgripper developed at the MIC, Technical University of Denmark uses thermal expansion to deliver a force of up to 25 micro Newton. The experiment was performed using an advanced nanorobotic workstation inside a 3D scanning electron microscope at AMiR, University of Oldenburg, as a part of a European collaboration.

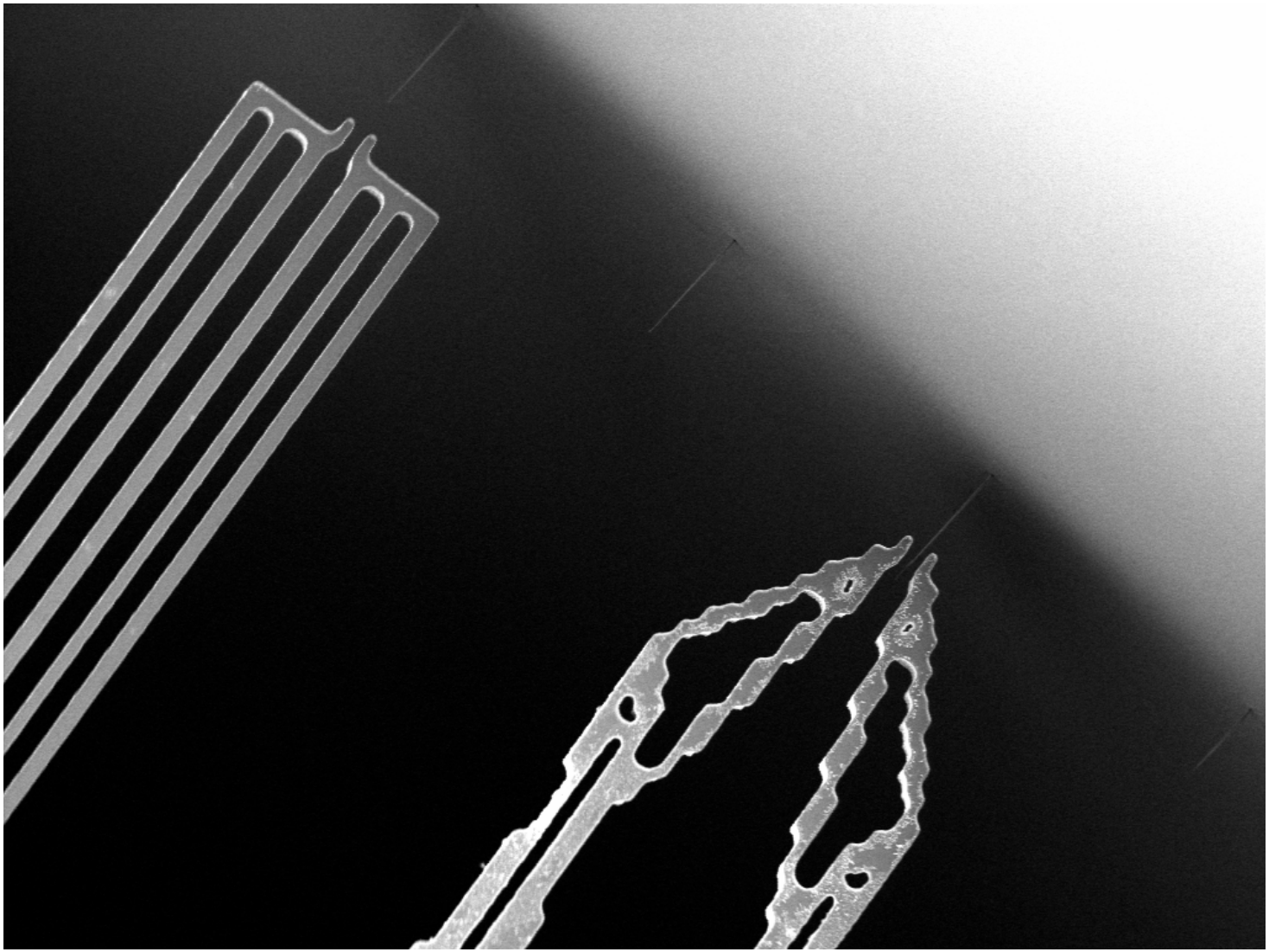
Magnification: 0.71 k X

Instrument: Leo SEM with prototype nanomanipulation tool

Submitted by: Karin N. Andersen

Affiliation: Technical University of Denmark, Denmark

2007 micro & nano - graph Contest



micro & nano - graph Title:

Photo Finish

Description:
2 polysilicon microgrippers-with a conventional design (left) and a topology optimized design (right)–are approaching to 2 CNTs simultaneously. Optimized design is one step ahead, being closer to the target…

Magnification: 1.5 k X

Instrument: SEM LEO 1450

Submitted by: Özlem Sardan

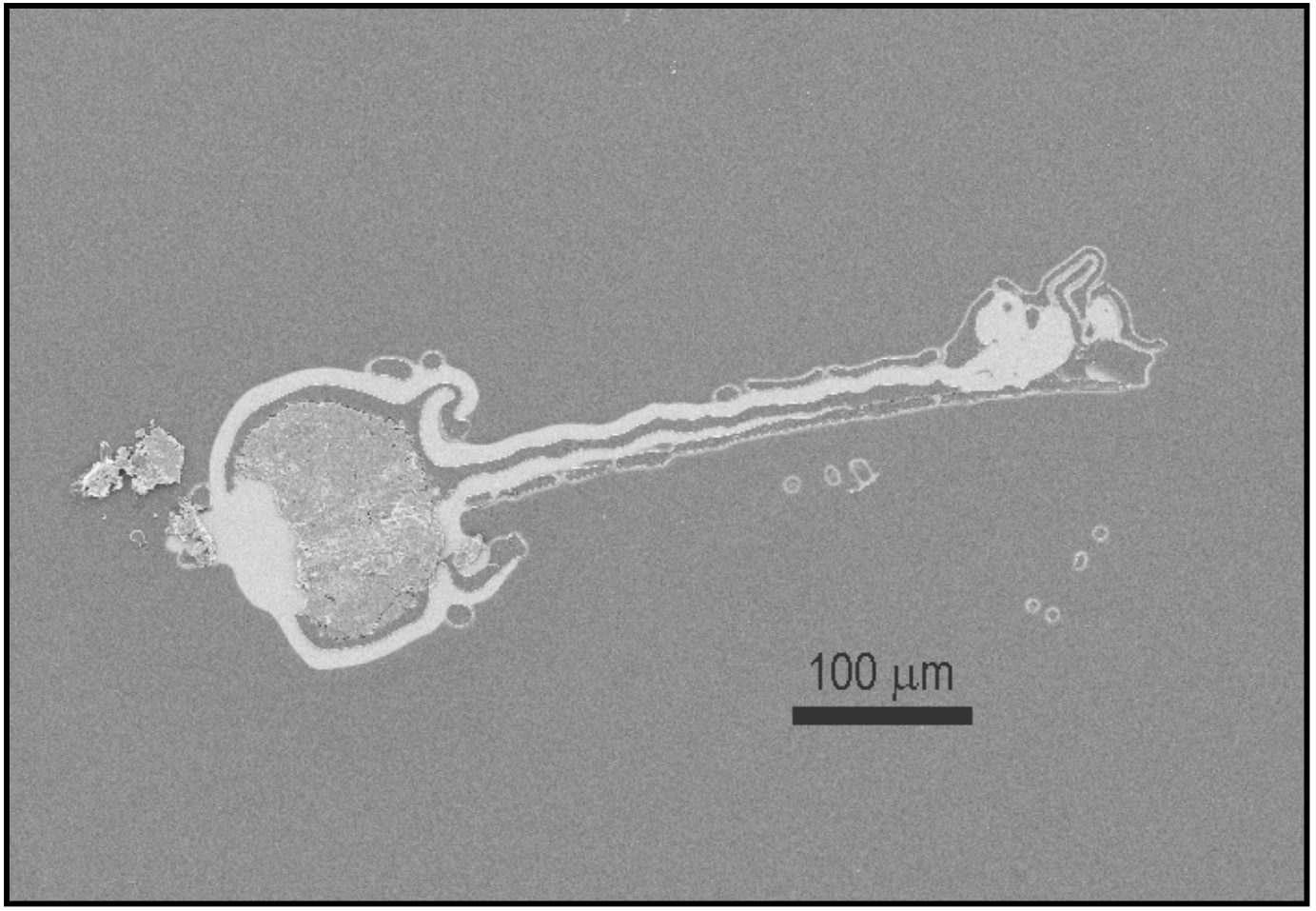
Affiliation: MIC-DTU, Denmark & AMIR-OU, Germany

2007 micro & nano - graph Contest

micro & nano - graph Title:

Heavy Metal

Description:
Self assembled structures of polymer formed during nanoimprint, metalized with aluminium.



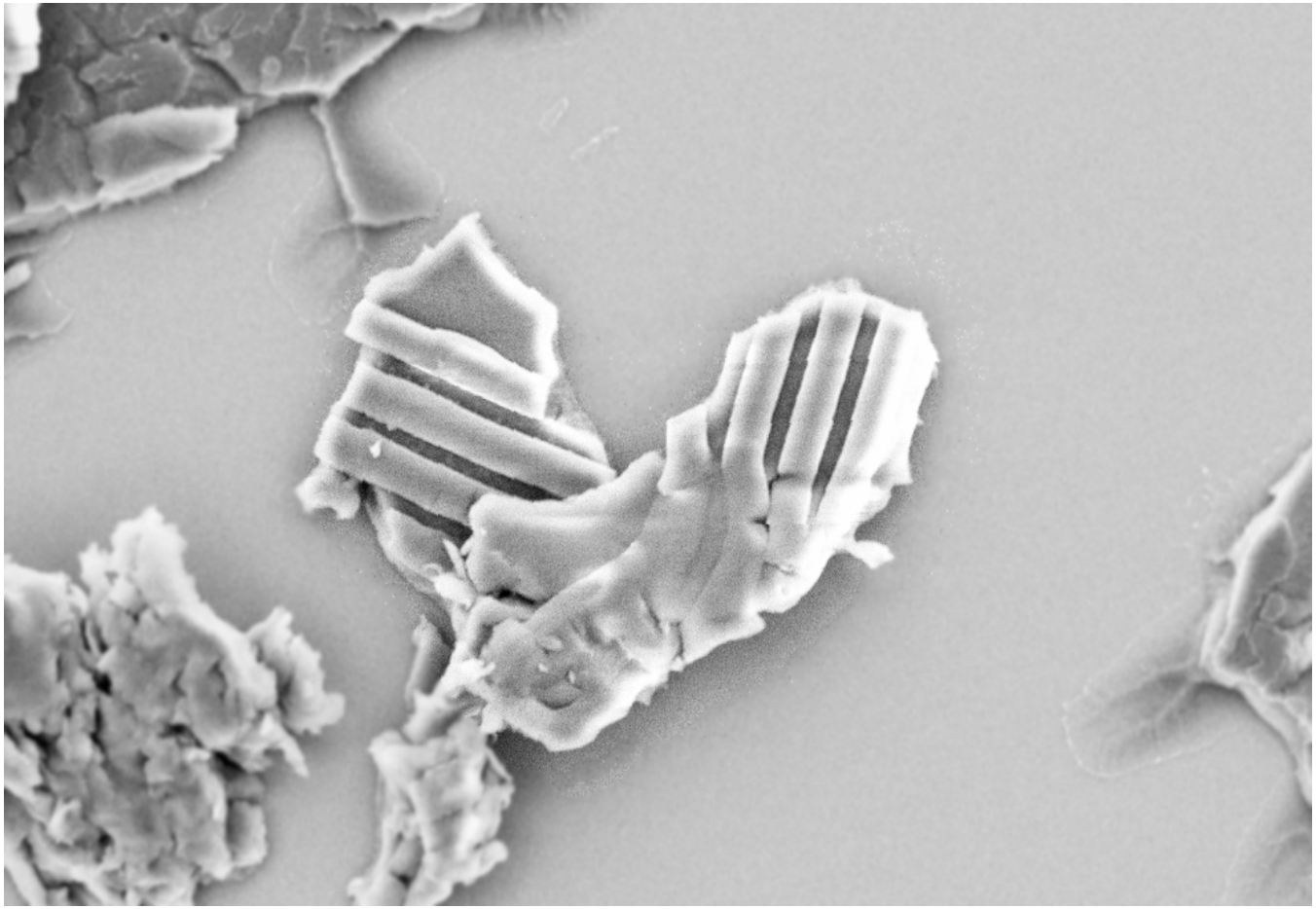
Magnification: 314 X
Instrument: SEM LEO 1530

Submitted by: Irene Fernandez Cuesta
Affiliation: CNM - Barcelona

2007 micro & nano - graph Contest

micro & nano - graph Title:

Broken Heart



Description:
Imprinted lines in PMMA, cracked and detached from the substrate.

Magnification: 9.94 k X

Instrument: SEM LEO 1530

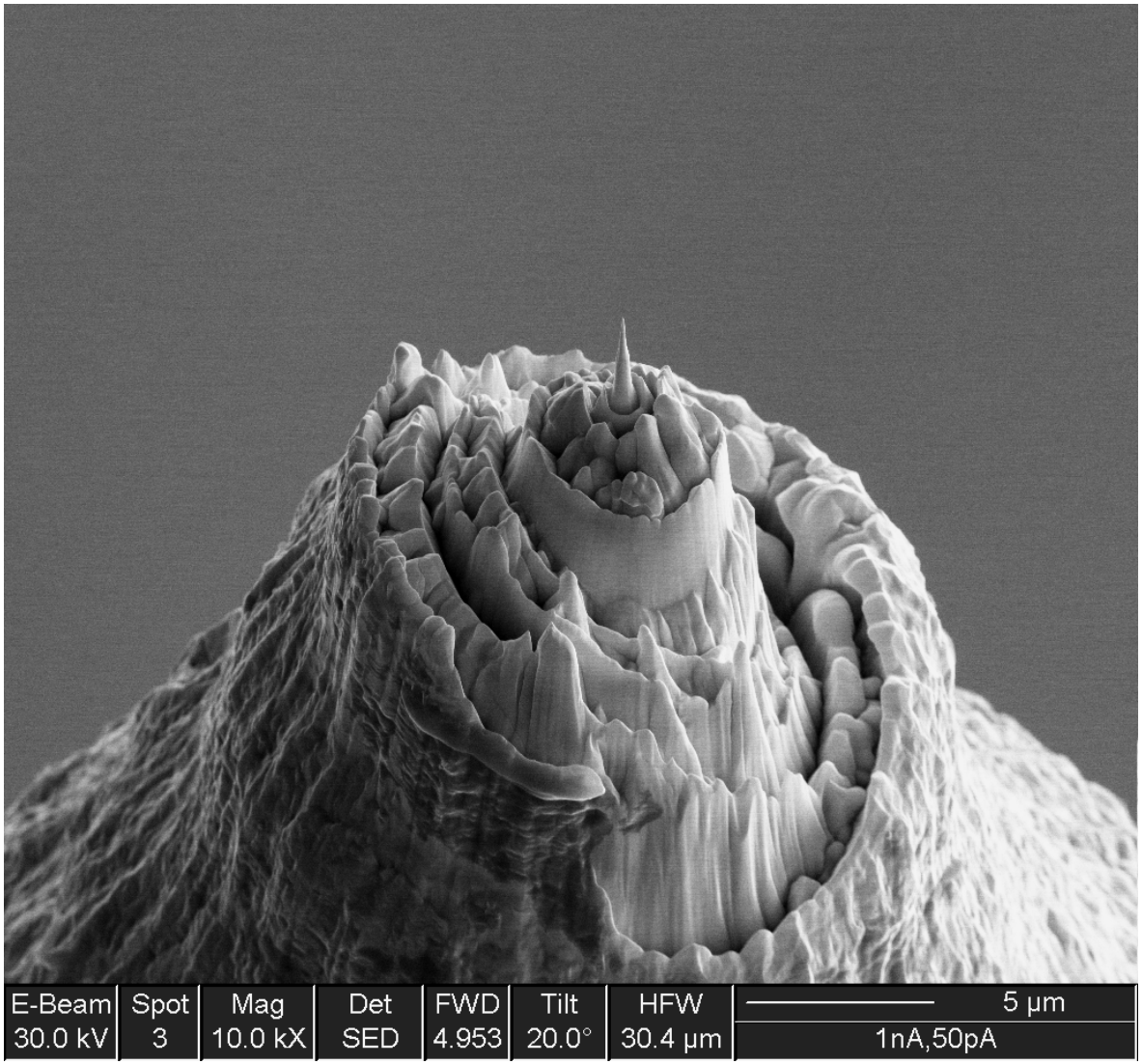
Submitted by: Irene Fernandez Cuesta

Affiliation: CNM - Barcelona

2007 micro & nano - graph Contest

micro & nano - graph Title:

Witch's rock



Description:
Explain what we are looking at and how it came to be:

Gold tip for apertureless SNOM, sharpened by FIB milling

Magnification: **10 k X**

Instrument: **SEM (FEI Dual Beam 235M)**

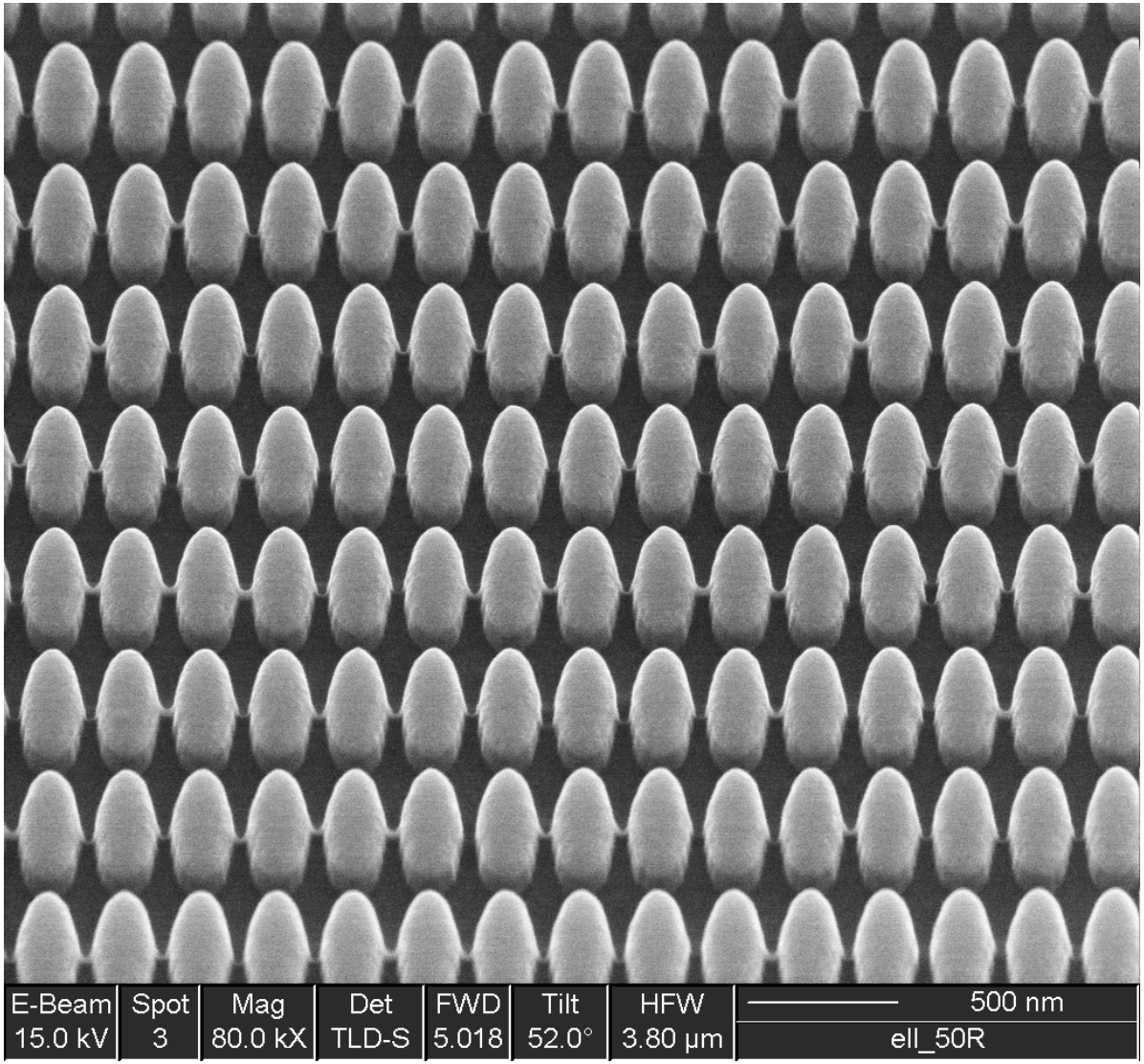
Submitted by: **Gian Carlo Gazzadi**

Affiliation: **CNR – INFM S3, Modena, Italy**

2007 micro & nano - graph Contest

micro & nano - graph Title:

Pill blisters



Description:
Explain what we are looking at and how it came to be:

Ellipsoids patterned on a NiFe/SmCo film by FIB milling

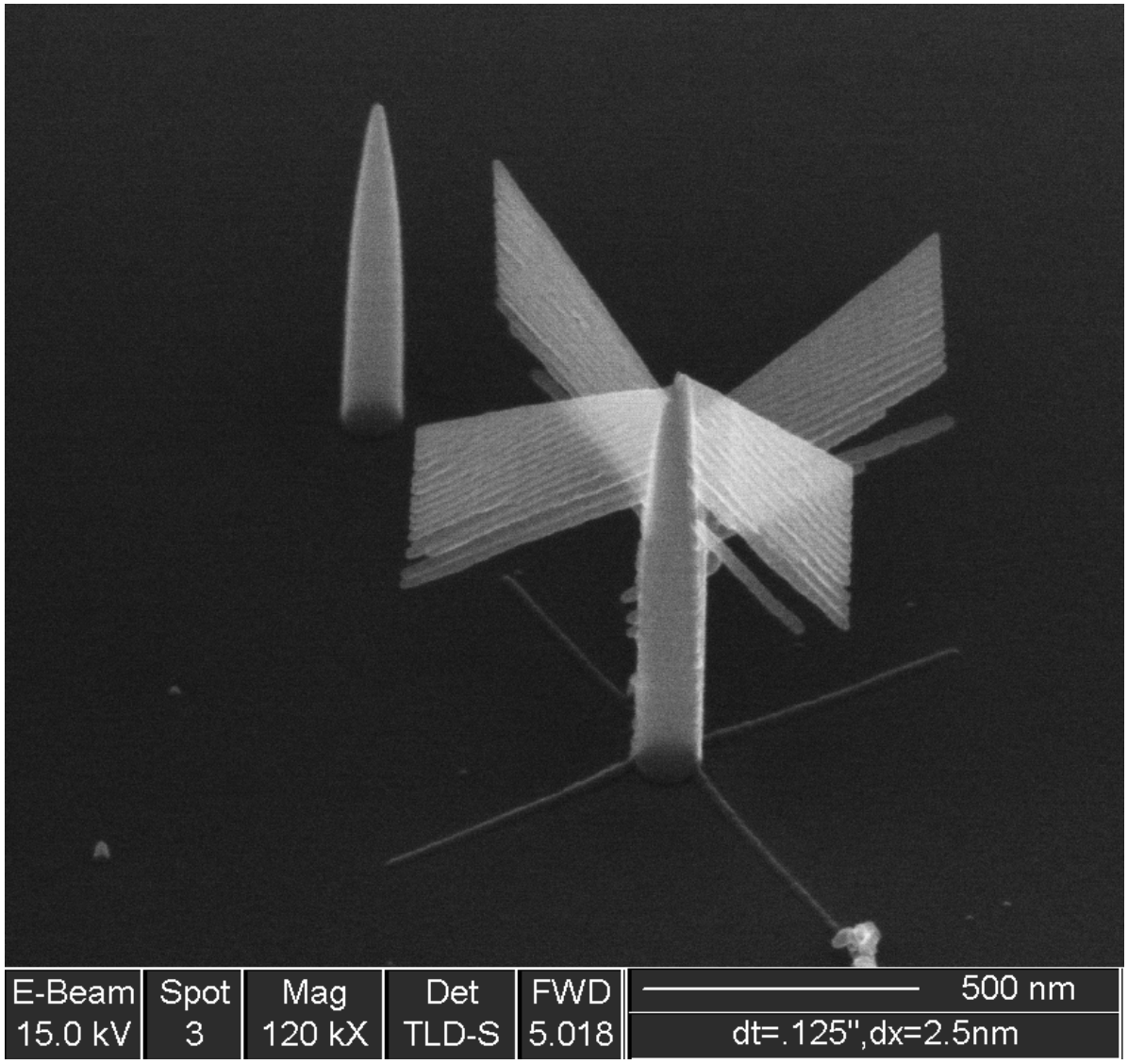
Magnification: 80 k X

Instrument: SEM (FEI Dual Beam 235M)

Submitted by: Gian Carlo Gazzadi

Affiliation: CNR – INFM S3, Modena, Italy

2007 micro & nano - graph Contest



micro & nano - graph Title:

Nano-windmill (drying-rack for rough people)

Description:
Explain what we are looking at and how it came to be:

Suspended TEOS nanostructures deposited with electron beam.

Magnification: **120 k X**

Instrument: **SEM (FEI Dual Beam 235M)**

Submitted by: **Gian Carlo Gazzadi**

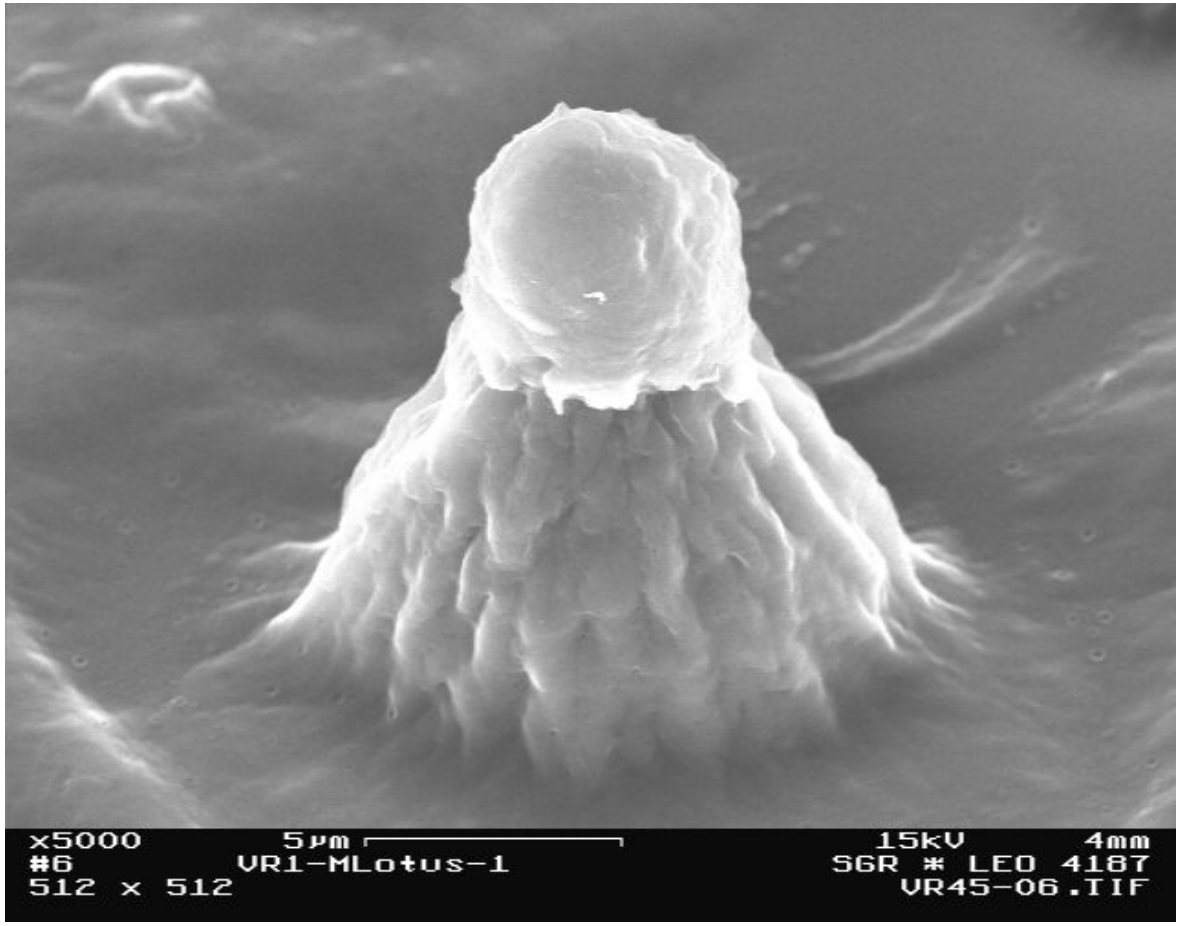
Affiliation: **CNR – INFM S3, Modena, Italy**

2007 micro & nano - graph Contest

micro & nano - graph Title:

Erupting volcano

Description:
Replication in a sol gel material of the lotus leaf. The imprinted bump corresponding to a bump on lotus leaf



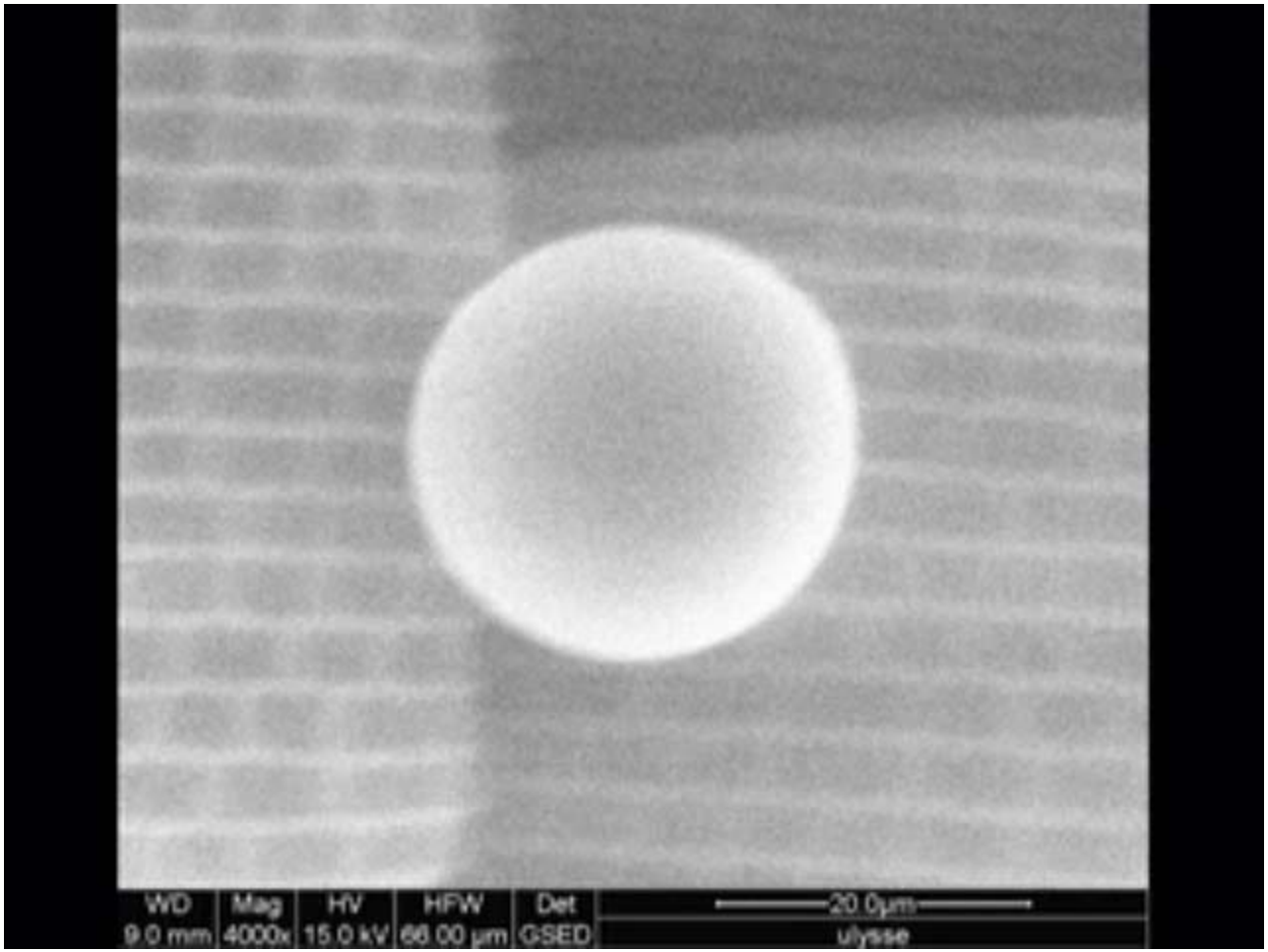
Magnification: x5000

Submitted by: C. Peroz

Instrument: Zeiss DSM 982 Gemini FEG

Affiliation: CNRS/Saint-Gobain Recherche

2007 micro & nano - graph Contest



micro & nano - graph Title:

And the butterfly dries…

Description:
Water droplet on butterfly scale : boiling off on controlled pressure. The experiment is performed by decreasing the pressure in the SEM Environmental configuration.

Magnification: x400

Instrument: Fei Quanta 400 ESEM

Submitted by: C. Peroz

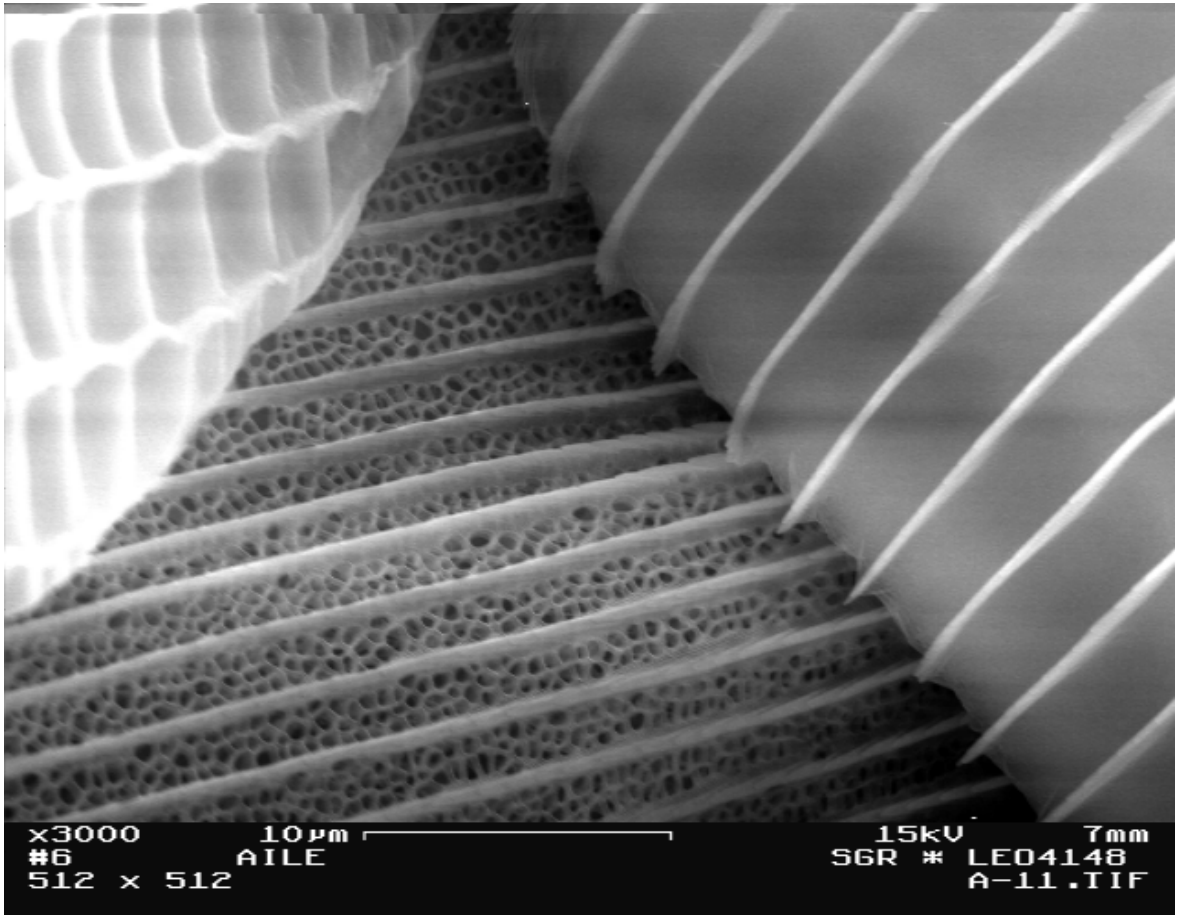
Affiliation: CNRS/Saint-Gobain Recherche

2007 micro & nano - graph Contest

micro & nano - graph Title:

From the darkness to the light

Description:
Butterfly structures: pigment scales (bottom) and structural layer (side) to generate physical color



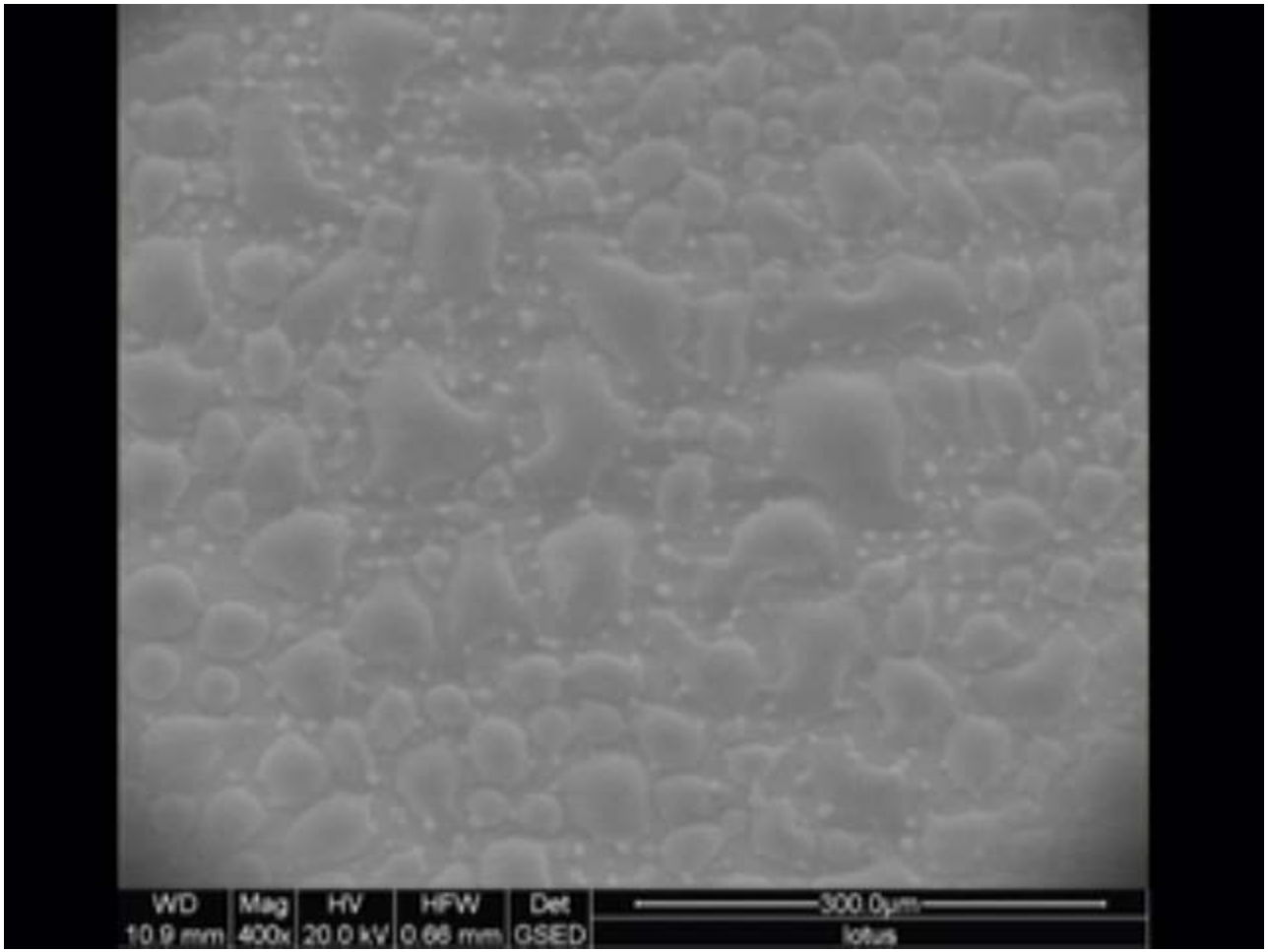
Magnification: x3000

Submitted by: C. Peroz

Instrument: Zeiss DSM 982 Gemini FEG

Affiliation: CNRS/Saint-Gobain Recherche

2007 micro & nano - graph Contest



micro & nano - graph Title:

Getting together

Description:
Condensation of water on replicated surface (sol gel materials) of lotus leaf.
SEM Environmental configuration

Magnification: x400

Instrument: Fei Quanta 400 ESEM

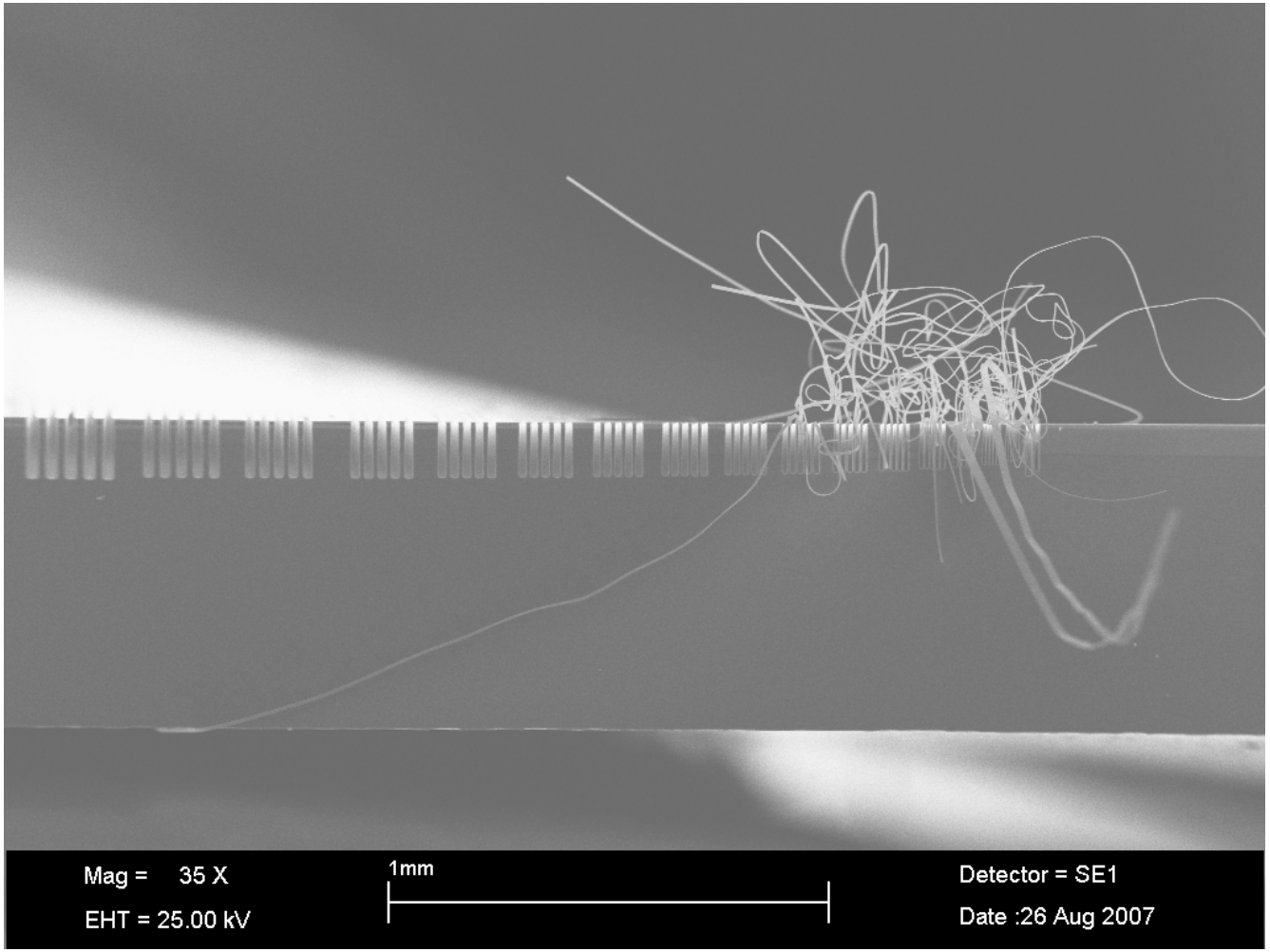
Submitted by: C. Peroz

Affiliation: CNRS/Saint-Gobain

2007 micro & nano - graph Contest

micro & nano - graph Title:

Fireworks in the small part of town



Description: Silicon DRIE etched linewidths but due to material stress and adhesion issues the small areas peeled easily during cleave step.

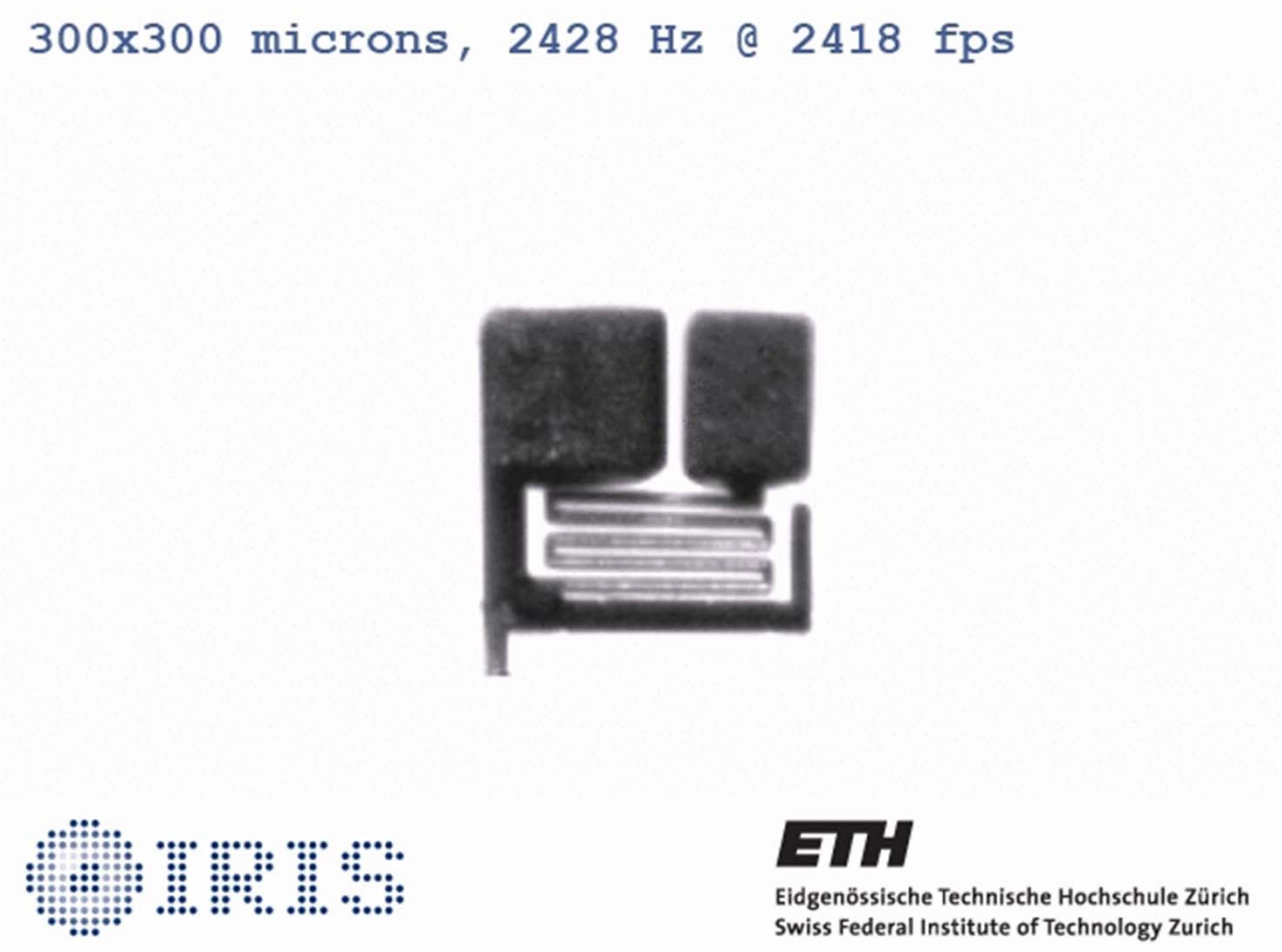
Magnification: 35 X

Instrument: Leo 440 SEM

Submitted by: Darren Hughes

Affiliation: Surface Technology Systems PLC, Newport, UK

2007 micro & nano - graph Contest



micro & nano - graph Title:

Movin'

Description:
The image shows the resonating action induced by an oscillating magnetic field of a wireless mobile microrobot.

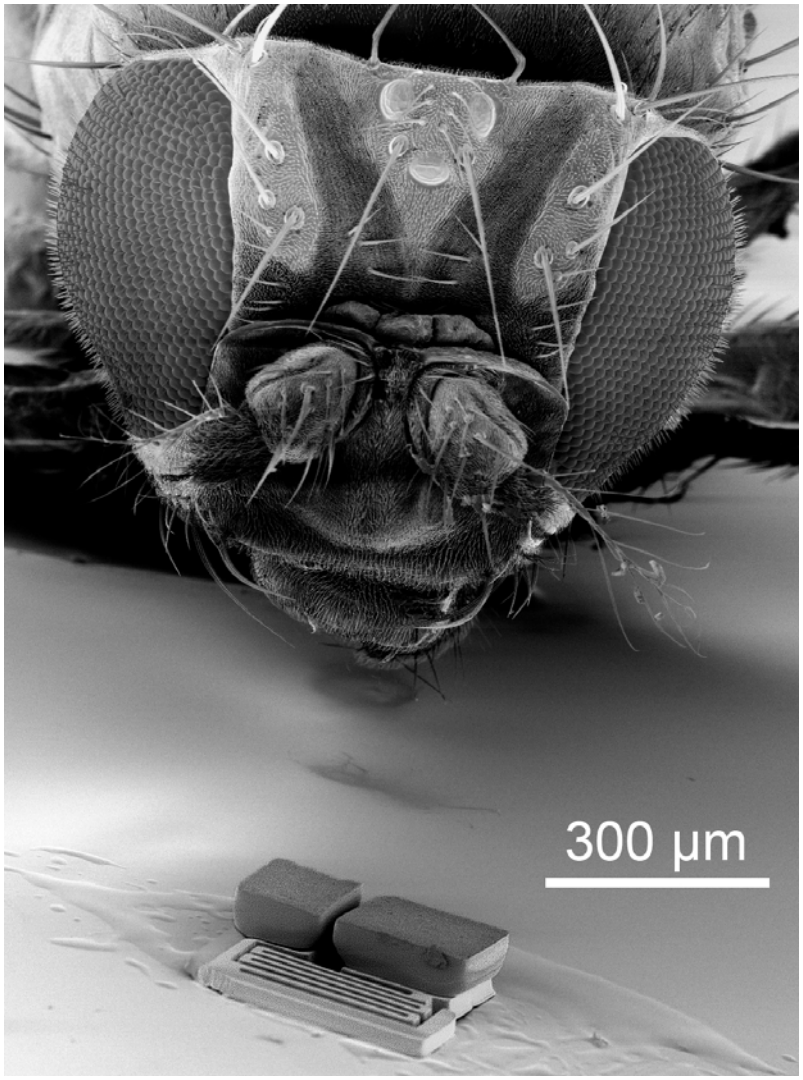
Magnification: On image

Instrument: Photon Focus MV-D1024 TrackCam

Submitted by: Dominic Frutiger & Bradley J. Nelson

Affiliation: Institute of Robotics and Intelligent Systems (IRIS) ETH, Zurich

2007 micro & nano - graph Contest



micro & nano - graph Title:

The Power of Nature

Description:
The image shows a wireless mobile microrobot alongside a *drosophila melanogaster*, which provides a dramatic contrast between the complexity of microfabricated agents and those found in nature.

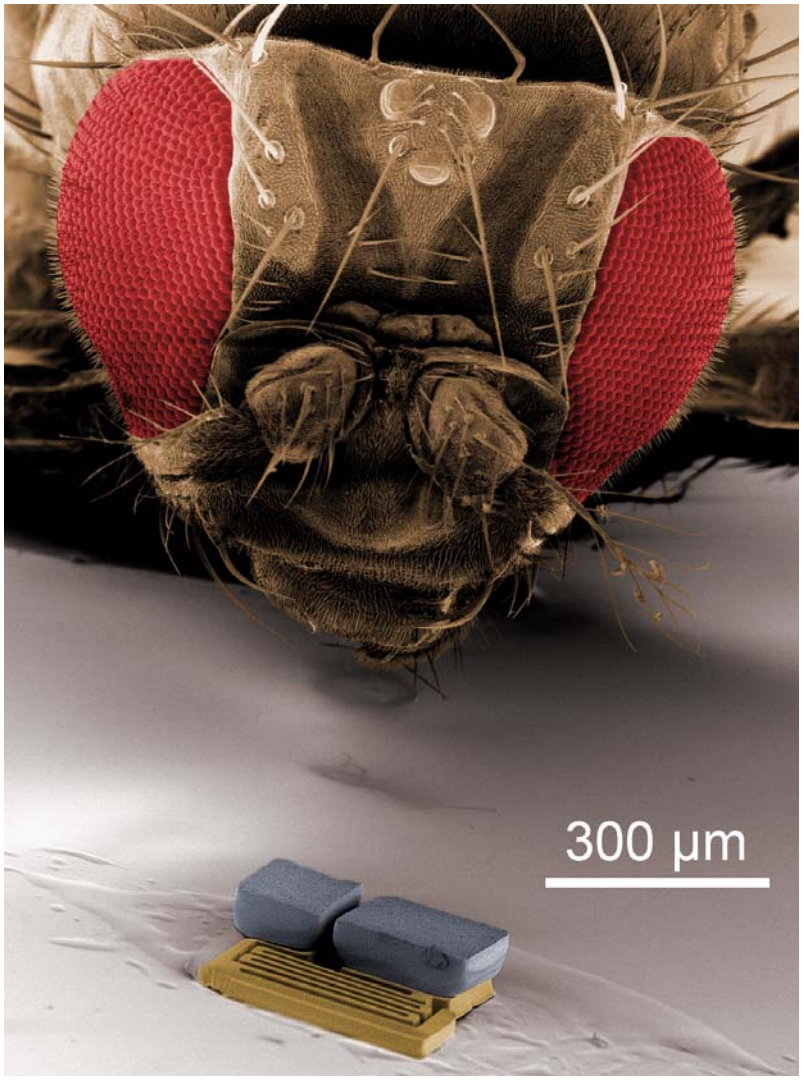
Magnification: On image

Instrument: Zeiss DSM 962

Submitted by: Bradley E. Kratochvil & Bradley J. Nelson

Affiliation: Institute of Robotics and Intelligent Systems (IRIS) ETH, Zurich

2007 micro & nano - graph Contest



micro & nano - graph Title:

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Description:
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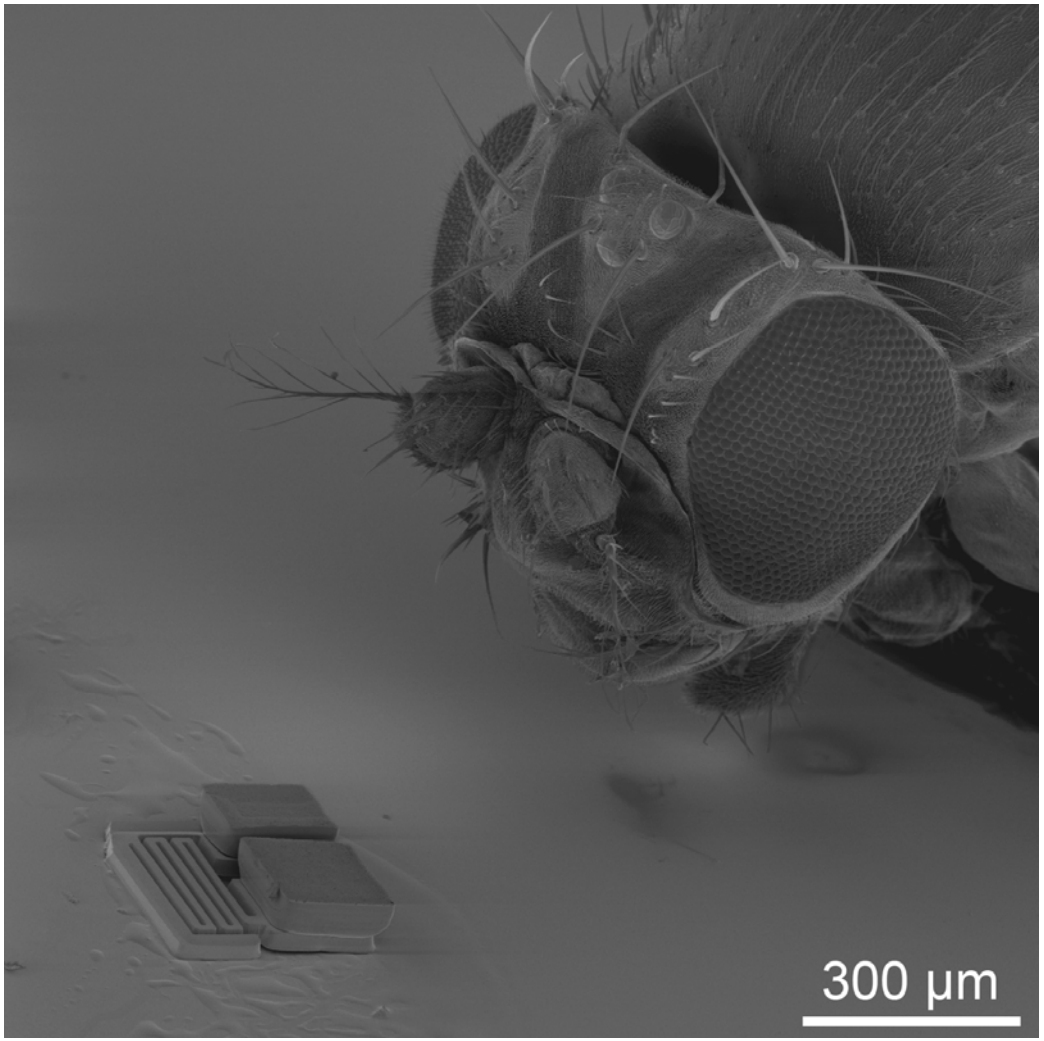
Affiliation: Institute of Robotics and Intelligent Systems (IRIS) ETH, Zurich

2007 micro & nano - graph Contest



micro & nano - graph Title:

Complexity

Description:
The image shows a wireless mobile microrobot alongside a *drosophila melanogaster*, which provides a dramatic contrast between the complexity of microfabricated agents and those found in nature.

Magnification: On image

Instrument: Zeiss DSM 962

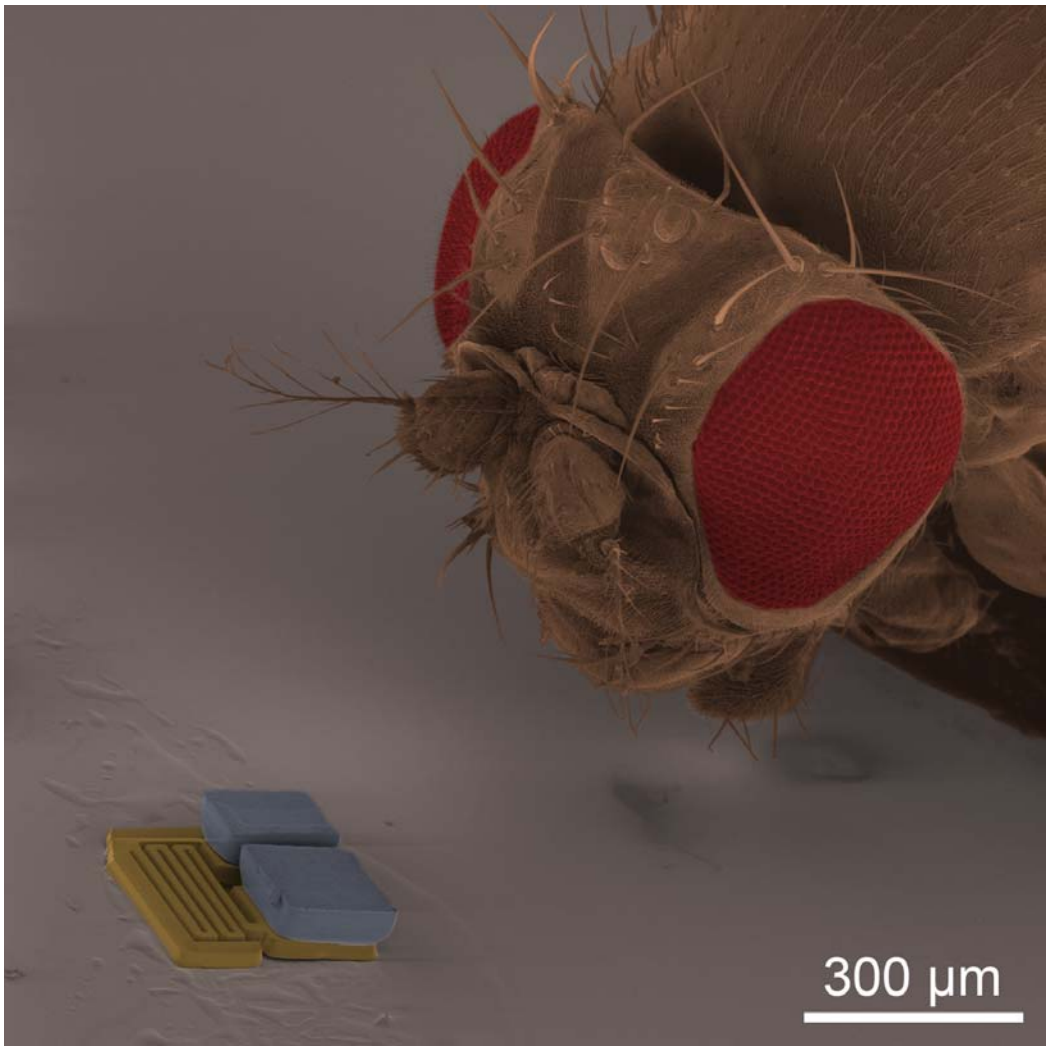
Submitted by: Bradley E. Kratochvil & Bradley J. Nelson

Affiliation: Institute of Robotics and Intelligent Systems (IRIS) ETH, Zurich

2007 micro & nano - graph Contest

micro & nano - graph Title:

Complexity



Description:
The image shows a wireless mobile microrobot alongside a *drosophila melanogaster*, which provides a dramatic contrast between the complexity of microfabricated agents and those found in nature.

Magnification: On image

Instrument: Zeiss DSM 962

Submitted by: Bradley E. Kratochvil & Bradley J. Nelson

Affiliation: Institute of Robotics and Intelligent Systems (IRIS) ETH, Zurich

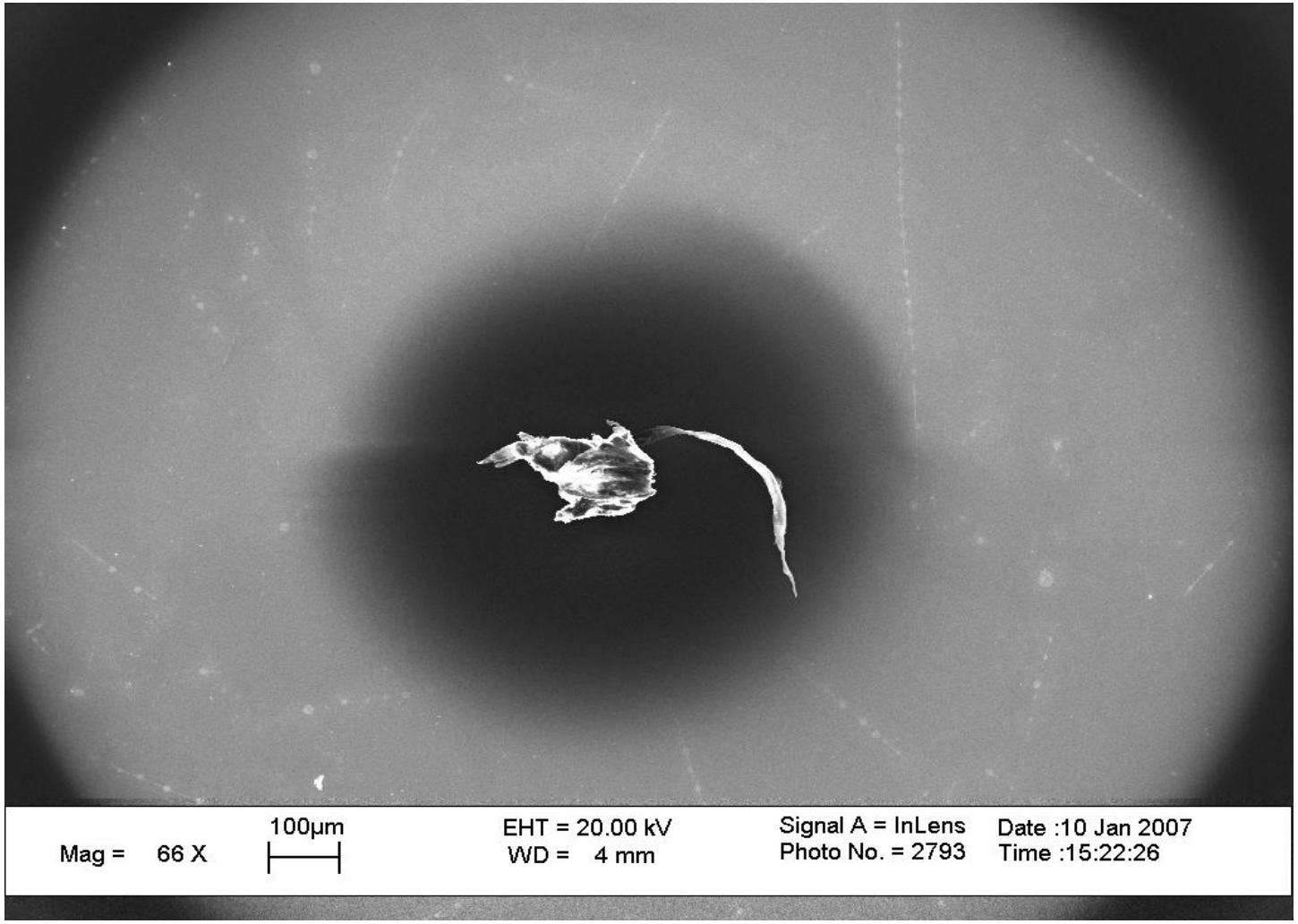
2007 micro & nano - graph Contest

micro & nano - graph Title:

Minimouse

Description:

Impurity on NEB35 resist after coating



Magnification: 66 X

Instrument: Raith Elphy Plus - SEM Zeiss 1525

Submitted by: Maria Chiara Ubaldi

Affiliation: CoreCom - Milano, IT

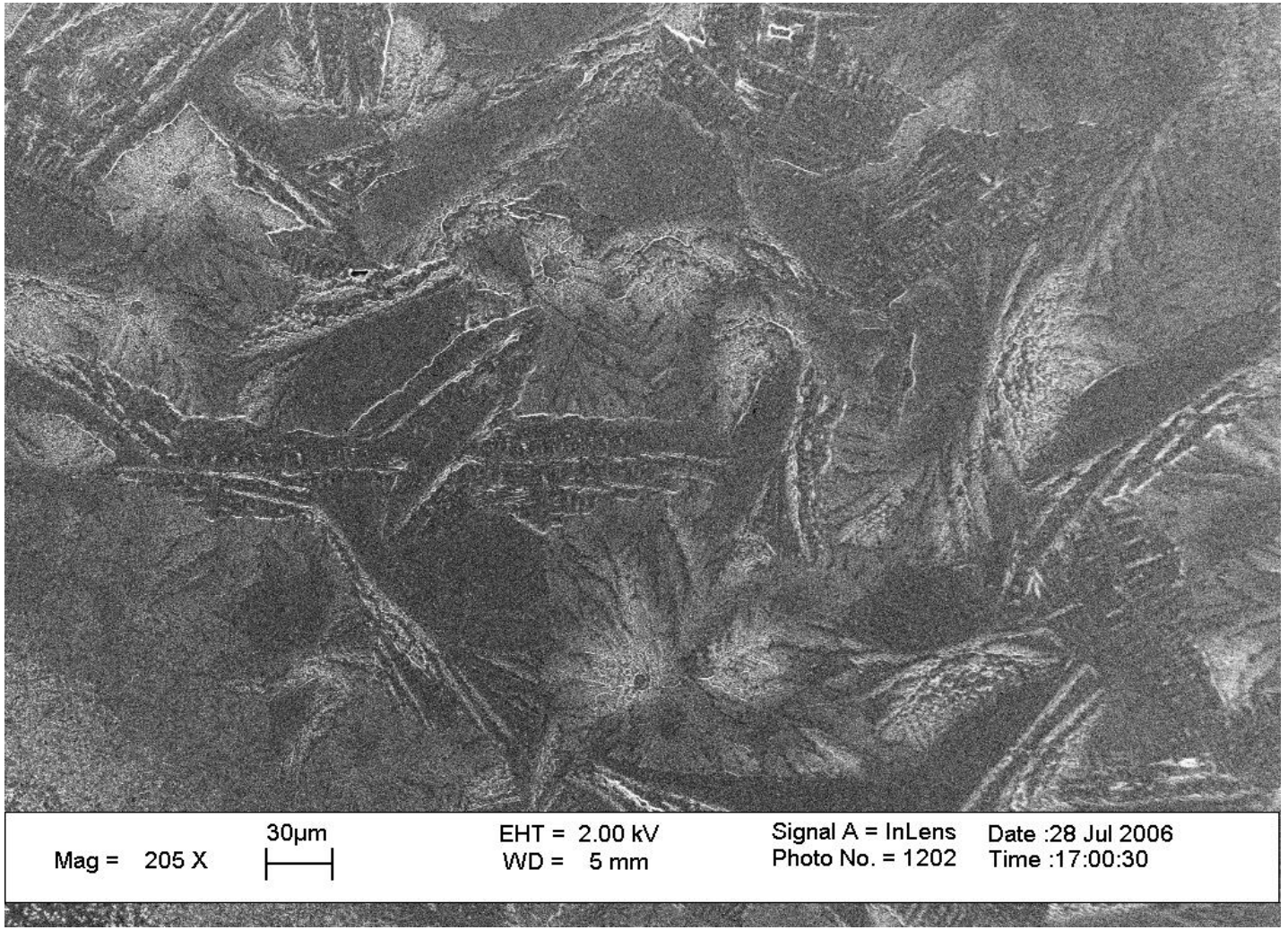
2007 micro & nano - graph Contest

micro & nano - graph Title:

Alpine chain air view

Description:

Impurity on NEB35 resist after coating



Magnification: 205 X

Instrument: Raith Elphy Plus - SEM Zeiss 1525

Submitted by: Maria Chiara Ubaldi

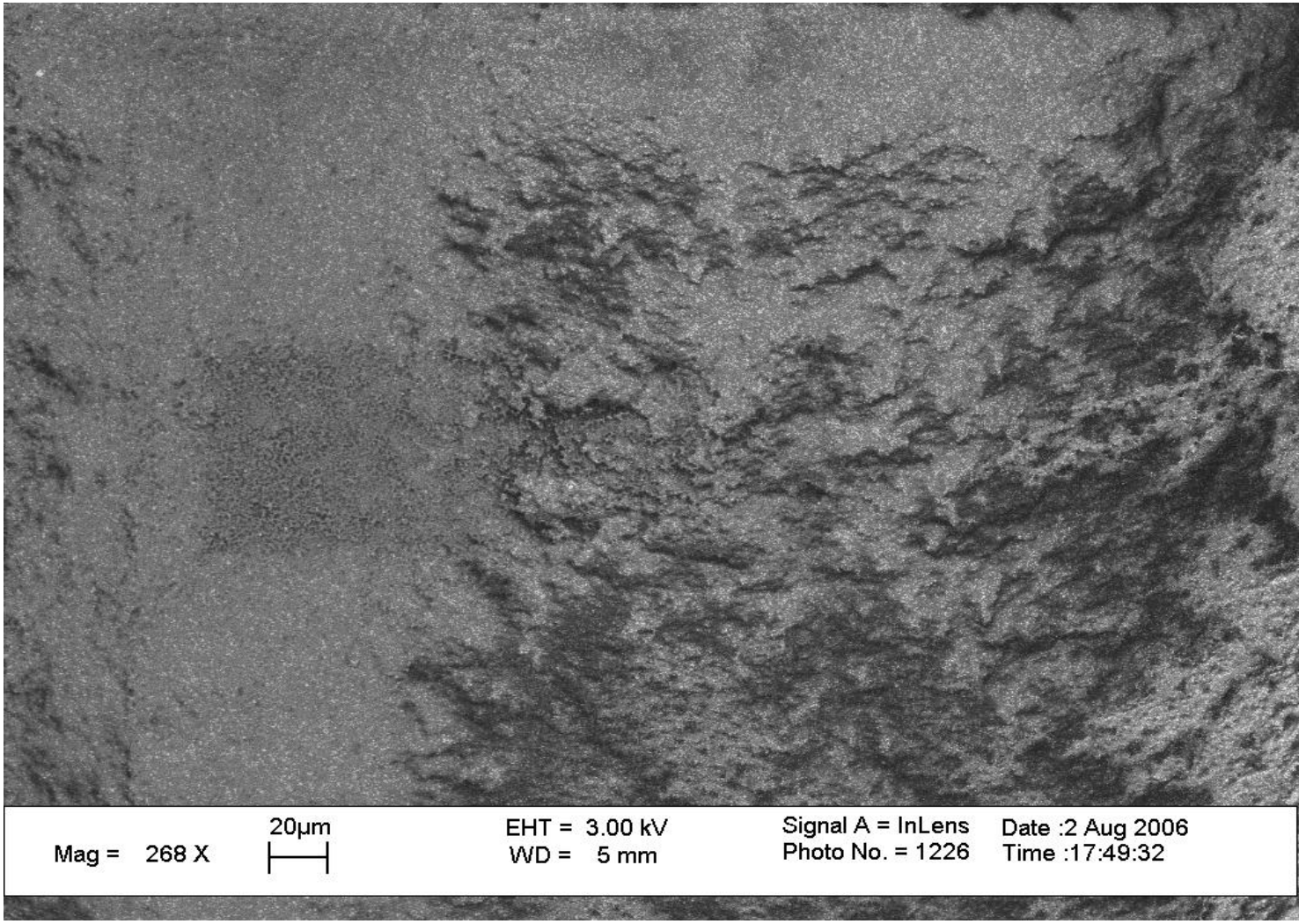
Affiliation: CoreCom - Milano, IT

2007 micro & nano - graph Contest

micro & nano - graph Title:

Casting of lava

Description:
Scratched aluminium surface

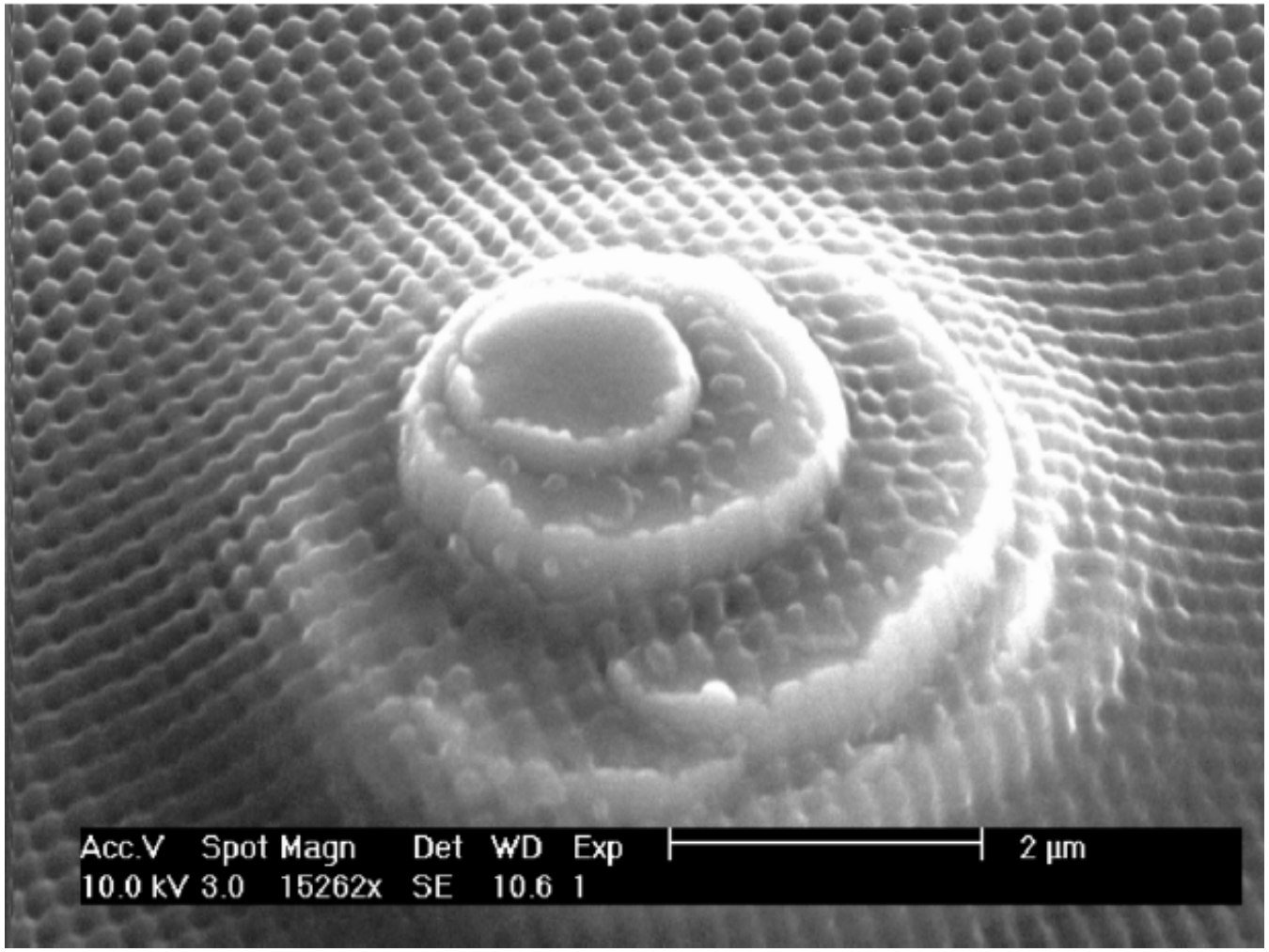


Magnification: 268 X
Instrument: Raith Elphy Plus - SEM Zeiss 1525
Submitted by: Maria Chiara Ubaldi
Affiliation: CoreCom - Milano, IT

2007 micro & nano - graph Contest

micro & nano - graph Title:

Maya-tower



Description:
Originated during etching of spray coated resist on a glass sample. Nanopattern has been interferometrically exposed.

Magnification: 15,3 k X

Instrument: JOEL JSM 6300

Submitted by: Birgit Päivänranta

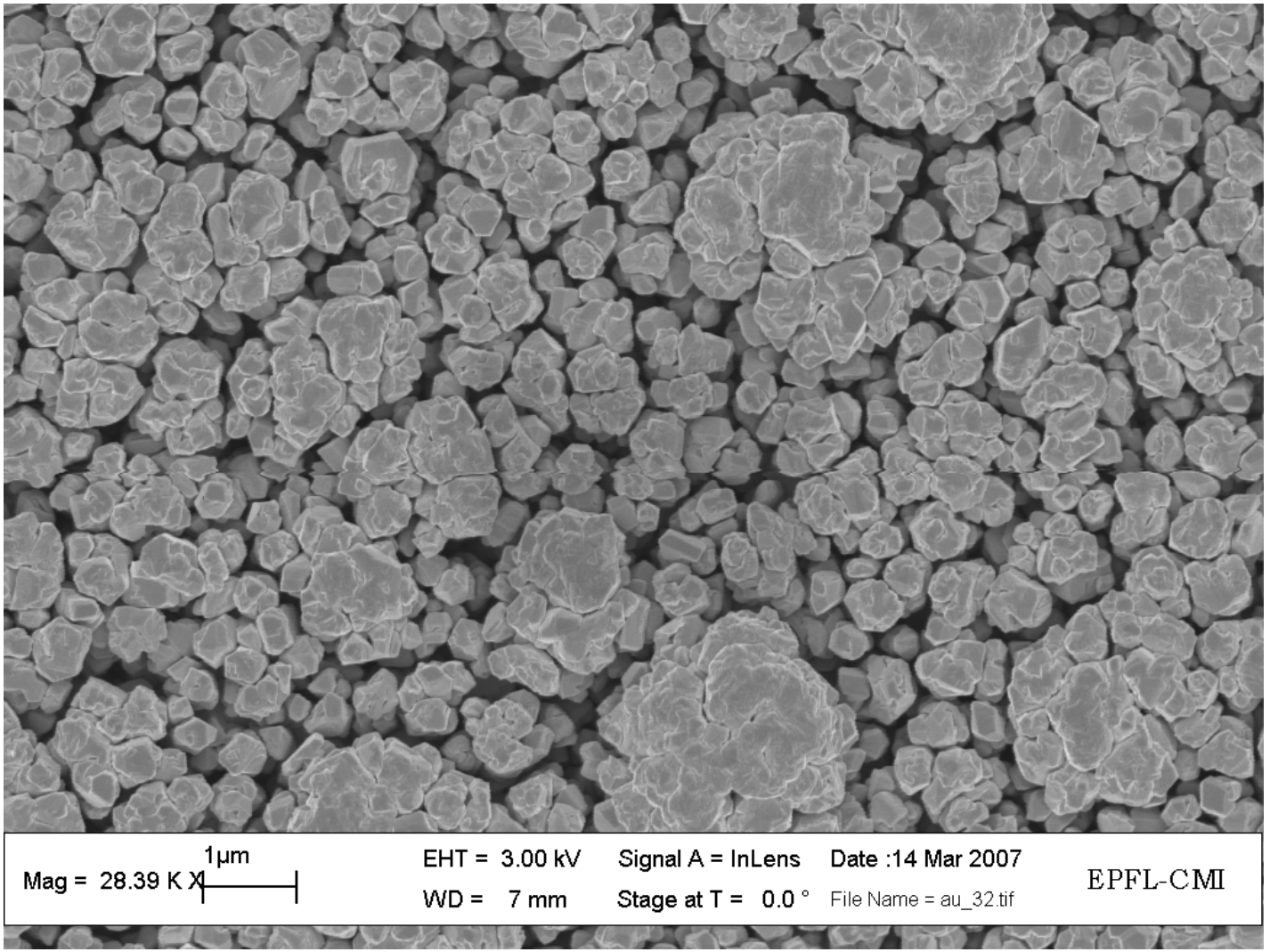
Affiliation: JOE - Joensuu

2007 micro & nano - graph Contest

micro & nano - graph Title:

Sweet Gold Cauliflower

Description:
Gold electroplating applying too high current density.



Magnification: 28.39 k X

Instrument: Zeiss LEO 1550, SEM

Submitted by: Montserrat F.-Bolaños

Affiliation: École Polytechnique Fédérale de Lausanne (EPFL)