



FIB goes LIVE- NanoScope introduces a unique innovation in outsourced services with 'FIB on the Web' consultancy.

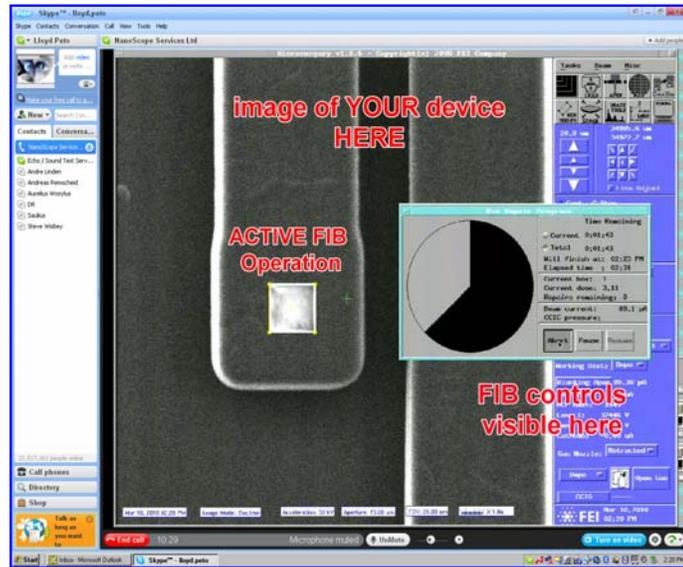
European Service Lab Update - Spring 2010

'FIB on the Web' brings high-end FIB applications to the comfort of your own office.

"As simple as having your own FIB-lab in house".

NanoScope is proud to launch this innovation in remote consultancy – which permits you to see and direct your circuit interventions/failure analysis/fab-quals in real-time, from the comfort of your own desk.

This unique approach is achieved by permitting **video conferencing** between you (our customers), the ion beam microscope image output itself, and our engineer performing the work. Made possible by using our in-house developed **LiveFIB™** capability.



You can see your device during calibration and intervention while discussing the process and design features **in real time** with the operator, and to consult on the process as it develops – solving any potentially time consuming issues, as they arise.

"This 'LiveFIB' service enables designers to verify that the FIB modifications are being performed at the correct location and that the specified changes are correct... was viewed as a success by all involved" stated Richard Clark of Nanotech Semiconductor.

Advantages of this new service

- greater control
- all your office resources (design tools) are available to support the process
- **cost/time savings**
- quickly visualise & solve complex unforeseen issues–on the 'live' image
- more comfort for you
- greater intimacy with the process/technique (knowledge/training)
- no need to fly or drive to our lab
- **AND - almost no documentation required**

NanoScope has pioneered successful strategies to extend FIB, SEM and TEM capabilities since we started – now we've put a FIB on your desk and got rid of the job 'overhead' – isn't that easier?

Focus on – 'FIB on the WEB' – is it secure?

Absolutely – we've checked. The process we use is a direct video call between you and us. The shareware we recommend encrypts each communication with a unique AES256-bit encryption key, meaning each communication will use a different key each time you communicate, making eavesdropping communications almost impossible.

Look for yourself at - <http://www.skype.com/security/>

Too far to travel to NanoScope?

Are you still **paying more** per service hour, so you can travel to your local lab just to 'be there'? We understand, sometimes it's nice to get out of the office for a day, but consider this...

If you've got a web connection, you could now do this easier from your own home.

Ship your samples to us in the afternoon (we can send a courier if your in-house shipping system is too annoying), supervise the work the next morning **on-line** – and have them delivered to your desk, when you get there the next day.

Need a good reason to work from home? Well the company firewall sometimes slows video down a little ☺ Isn't that a better choice?

So how do I use this new service?

It really couldn't be easier...

- send your devices to NanoScope by courier, mail or taxi – **overnight delivery in the EU**
- on schedule – log onto your (shareware) video conferencing (setup takes – 5 mins)
- when your job is loaded – we'll start the call
- you direct us to the features we need – getting the co-ordinates from your design.
- we start the fix – you can watch – or not – any problems – we work through them together.
- devices or results are shipped back to you the same day (depending on duration)
- no travel - no costs - no delays
- minimal documentation, maximum speed
- 'It's smarter, faster and greener' and delivers a new level of service to our customers.

Focus on – Still paying extra for your copper device edit?

NanoScope doesn't charge an increment for working with copper devices. But we've learned of **surcharges of up to 120% being added** to normal pricing by some 'less experienced' service providers.

With our unrivalled understanding of the ion beam processes involved, we can work with copper and aluminium devices without adding a premium price tag.

Focus on - Device handling safety?

Some FIB providers – are still using instruments (normally older FEI FIB200 tools) contaminated with etchant chemistries **known since 1999 to 'spontaneously corrode'** copper devices – with or without the ion beam active.

From the -3rd European FIB Users Group Meeting (EFUG99)

- Mini poster- 'Corrosion of Cu Metallization in the FIB due an I2 Background' - H. Bender, S. Jin, IMEC, Leuven, Belgium

And in the same year

- 'Device Modification and Gas Assisted Etching on Cu-samples' - S. Pauthner, Infineon technologies, Munich, Germany

has the phrase "In the case of iodine the removal characteristics of the metal etch process is disastrous". See –

<http://www.imec.be/efug/EFUG20c.html#aabstract10>

We only use proven safe (non-resident) pre-cursor etchants (our engineers helped develop them, so we know)

Make NanoScope the safe and cost effective choice for your valuable project.

New CD-NanoCalendar 2010

Missed out on your 2010 calendar?

Each month shows a high-end technique used for solving complex problems on real devices. We have a few left, so if you just have room for a CD case on your desk – just drop us an email and we will be happy to send you one.

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Calendar 2010