



Thematic Network on Silicon on Insulator Technology, Devices and Circuits.
[IST-1-506653-CA]

EUROSIOI “Who is Who” Guide

Name of the organisation

<i>Organization Legal name:</i>	University of Liverpool
<i>Organization short name:</i>	LIVUNI
<i>Internet homepage:</i>	http://www.liv.ac.uk/eee/research/sse/sse.htm

Contact person

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Other Senior Researchers:

Dr Octavian Buiu, o.buiu@liv.ac.uk

Experience and expertise fields:

Electrical, materials and optical characterisation including: scanning ellipsometry, AES, FTIR, TEM, SEM, charge pumping, photo I-V, I-V, C-V, SHE, CHE
Device physics, design and trouble-shooting
Small circuits design: analogue and digital

Facilities and Equipment:

Measurements Laboratory equipped for above purposes
Small clean room for preparing capacitors etc: wet benches, lithography, metal dep etc
Low temp. plasma anodisation (oxidation) – uses rf plasma – oxide growth not dep
Cadence

Spectro-ellipsometer

Range: near IR (up to 1700 nm) and UV region (185-240 nm)
Very fast acquisition time: 700 wavelengths in less than 1 second!
Variable Angle (VASE) system. WVASE32™ software used.
100um ‘micro’ spot size

Internal Photo-emission system

UV 250nm/5eV (IR 900nm/1.4eV)

AFM with nanolithography capability



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Three last international research projects:

SIGMOS in Framework 5

SINANO in Framework 6

UK NorthWest hi-k consortium

Collaboration between Liverpool and Manchester Universities and IMEC