

Nanofabrication Using Electron & Ion Beams:
from instrumentation basics to advanced applications
by *Dr Joseph Klingfus*, Raith America

Monday, August 10th, @ 10AM CDT

The terms *nanofabrication* is used to describe manufacturing one-, two-, or three-dimensional structures with a high degree of functionality and structural complexity for fundamental research, electronics, photonics, sensors, energy, *etc.*

This webinar from Raith America, co-hosted by *IEEE Chicago & IEEE Region 4 - Industry Engagement Committee*, will unveil how focused beams of electrons and ions can be used for device nanofabrication and prototyping down to scales at the single-digit-nanometer regime. The basic principles involved to the considerations necessary to achieve cutting-edge results which push next generation products, or even to study basic science principles and systems down to the quantum level will be discussed.

Free Registration is Open Now!

Speaker's Biography: Dr. Joseph Klingfus has been with Raith USA since 2000. Joe received BA degrees in Mathematics and Physics, and Ph.D. in Physical Chemistry. Prior to Raith, Joe worked as an analytical spectroscopist, and since joining Raith, Joe has been applications scientist, customer support specialist, and currently Regional Sales Manager. He has co-authored numerous papers and conducted workshops and training sessions in the areas of electron beam lithography and ion beam nanofabrication from Canada to Brazil. Joe is a member of the international Society for Optics and Photonics and the American Physical Society. Contact email: Joseph.Klingfus@raithamerica.com

Raith, <http://www.raith.com>, offers innovative instrument solutions for electron beam lithography, ion beam lithography, nano manipulation, electron beam induced deposition and etching. Learn more about Raith stand alone instruments, the sophisticated pattern generator soft- and hardware, extending your scanning electron microscope or focused ion beam with unmatched patterning and automation.

Contact email: sales@raithamerica.com

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