

Location

IMEC auditorium,
 Kapeldreef 75
 3001 Leuven - Heverlee

Tuesday June 15th 2010
 (16h30-20h10)

Registration fee

105 euro (VAT excl.)
 members Leuven.Inc

155 euro (VAT excl.)
 other participants


Registration

Subscription by e-mail to
admin@leuveninc.com or fax
 the registration form to
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**Registration and payment
 before Wednesday June 9,
 2010**

After registration you will
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Visionary Seminar: "TeraHz: from visible to invisible."

TeraHz radiation is being considered for energy harvesting applications, possibly contributing to one of our major problems: energy supply. And since it is non-ionising, it does not form a direct threat to DNA. This, and the fact that it penetrates several mm of any low water content material, makes it very suited for important societal applications. But can TeraHz make things invisible? It may become a real possibility in the 21st century, through metamaterials.

Metamaterials are non-natural materials which allow the reconstruction of electromagnetic waves on demand, with enormous possibilities: invisibility by means of a cloak, super lenses beating the diffraction limit, etc.. Most research has been performed at microwave frequencies, but the principle of metamaterials may be most promising at much higher frequencies, with the small scale of the meta-patterns opening up many practical applications.

This seminar considers the combination of two hot topics in today's scientific world: TeraHz frequencies and metamaterials. Together they form a powerful scientific and technological cocktail.

Programme

16h30	Welcome coffee
17h00	Opening remarks and introduction Robert Mertens, Senior Vice President SLT, imec
17h15	Positioning of the programme and conceptual metamaterials Guy Vandenbosch, Dep. Electronics and Informatics (ESAT-TELEMIC), K.U.Leuven
17h45	Concept of THz technologies Christian Jansen, Technical University of Braunschweig, Institute of High Frequency Technology, Germany
18h15	Coffee Break
18h45	Application of metamaterials Guy Vandenbosch, Dep. Electronics and Informatics (ESAT-TELEMIC), K.U.Leuven Johan Stiens, Dep. Electronics and Informatics (ETRO), V.U.B.
19h15	Terahertz Reflectometry and Imaging of IC Packaging and Semiconductors DD Arnone, CEO and Co-Founder, TeraView Cambridge
19h45	Q & A
20h00	Closing remarks Robert Mertens, Senior Vice President SLT, imec
20h10	Drink and snacks

Yes, I would like to register for the Visionary Seminar "**TeraHz: from visible to invisible**" on **Tuesday June 15th 2010** and I will pay:

105 euro (VAT excl.): members Leuven.Inc **155 euro** (VAT excl.): all other participants

Cancellation after subscription is not possible, but replacement by a colleague is allowed.*

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