

Location

IMEC Auditorium
 Kapeldreef 75
 3001 Leuven

Thursday January 17, 2008
 (17h00-21h00)

Registration fee

95 euro (VAT excl.):
 members Leuven.Inc

135 euro (VAT excl.):
 other participants

Registration

Subscription by e-mail to
admin@leuveninc.com or fax
 the registration form to
 +32(0)16 40 81 47

**Registration and payment
 before Thursday January 10,
 2008**

After registration you will
 receive a confirmation and route
 description. Fee is payable after
 reception of invoice.

**For more information:
 Leuven.Inc –
 +32(0)16 40 11 90**

**Visionary seminar:
 Synthetic Biology, Designing and Building Living Systems**

Synthetic Biology is a rapidly emerging technology resulting from a symbiosis of biology, synthetic chemistry and engineering. It originated about seven years ago at several top US universities where biologists, computer scientists and electrical engineers joined forces to create an engineering approach to biology. Its first goal is the systematic design and manufacturing of biological systems of predictable functional behaviour that do not exist as such in nature. Its second goal is the redesign of existing biosystems to get a better understanding of the underlying mechanisms.

Synthetic Biology holds great promise for many emerging technologies of the 21st century such as nanomedicine, systematic synthesis of biopharmaceuticals, sustainable chemical industry, production of hydrogen and biofuels, smart biosensors for medicine and environment, waste removal etc. The four speakers in this seminar represent the cross-disciplinary aspect. Prof. Piet Herdewijn and Prof. Guido Volckaert will consider the field from the biological side while Prof. Em. Hugo De Man will highlight the engineering aspects and Prof. Markus Schmidt will talk about the safety and ethics of synthetic life.

Program

- 17h00 Registration participants
- 17h45 **Welcome and introduction to synthetic biology**
 Piet Herdewijn (Prof. K.U.Leuven Dep. Pharmaceutical Sciences)
- 18h15 **Case study: Nature's tools**
 Guido Volckaert (Prof. K.U.Leuven Dep. Biosystems)
- 18h45 Sandwich break
- 19h15 **Where biology meets engineering**
 Hugo De Man (Prof. Em. K.U.Leuven - Senior Fellow IMEC)
- 19h45 **Safety, security and ethical aspects of synthetic biology**
 Dr. Markus Schmidt (Organisation for International Dialogue and Conflict Management, Biosafety Working Group, Vienna, Austria).
- 20h15 Questions & answers
- 20h45 Closing reception

Yes, I would like to register for the visionary seminar **“Synthetic Biology, Designing and Building Living Systems”** on Thursday January 17, 2008.

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

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