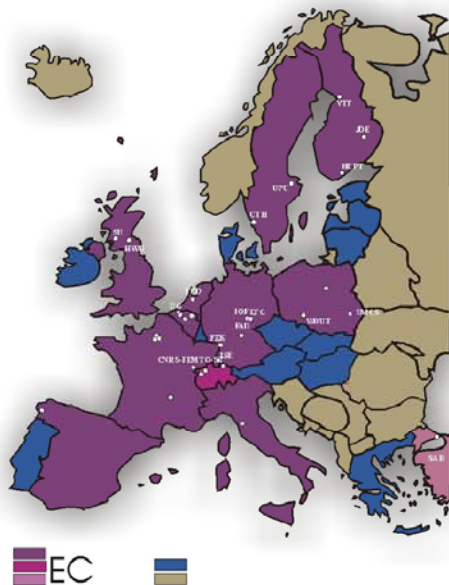


The European Dimension of the NEMO Network



NEMO's Co-ordination Team

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The NEMO partners

VUB	Vrije Universiteit Brussel
FZK	Forschungszentrum Karlsruhe
WUT	Politechnika Warszawska
FAU	Friedrich-Alexander-University Erlangen-Nürnberg
VTT	Technical Research Centre of Finland
SCKCEN	Belgian Nuclear Research Centre
NIT	National Institute of Telecommunications
UG	Universiteit Gent
CNR	Istituto di Fisica Applicata "Nello Carrara"
HWU	Heriot-Watt University
KOC	Koç Üniversitesi
CNRS	Centre National de la Recherche Scientifique
UPU	Uppsala Universitet
UW	Warsaw University
USC	Universidade de Santiago de Compostela
TRT	Thales Research & Technology
CTH	Chalmers Tekniska Högskola AB
JOE	University of Joensuu
HEPT	Heptagon Oy
IOF	Fraunhofer Institute for Applied Optics and precision Engineering
ISE	Fraunhofer Institute for Solar Energy Systems
LTG	Light Trans GmbH
IMT	Université de Neuchâtel
CSEM	Centre Suisse d'Electronique et de Microtechnique
SMO	SUUS MicroOptics SA
WRUT	Wroclaw University of Technology
UMCS	Maria Curie Skłodowska University
TUD	Technische Universiteit Delft
SU	University of Strathclyde
SAB	Sabancı University



Network of Excellence on Micro-Optics

What is Micro-Optics ?

Micro-optics is a generic technology that allows the manipulation of light and the management of photons with "micron"- and "sub-micron"-scale structures and components. Micro-optics is therefore the corner-stone enabling technology to interface the macroscopic world we live in with the microscopic world of opto- and nano-electronic data processing circuits. It is recognized as the key-link between photonics and nano-electronics, the two dominant information technologies in tomorrow's society.

What is NEMO ?

In its 2nd call under Framework 6 the EC supported the Network of Excellence on Micro-Optics "NEMO" initiative with 6.4 Million €.

NEMO is running since 1 September 2004 and aims at providing Europe with a complete Micro-Optics food-chain by setting up durable service and technology centres and long-term research centres.

NEMO will be the networking platform of 30 European partners for the next 4 years and beyond. Each of the 30 institutes involved in NEMO is a key-role player in micro-optics.

NEMO's main objective is to structure and integrate the expertise and core-competences of its partners while strengthening their R&D activities in the emerging field of micro-optics.

WWW.MICRO-OPTICS.ORG

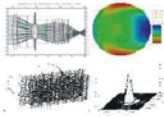
NEMO provides Europe with a technology food-chain for Micro-Optics

NEMO will set up 6 durable service and technology centres and make them accessible to academic research institutes, SMEs, and large companies. This way NEMO targets to embed a variety of novel micro-optical functionalities in a myriad of products and to enhance the competitiveness of European companies.



Centre for Modelling and Design

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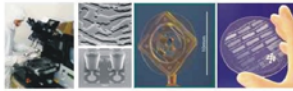
Centre for Measurement and Instrumentation

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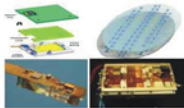
Centre for Prototyping, Mastering and Replication

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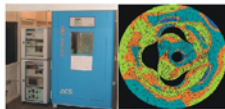
Centre for Packaging and Integration

Pentti Karioja
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Centre for Reliability

Francis Berghmans
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Centre for Standardisation

Tomasz Kossek
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NEMO works with Industry through its Industrial User Club

NEMO aims at

- Facilitating and stimulating access for industry to its network facilities
- Continuously triggering and fostering R&D oriented projects with industry and research institutes
- Providing access to the Network Competences via its databases
- Promoting capabilities of its service centres
- Providing training activities for scientists and engineers
- Creating awareness and using its potential for advertising your business
- Orienting scientific progress towards your industrial needs

Take your Advantage - get in touch with NEMO !



Industrial User Club (IUC)

Holger Moritz
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NEMO provides in-dept information on micro-optics

Through its Knowledge Management Centre NEMO gives you access to databases on

- fabrication technologies
- materials
- modelling tools
- characterisation
- reliability
- standards
- instrumentation
- available expertise
- patent portfolio's
- roadmaps on micro-optics
- market surveys
- job opportunities
- potential for e-consulting

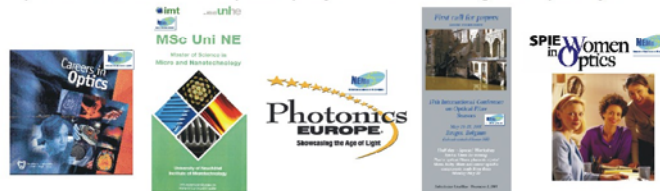


Knowledge Management Centre (KMC)

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NEMO's creates awareness on Micro-optics

NEMO supports initiatives that create general awareness of the important role micro-optics plays in enhancing the quality of life



Education Training Conferences Topical Meetings Gender issues

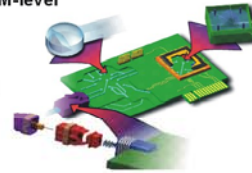
NEMO tackles Long-Term Research Topics in Micro-optics

NEMO will use the service and technology centres to support the network's six long-term application-oriented research topics on micro-optics. These long-term research topics aim at widening the scope of present-day European research and at introducing novel concepts and components, thus creating new photonic functionalities applicable in virtually any region of the optical spectrum and beyond. With its long-term research NEMO is targeting a wealth of novel optical and photonic applications to increase the quality of daily life and to give European industry a leading edge.



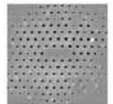
Micro-Optics for PCB- and MCM-level Interconnects

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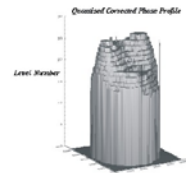
Micro-optic Structures for Sensing Applications

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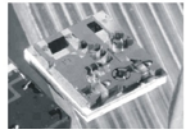
Non-Conventional Micro-optical Elements

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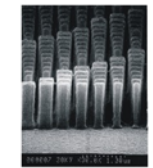
Platforms for Optical MEMS

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Sub-Wavelength Structured Optical Surfaces

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Infra-Red Micro-Optics

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