

Guten Tag,

sollten im Zuge der Verarbeitung dieser Präsentation irgendwelchen Fragen oder Probleme auftauchen, wenden Sie sich ggf. gerne und jederzeit an mich:

THOMAS JÖRN

Universität des Saarlandes
Institut für Werkstoffwissenschaften
– Öffentlichkeitsarbeit –

Gebäude C 6.3, Raum 7.03
Postfach 151150
66041 Saarbrücken

t.joern@mx.uni-saarland.de

tel +49 681 302-3408

fax +49 681 302-4876

mobile +49 174 2025562

Discover

Potentials

Europe

AMASE



**amase
master**

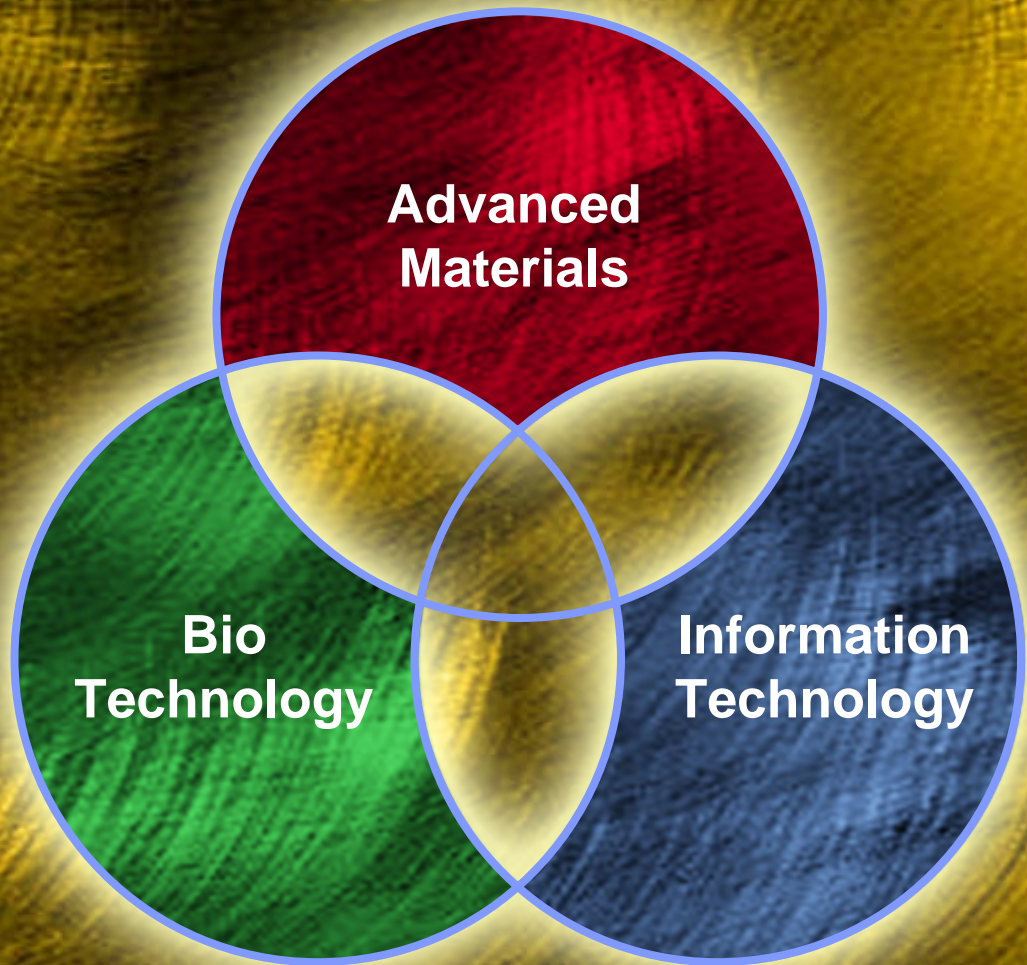
A Joint European Master
Programme in Advanced Materials
Science and Engineering

Materials Science And Engineering (MSE)

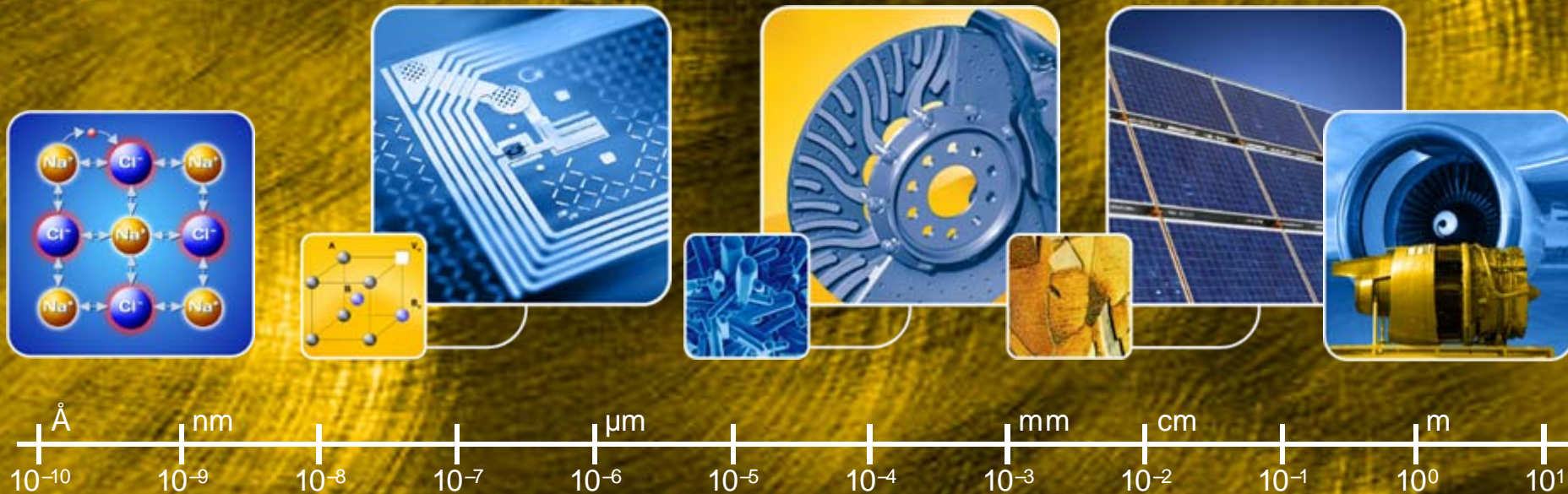
Key technologies for the 21st century:

- Advanced Materials
- Bio Technology
- Information Technology

Materials Science affects most of the future and global challenges!



MSE – Crossing The Scale



Advanced Materials:

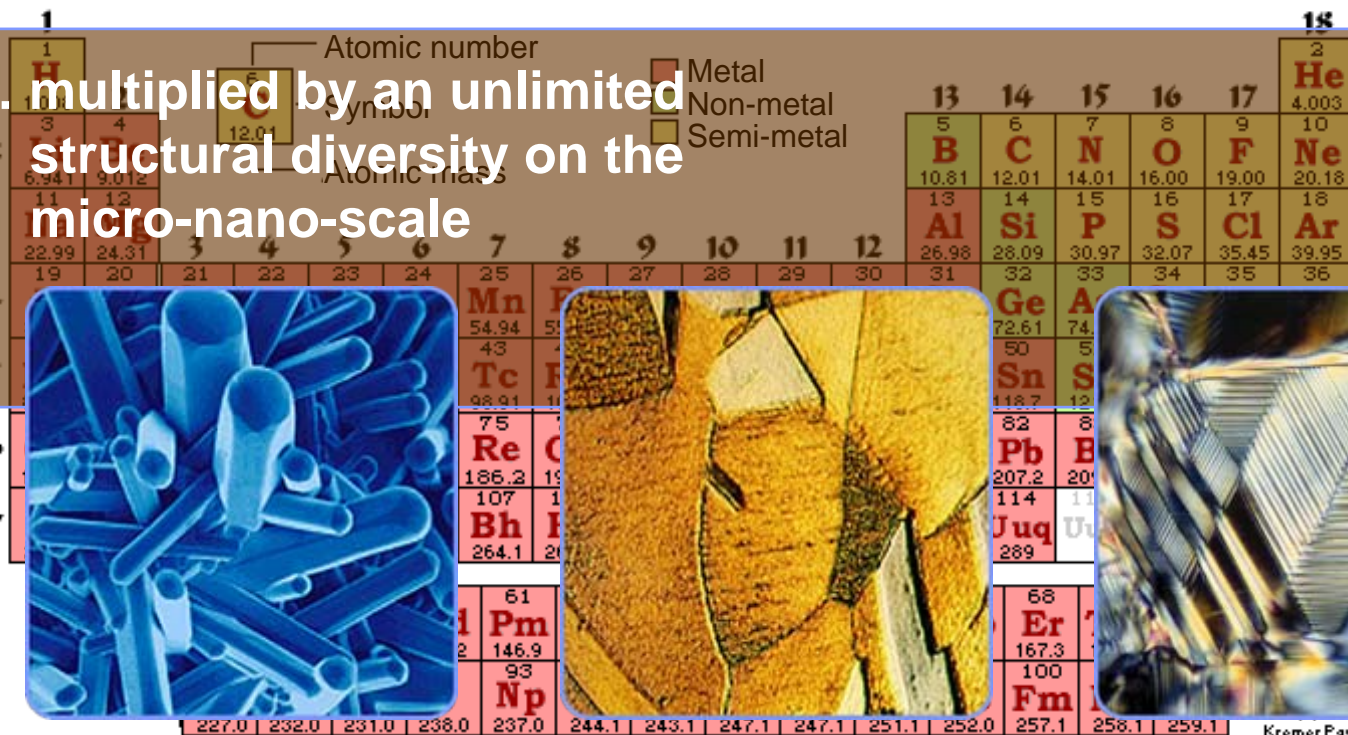
- Building bridges between natural sciences and engineering technologies
- Operational range from nanotechnologies to system engineering

And This Is Just The Beginning ...

Chemical diversity ...

- 2 elements 5,000 systems 80% known
- 3 elements 162,000 systems approx. 5% known
- 4 elements 4,000,000 systems < 1% known

... multiplied by an unlimited structural diversity on the micro-nano-scale



MSE – A Range Of Research & Development

Extreme Properties – Advanced Materials



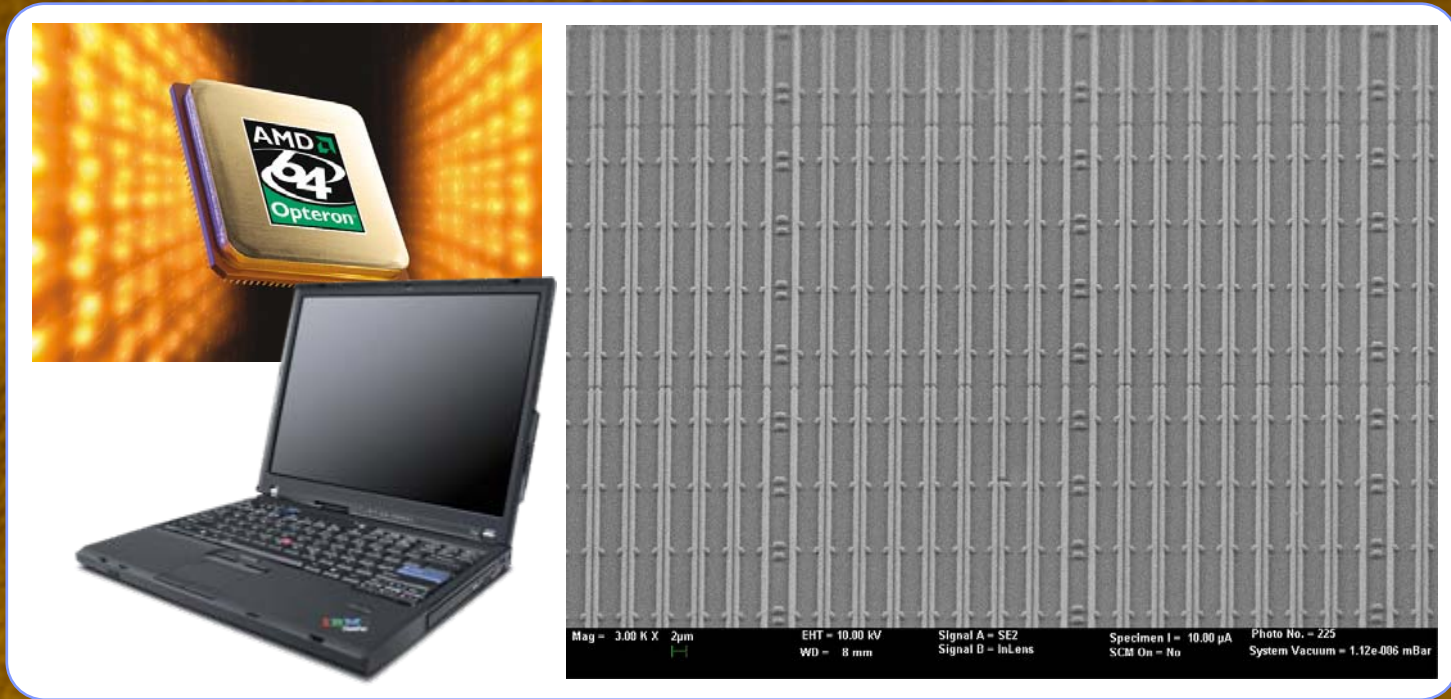
MSE – A Range Of Research & Development

Extreme Properties – Advanced Materials



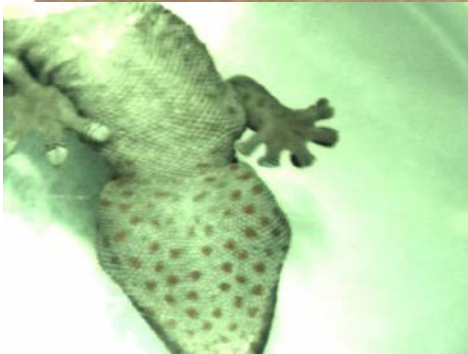
MSE – A Range Of Research & Development

Extreme Properties – Advanced Materials



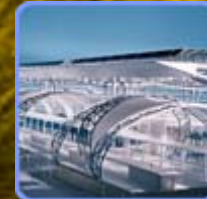
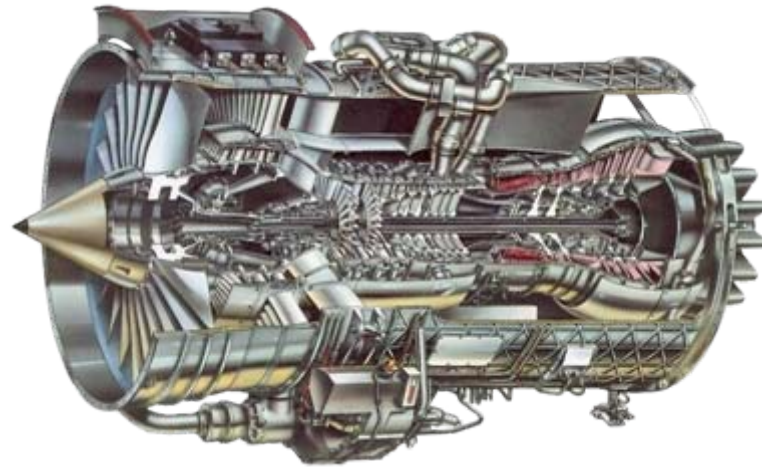
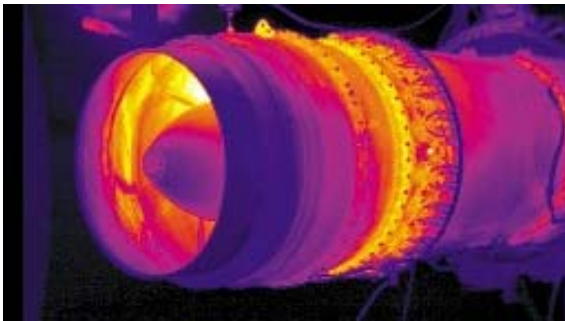
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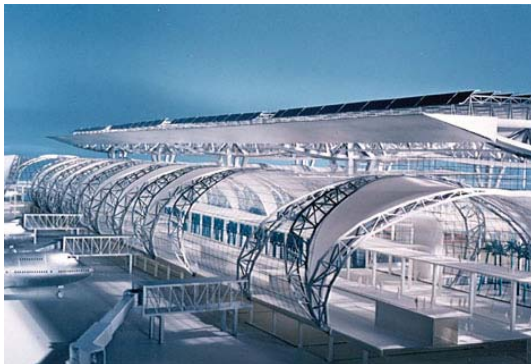
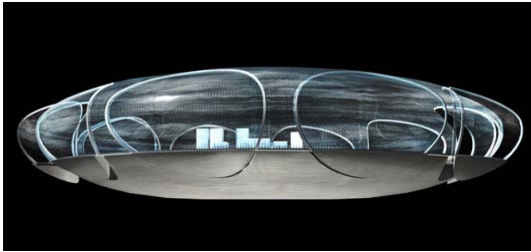
MSE – A Range Of Research & Development

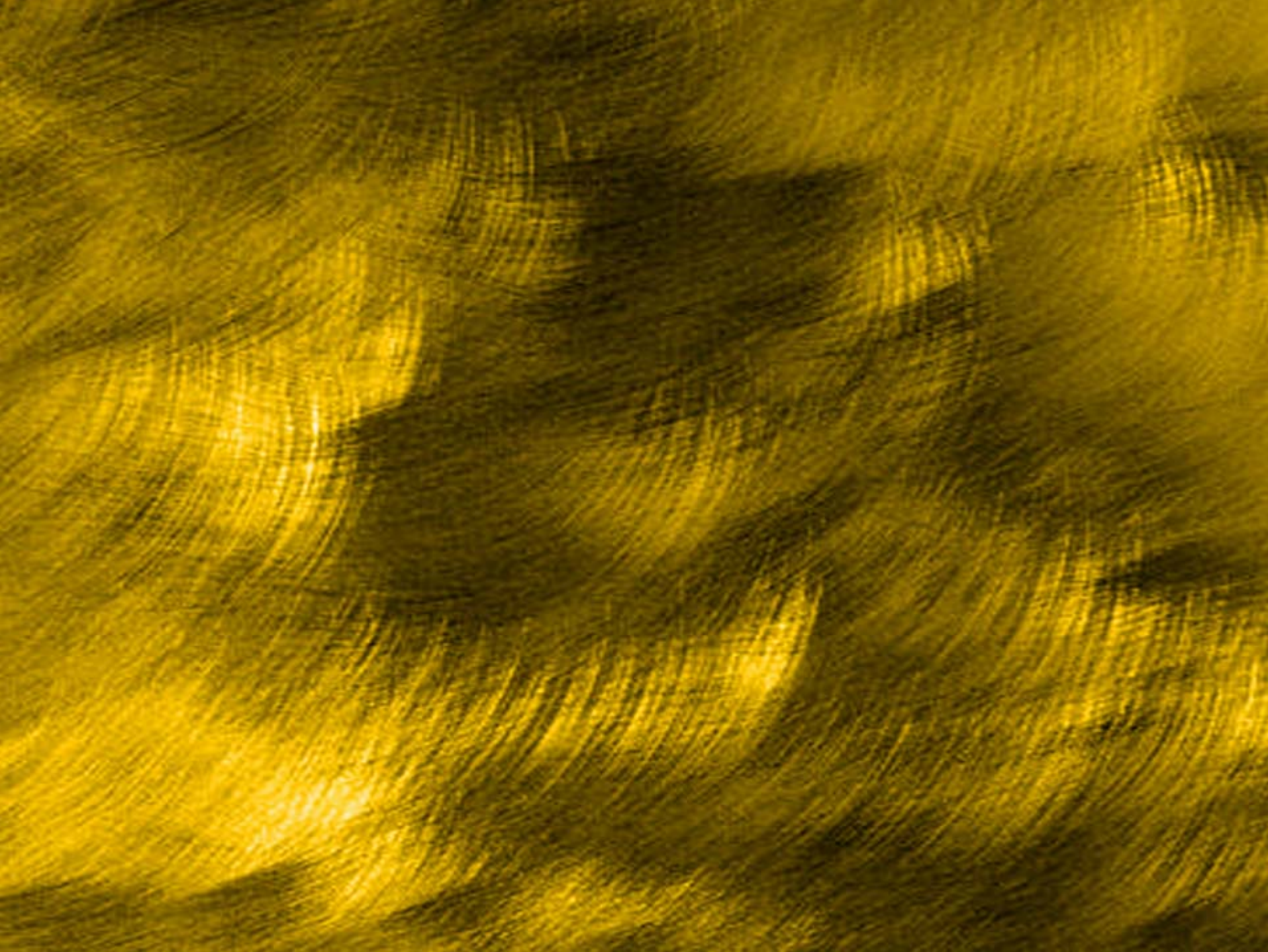
Extreme Properties – Advanced Materials



MSE – A Range Of Research & Development

Extreme Properties – Advanced Materials





Europe – A Continent Of Diversity

- Linguistic:
20 official languages within the EU
- Cultural:
broad influence beyond the continent
- Scientific:
very long tradition from antiquity to present



The Erasmus Mundus Programme



Education and Culture

- Enhancement of quality in European higher education
- Promotion of intercultural understanding through co-operation with third countries
- Intentions: Strengthening of European co-operation and international links in higher education by:
 - supporting high-quality European masters courses
 - enabling students and visiting scholars from around the world to engage in postgraduate study at European universities
 - encouraging the outgoing mobility of European students and scholars towards third countries

Erasmus Mundus Master

The Consortium – Saarbrücken, Germany



UNIVERSITÄT
DES
SAARLANDES

- Material science department in Saarland University is one of the leading centers in Germany
- Well-balanced portfolio of research and study activities
- Important role of research at Saarland University
- Rewarded by a number of scientific prizes
- International scientists are well integrated staff members



The Consortium – Nancy, France

- The INPL is a scientific and poly-technological university
- 7 high-level engineering schools including the European School of Materials Science and Engineering (EEIGM): a multi-national programme
- 26 research laboratories
- Top level specialization in surface treatment, nanotechnologies, functional glasses, process engineering, fuel cell and much more



The Consortium – Barcelona, Spain

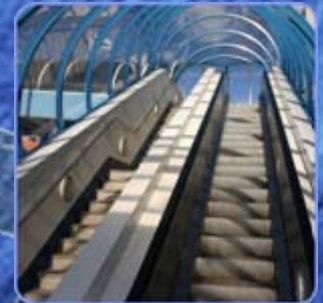


- First university in Spain to give Engineering and Master Degree in Materials Science and Engineering (MSE)
- High quality Ph.D. programme specialised in structural materials, biomaterials, polymer and metallurgical engineering
- Department of Materials of UPC is one of the leaders in Spain in research and collaboration with industry
- High cultural activity, winter and summer sports, and many advantages related to a Mediterranean large city





- LTU provides 13 departments of education and research
- Material science is a prioritized research area within the university
- 120 researchers in Materials Science and Engineering
- Large research activities in microparticles, high strength steels, natural composites and tribology
- Collaboration with industries during studies



- **Duration:** Two years (120 ECTS)
- **Basic courses in the fields of:**
 - Structure of Materials
 - Characterization and Modelling of Materials
 - Properties of Materials
 - Technologies of Materials
- **Specialization courses**

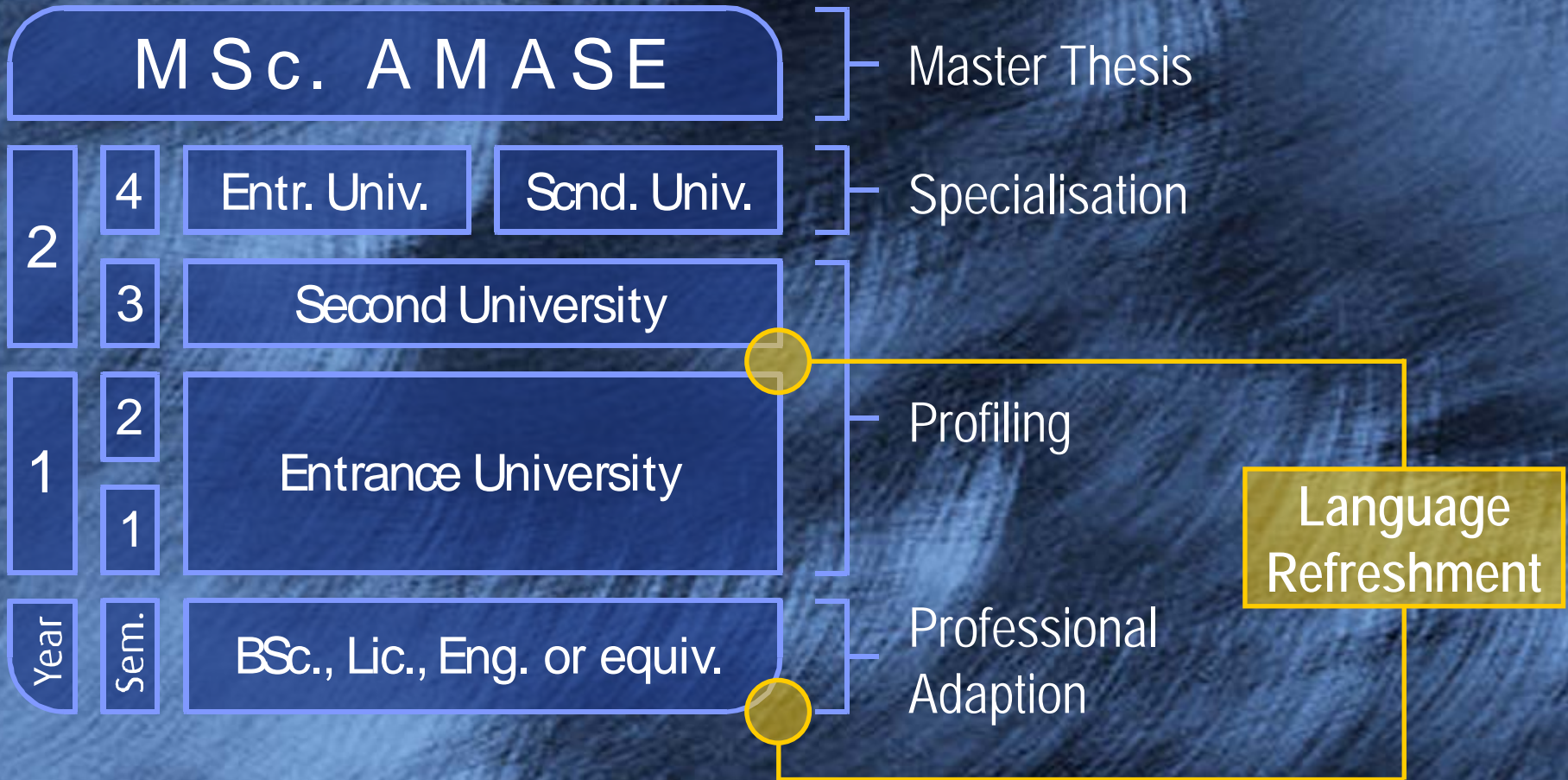
AMASE – Study Programme II

- **Research projects:** in cooperation with research centres and industries
- **Master thesis:** research oriented as part of interdisciplinary and international research teams
- **Language tests and well-tailored language courses:** German, French, Spanish and English

Which University? Which Language?

- Students can choose the universities according to their knowledge of European languages:
 - German in Saarbrücken
 - French in Nancy
 - Spanish in Barcelona
 - English in Luleå
- **12 possible language combinations**

Students' Mobility



Third-county



LETTER OF APPOINTMENT

to

Prof. Dr. K. Lu

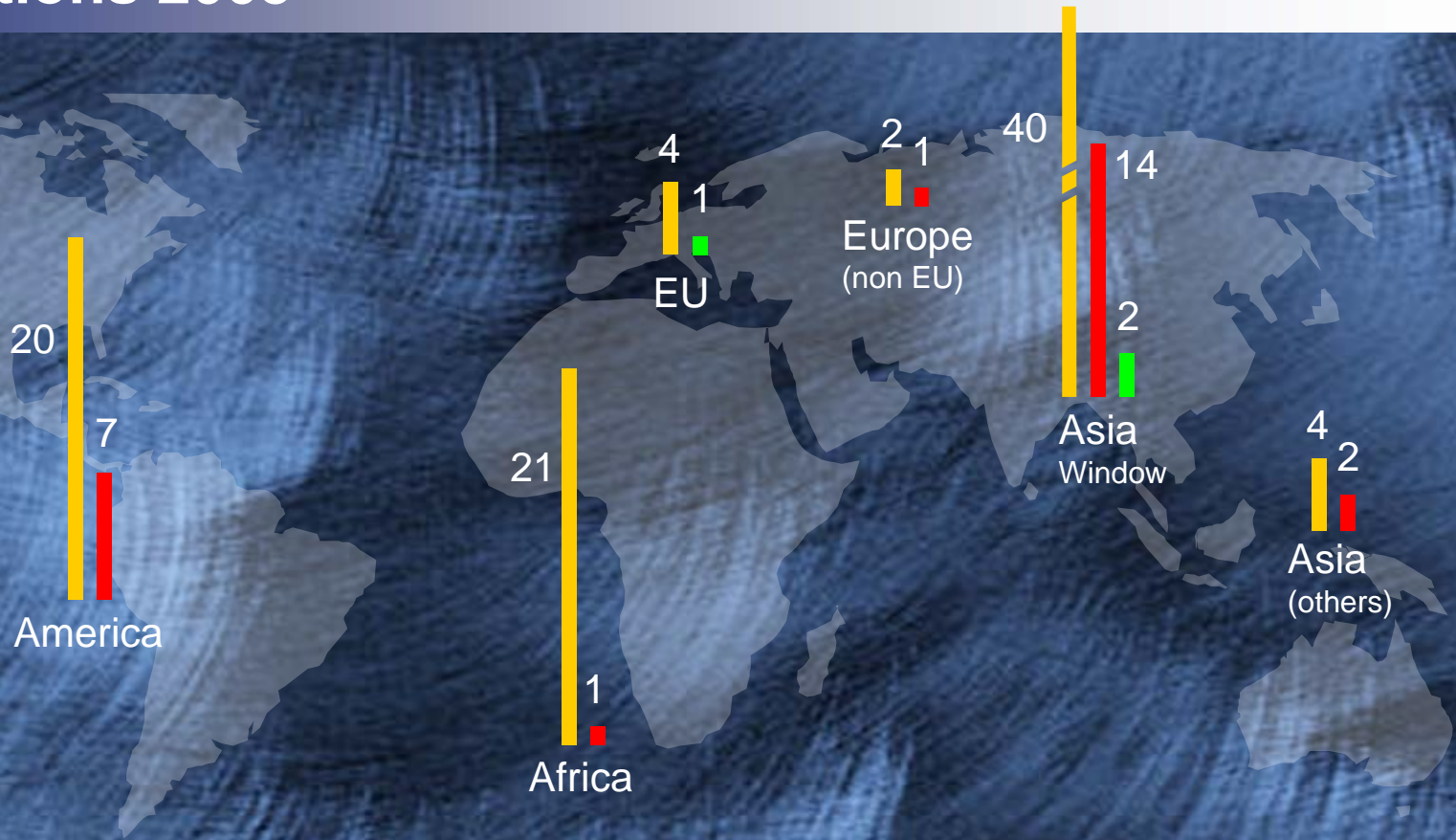
Shenyang Nat. Lab. for Materials Science,
Institute of Metal Research,
Chinese Academy of Science,
Lab. of Corrosion and Protection



- Argentina
- Colombia
- Venezuela
- Mexico

- United Kingdom
- Tunisia
- USA

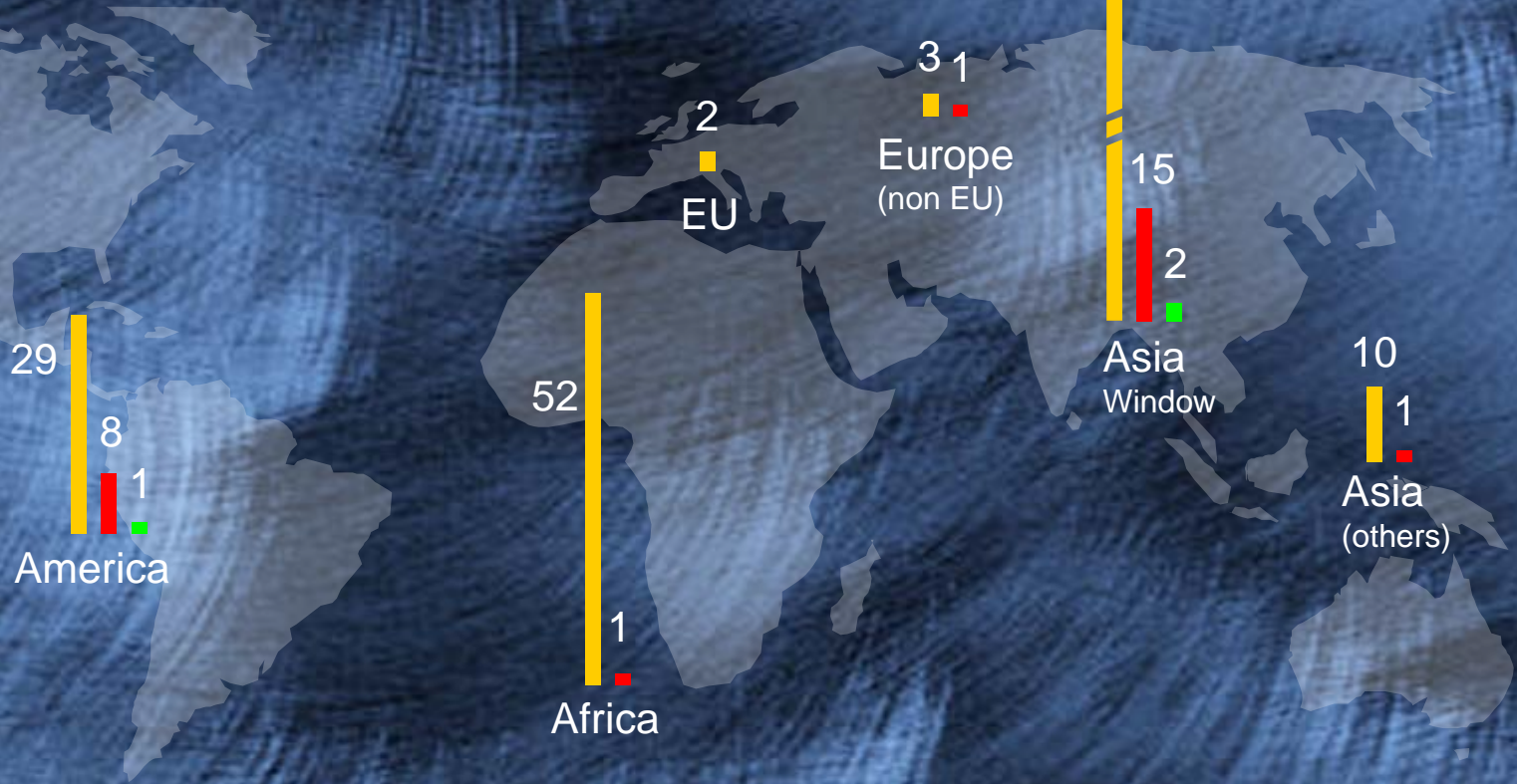
Applications 2005



Total applications: **89** (without promotion!)

- Applications
- Students with Erasmus Mundus Scholarships
- Students without Erasmus Mundus Scholarships

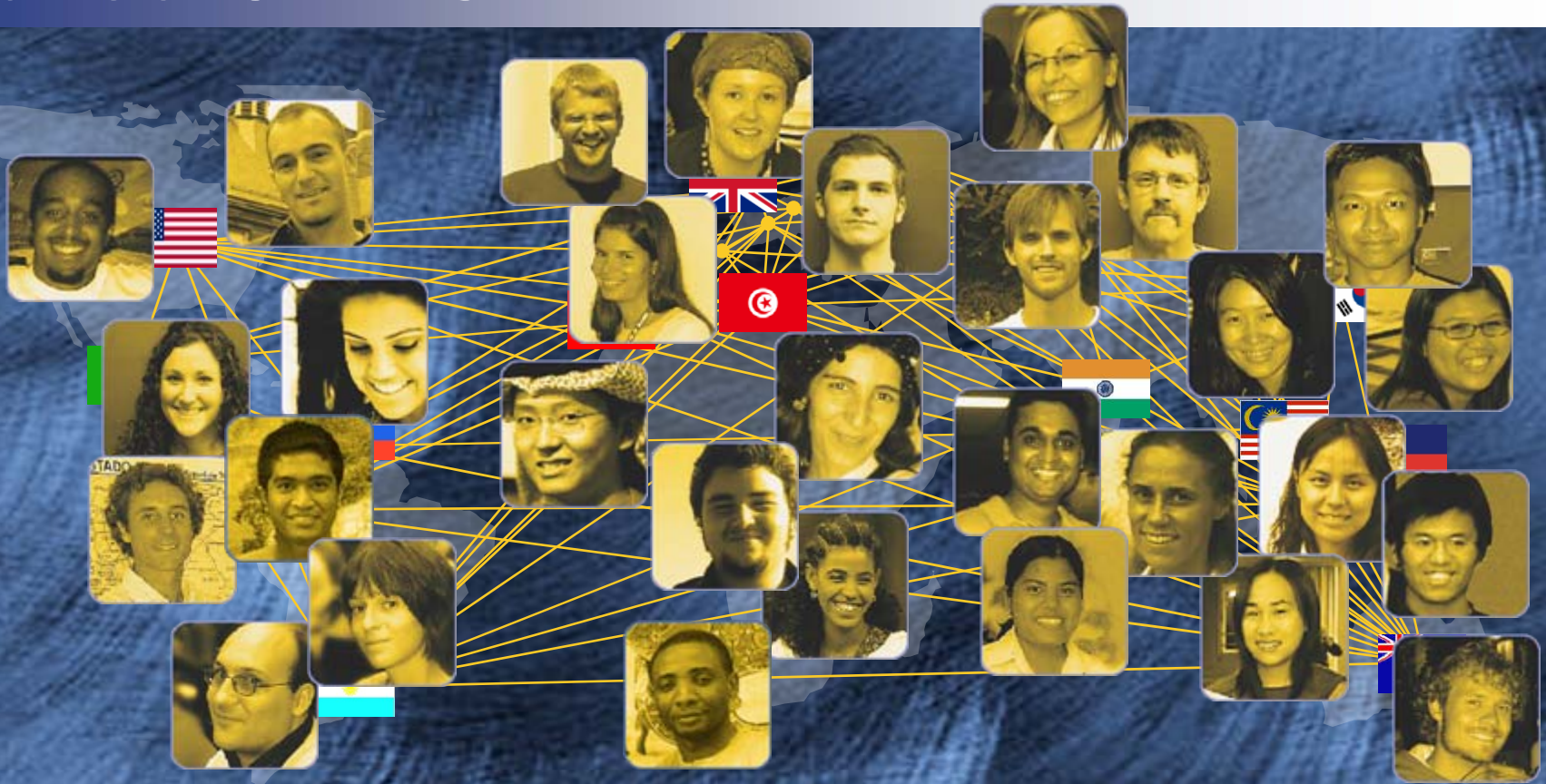
Applications 2006



Total applications: **201**

- Applications
- Students with Erasmus Mundus Scholarships
- Students without Erasmus Mundus Scholarships

The Vision Of AMASE



- Worldwide network
- Alumni idea
- International Materials Club – www.materialsclub.com
powered by FEMS (Federation of European Materials Societies)

WE

Thank you for your kind attention.
**make
materials
matter**

WWW.  **amase-**
master.NET

Bye.