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



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! Advanced Bio Bio Biosology

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 elements3 elements
- 4 elements

5,000 systems 162,000 systems 4,000,000 systems

80% known approx. 5% known < 1% known

































ag =	3.	00 1	κx	2µm						EHT = 10.00 kV WD = 8 mm							Signal A = SE2 Signal B = InLens								Specimen I = 10.00 µA SCM On = No						F	Photo No 225 System Vacuum - 1.12e-006 mBar									
		Contraction of the							11	and the second				A. Salar	A NOT	and the second se	Contraction of the		-	and a second second	1	al desired	and a second	111			No.	1		and the second			Ne. annu	and the second	A CONTRACTOR			The second	N. Com	agraded	and a state of the
		and a state	Star Assess	Start Aller	STATE AND				CEL				and Annual	1	Start Start	Total Lines	No. No.			and a second	and the second	1	States Same	I			and the second	And And	and a second	State State			and Annual	Star Sul	1	Internet		ALC: NO. OF ALC: NO.	and and	and and	and the second second
		Contract of Contract	Statute of	and the second second					ALC: NO	State and			1	and a second	THE R. L.	The second second				1			and the second	- CC			and and	No. of Lot of Lo	And Persons in which the	and the second s			and Annual					ALL ADDRESS	and a second sec	Line	1 1 1 1
		The state of the s		1	and a state of				CH I	and the second			and Manual	State States		and a state of the						and a second second	and the second	111				1		Contraction of the local distance			And a state of the	and the second	and the second			Contraction of the local division of the loc		Non-Lineau	- Aller
				Contraction of the local division of the loc	-				III				The state of the s		COLOR ADDRESS	and a state						Same Annual	State of the local division of the local div	CI I				And Among					and and	and the second	Contraction of the local division of the loc			Sol & Annual		-	The second s
		and a second		and Annual					ALC: N	STATE AND			and form	1	and Annual	1		Total Lines				And Amount	-	Contraction of the local division of the loc				and a second	Concel Science				Contraction of the local division of the loc	Contraction of the local division of the loc	State of the local division of the local div			ALC: NO. OF THE OWNER.		-	and the second
	and a second	Statement Provide Statement		Contraction of the local division of the loc	Cont. I was				CH I	COLOR AND			and a second	State Street	Contraction of Contraction							and a second		CO.				and the second	And Party of	and the			and Amount		and Annual	And a state of the		Contraction of the local division of the loc			1
The second second				Contraction of the local division of the loc	and Assess	THE REAL PROPERTY AND IN COLUMN			THE OWNER	CONTRACTOR OF STATES	and Amount			Sound Young	and the second	State Street	the second	Terretoria				and the second		CI CI CI				and a second	Star Annual	State State			Const Boundary		and Manual	Contract of the local division of the local		10.3.8000			and the second second
And Bound				Annual Annual	Contraction of the local division of the loc	STATE AND IN COLUMN			A COLUMN	Completion of the	the second se		Constant and	and the second	States Annual		Contraction of the local division of the loc	and the second se				Street Area	Sound and	STILL ST	and and			Street, And	Constanting of	STORE AND			Annual Annual	and the second se	and a second			STATES OF STREET	offering and		And a Real Property lies
B						1				1			The state of the s				関語							Í.	額				3	1						Contract of	1	and a	1		and and a state of the local division of the local division of the local division of the local division of the



































































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 cooperation 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 opean use of the proceeduate study at
 encouraging the pulsoing applieve Euopean
 encouraging the pulsoing applieve Euopean

The Consortium – Saarbrücken, Germany

DES

UNIVERSITÄT

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-technolo-gical university



- 7 high-level engineering schools including the European School of Materials Science and Engineering (EEIGM): a multinational 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



The Consortium – Luleå, Sweden

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















AMASE – Study Programme I

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-count

LETTER OF APPOINTMENT

Prof. Dr. K. Lu

to

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

> ust yo NA "rse me in A ng - AM us Pr Us Pr

add a

Argentina
Colombia
Venezuela
Mexico

1ücklic iE Science, ten, Gerrr

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)

Thank you for your kind attention. matter



Bye.