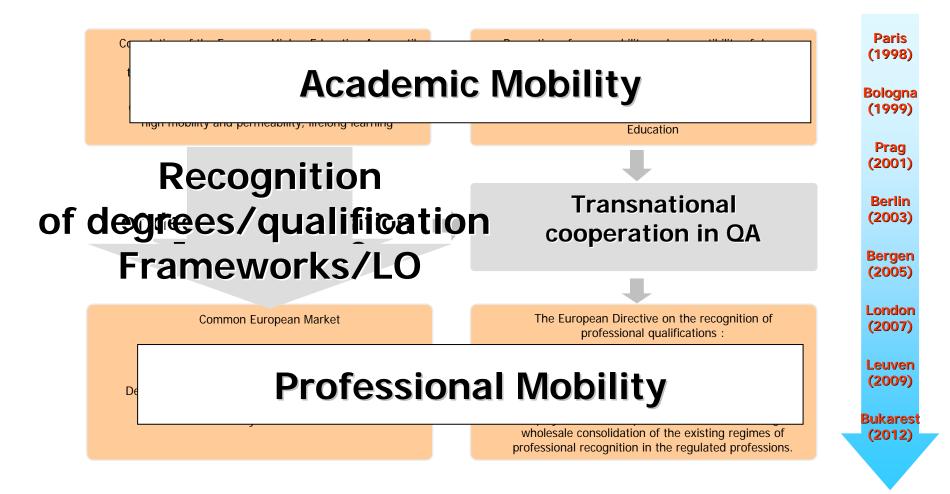
ASEM Expert Seminar on Regional Quality Assurance, Bonn Germany 5-6 July 2011

Regional Approaches to Learning Outcomes and their relevance for academic and professional mobility in Europe

Dr. Iring Wasser



Political Context of QA in Europe



European Instruments for Quality Assurance



European Quality Assurance is based on

- ✓ The European Qualification Framework (Bologna/Dublin Descriptors + Kopenhagen process are integrated), ECTS, Diploma Supplement, BA/Master degree structures
- ✓ European Standards and Guidelines, Code of Good Practice
- ✓ European Register of QA/Accreditation Agencies, M.R.A. ´s
- ✓ European Learning Outcomes/Competence Profiles on the Disciplinary Level

The growing importance of the Learning Outcome Concept



Neither in the Bologna Declaration (1999) nor in the Prague Communiqué (2001) was there a reference of LO at all. They have however figured prominently in their discourse ever since, e.g. in the London Communique 2007:

"We underline the importance of curricula reform leading to qualifications better suited both to the needs of the labor market and to further study. Efforts should concentrate in future on removing barriers to access and progression between cycles and on proper implementation of ECTS, based on Learning outcomes and student workload."

"QF are important instruments in achieving comparability and transparency within the EHEA and facilitating the movement of learners within, as well as between higher education systems. They should also help HEIs to develop modules and study programs based on <u>learning outcomes</u> and credits and improve the recognition of qualifications as well as all forms of prior learning."

The growing importance of the Learning Outcome Concept



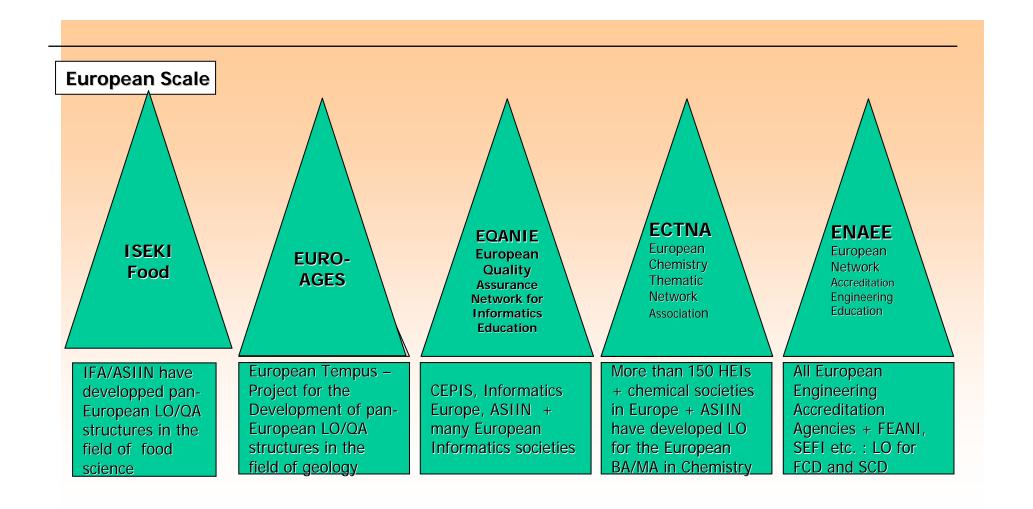
The Leuven Communique in 2009:

"We reassert the importance of the teaching mission of higher education institutions and the necessity for ongoing curricular reform geared toward the development of learning outcomes... Academics in close cooperation with student and employer representatives, will continue to develop learning outcomes and international reference points for a growing number of subject areas..."

"It is arguably that the main end product of the Bologna reforms is better qualifications based on learning outcomes and certainly not just new educational structures. For this sort of bottom-up reform it is recognised that there is a need for fundamental changes at the institutional level where academics are responsible for creating and maintaining qualifications". (Stephan Adam, UK Bologna Promoter)

European Disciplinary Accreditation Networks: Pan European Definition of Learning Outcomes as Entry Route to the Profession





Joint Declaration of the field-specific accreditation networks in 2007



Joint Statement of the European Label Associations to the European Ministers in London

The European Label Associations undersigning this statement represent accreditation bodies, higher education institutions, professional and scientific associations and other relevant stakeholders in higher education in the respective discipline.

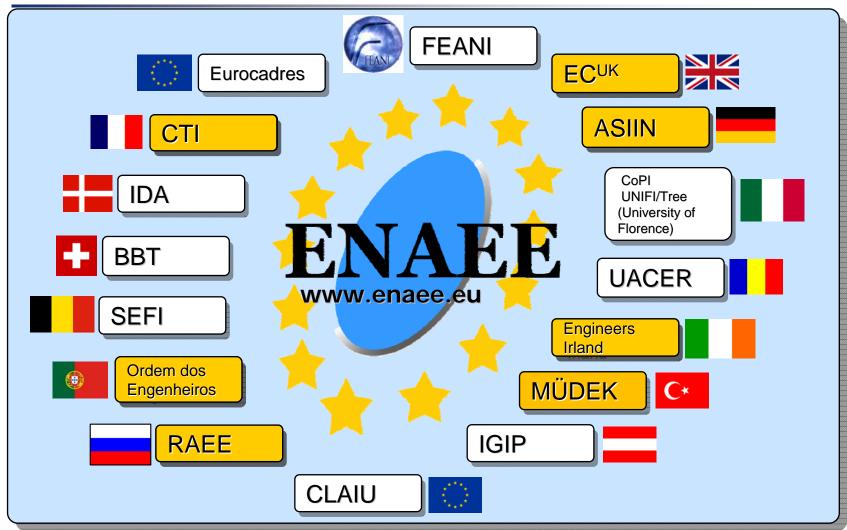
Aiming at:

- Providing an appropriate "European Label" to the graduates of accredited higher education programmes;
- Securing and improving the quality of higher education;
- Facilitating trans-national recognition of academic qualifications through a recognised label;
- Facilitating recognition of academic qualifications by the competent authorities;
- Protecting consumers against false information and low-quality university degrees and other qualifications;
- and
- Considering the "European Quality Assurance Standards" and the "Framework of Qualifications for the European Higher Education Area" adopted by the European Ministers Responsible for Higher Education,

the members represented by the European Label Associations have undertaken the development of criteria and procedural guidelines based on which the European Quality Label in the respective discipline may be awarded.

The European Network for the Accreditation of Engineering Education





Dr. Iring Wasser, Geschäftsführer ASIIN e.V.

Members of ENAEE



Engineering (Education) Societies	Engineering Accreditation Agencies	Others
FEANI	ASIIN	CoPI
SEFI	CTI	Unifi
Eurocadres	Engineering Council	BBT
Danish Society of Engineers	Engineers Ireland	ARACIS
Instituto de la Ingenieria de Espana	MÜDEK	
CLAIU	Ordem dos Engenheiros	
IGIP	RAEE	
Finish Association of Graduate Engineers		

EUR-ACE Framework Standards

Six Categories of learning outcomes In

- Knowledge and understanding
- Engineering analysis
- Engineering design
- Investigations
- Engineering practice
- Transferable skills

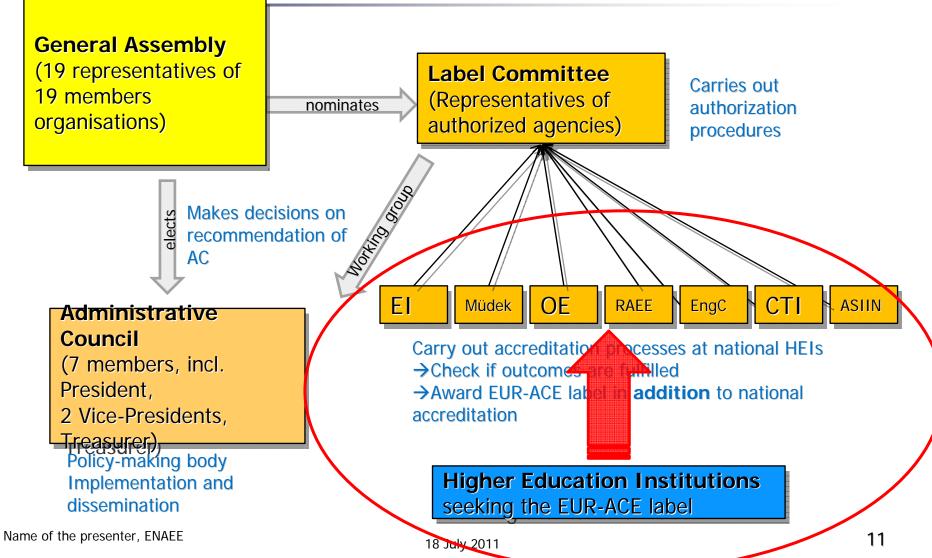
For each category, outcome criteria for First and Second Cycle programmes' graduates

have been established.

18 July 2011 10

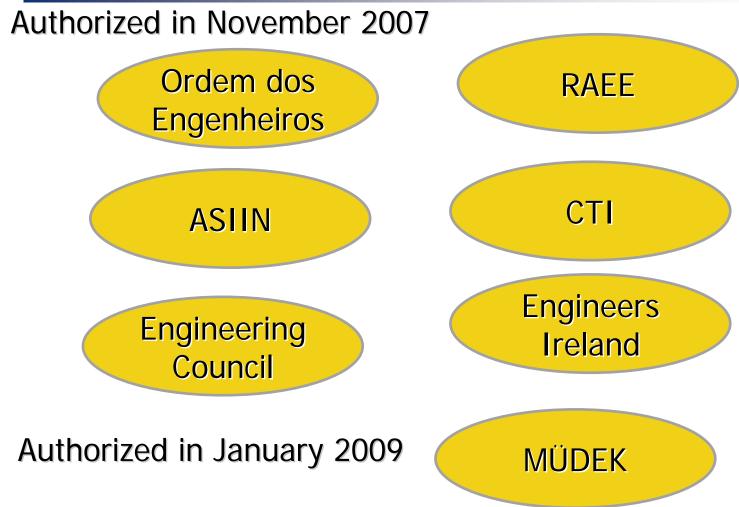
Organisational Structure of ENAEE





Authorized agencies





Expansion of the system



- Inclusion of additional agencies
- Interest from

NVAO The Netherlands

ARACIS Romania SKVC Lithuania

OAQ Switzerland

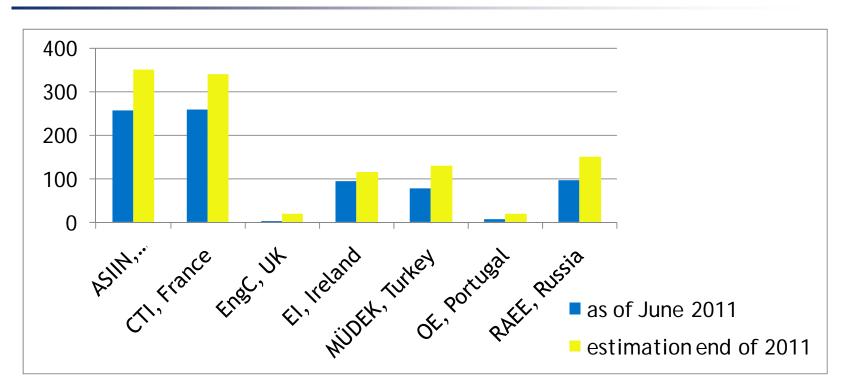
KAUT Poland

AQA Austria

- Non-engineering specific agencies
- Efforts towards mutual recognition

Number of EUR-ACE® Labels





The EUR-ACE® Certificate



This is to certify that the Bachelor programme

Energie- und Prozesstechnik (Power and Process Engineering)

provided by

Technische Universität Berlin Fakultät Prozesswissenschaften

accredited by

ASIIN e.V.

on 07 December 2007 until 20 December 2008

satisfies the outcomes of First Cycle programmes specified in the EUR-ACE Framework Standards for the Accreditation of Engineering Programmes, and therefore for the above period of accreditation is designated as a First Cycle EUROPEAN ACCREDITED ENGINEERING PROGRAMME.



For the European Network for Accreditation of Engineering Education (ENAEE) The President Prof. Ing. Giuliano Augusti, Sc.D.



For ASIIN

The Managing Director Dr. Iring Wasser

Jig Llin

Brussels, 17 December 2007

Düsseldorf, 17 December 2007

Benefits for HEIs



- Additional certificate of quality of education
- Means of promotion: programme meets academic and professional standards
- Assurance that programme meets quality standards set by the engineering profession
- Benchmarked against other European programmes
- Reliable information on quality of FC programme for admission for SC
- Incentives for students to choose EUR-ACE labelled programme

Name of the presenter, ENAEE 18 July 2011 16

Benefits for students



- Assurance that EUR-ACE ® labelled programme meets high European and international standards
- Facilitate application to EUR-ACE[®] Masters programmes in other HEIs
- Additional quality label recognized by employers in Europe
- International recognition of degree as meeting professional standards
- Regulatory bodies accept EUR-ACE® labelled programmes as meeting requirements for

becoming chartered engineer

Benefits for employers



Successful completion of EUR-ACE labelled programme assures:

•Competences of graduates:

Candidate's knowledge, understanding and practical capabilities meet international standards

- Reliable information on quality of degree programme of candidate without knowing its details
- Not only academic standard of programme checked but also relevance for profession
- •Complement to Diploma Supplement (giving academic point of view)

Benefits for accreditation agencies



- Offering additional quality label to customers (HEIs)
- Certification of quality of accreditation agency according to ESG and employers' requirements
- Integration into European network of engineering professionals
- Possibility to accredit in other European and worldwide countries with no authorized agency

Benefits for professional engineers organizations



- Guarantee that graduates meet educational requirements for entering into their registers (if organisation has set its educational standard at EUR-ACE level)
- FEANI automatically includes the EUR-ACE® accredited programmes in its Index of European recognized engineering programmes

engineerING card: Front

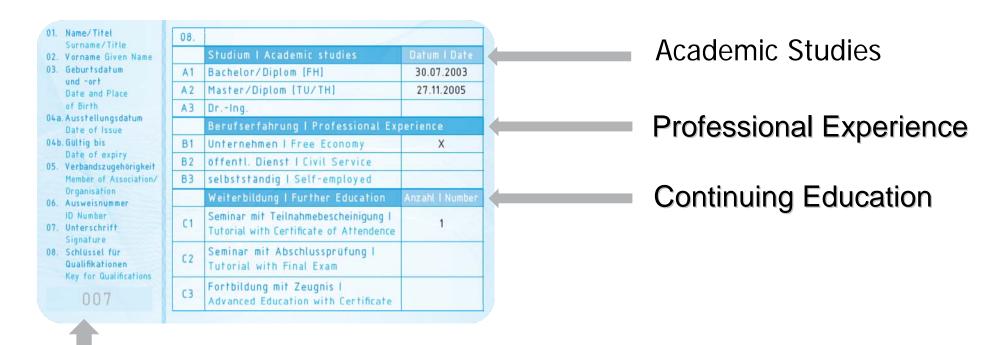


- 1 Given Name
- 2 Surname
- 3 Date and Place of Birth
- 4a Date of Issue
- 4b Date of Expiry
- Member of Association/ Organisation
- 6 ID Number
- 7 Signature
- 8 Key for qualifications



engineerING card: Back





Legend of classification of the front of the card

The Register Data Sheet Features Important Details





1. Abschluss 1st Graduation Degree			
Akademischer Titel Academic Title	Bachelor of Science (BSc)		
Datum Date	30.07.2003	 Academic Studies 	
Studiengang Course of Studies	Mechatronik		
Hochschule University	Ruhruniversität Bochum		
2. Abschluss 2nd Graduation Degree			
Akademischer Titel Academic Title	Master of Science (MSc)		
Datum Date	27.11.2005		
Studiengang Course of Studies	Mechatronik		
Hochschule University	Ruhruniversität Bochum		
Berufserfahrung Professional	Experience		
Zeitraum Period	01. Mai 2007 bis heute		
Arbeitgeber Employer	Mustermann AG, Köln		
Funktion Function	Leiter Konstruktion		
Tätigkeiten Field of work	* xxx	Professional	
	* XXX	Piolessional	
Zeitraum Period	01. Januar 2006 bis 30. April 2007	Evporiones	
Arbeitgeber Employer	Mustermann AG, Köln	Experience	
Funktion Function	Konstruktionsingenieur		
Tätigkeiten Field of work	* xxx		
	* xxx		
Weiterbildung I Further Educat	ion		
Zeitraum Period	01. Juli bis 10. Juli 2001		
Titel Title	Der Ingenieur als Führungskraft		
Art Form	Seminar	O(''	
Anbieter Offerer	VDI Wissensforum GmbH	Continuing	
Zeitraum Period	A	Education	
Titel Title			
Art Form			
Anbieter Offerer			

Outlook EUR-ACE and AHELO ASIIN e.V.

- Project: Assessment of Higher Education Learning Outcomes (AHELO)
- Funding: by OECD
- Result (200): AHELO-Tuning Conceptual Framework of Expected/Desired Learning Outcomes in Engineering merging of the EUR-ACE Programme Outcomes for First Cycle Degrees and the ABET Criteria for accrediting engineering programs (compatible with other relevant Standards)

Dr. Iring Wasser 18 July 2011 24

The Way Forward



- Founding a "Network of Networks" of field specific/disciplinary accreditation agencies in Europe
- Founding of a international group of specialized accreditors on a global scale under the umbrella of INQAAHE, a process which started at the beginning of April 2011
- Renewing the joint Bologna declaration of those field specific networks as input to the upcoming Bologna conference of the 47 ministers of education in Bukarest in 2012
- ➤ INQAAHE/ENQA Conference on field specific accreditation on the 1st and 2. of December in Brussels (Majorie Penn Memorial Conference)
- Working toward Mutual Recognition Agreements based truly on Learning Outcomes

Contact



Dr. Iring Wasser

CEO of ASIIN

President of CEEN

Vice-President of ENAEE

Vice-President of EQANIE

Chairman of the EUR-ACE Label Committee

INQAAHE Board Director

Mail: gf@asiin.de

Web: www.asiin.de

phone: +49 (0)211 / 900 977 -10

The End









Thank you for your attention and participation in this leadership colloquium!

