



OTTO VON GUERICKE
UNIVERSITÄT
MAGDEBURG

GSE

FAKULTÄT FÜR GEISTES-,
SOZIAL- UND ERZIEHUNGS-
WISSENSCHAFTEN

Final Report of the International Symposium

TVET Teachers and Trainers - Concepts in Academic Education and Research

Jenewein, Klaus & Stolte, Harry

IBBP-Arbeitsbericht Nr. 78

Januar 2011

ISSN 1437-8493

Arbeitsberichte des Instituts für Berufs- und Betriebspädagogik

Herausgeber:

Institut für Berufs- und Betriebspädagogik (IBBP)
der Otto-von-Guericke-Universität Magdeburg
Prof.'en Dr. Dietmar Frommberger, Dr. Klaus Jenewein, Dr. Sibylle Peters

Anschrift:

Otto-von-Guericke-Universität Magdeburg
Fakultät für Geistes-, Sozial- und Erziehungswissenschaften
Institut für Berufs- und Betriebspädagogik (IBBP)
Zschokkestr. 32
D-39104 Magdeburg

Tel.: +49 391 6716623

Fax: +49 391 6716550

Email: ibbp@ovgu.de

ISSN 1437-8493

TVET Teachers and Trainers - Concepts in Academic Education and Research

Jenewein, Klaus & Stolte, Harry

IBBP-Arbeitsbericht Nr. 78

Januar 2011

ISSN 1437-8493

Table of Content

1	Preamble	3
2	Magdeburg Symposium – Goals and Objectives	4
3	Results and Perspectives.....	5
a.	Education and Training for TVET Professionals.....	5
i.	Short term: Supporting Education and Training (Seminars, Workshops, Modules):.....	5
ii.	Long term: Joint Graduate Programs	5
iii.	In-service Training	6
b.	Joint TVET Research Activities	6
c.	Publications and Networking	7
4	Conclusion.....	8
5	Appendix	9
a.	Program.....	9
b.	Participation List.....	11

1 Preamble

"...since education is considered the key to effective development strategies, TVET must be the master key that can alleviate poverty, promote peace, conserve the environment, improve the quality of life for all and help achieve sustainable development" (Bonn Declaration 2004, The International UNESCO Experts Meeting, Bonn 2004).

Focusing on this pre-understanding and a common vision of a sustainable economic, ecological and social improvement in the world regions the UNEVOC-Network has worked out strategies for covering innovation and excellence in the regional technical and vocational education and training (TVET) systems. The participants of the Magdeburg symposium follow their joint idea of TVET having an important role in social, economic and technological innovation processes and building the foundation for capacity building and human resource development strategies in political and economic affairs.

Against the background of this understanding the group of TVET professionals has to assume an important role in the innovation processes for the improvement of the workforce and its employability in the changing world of work. As worked out by the UNEVOC-Network at the Hangzhou Conference 2004 the initial and further education of TVET professionals is to be seen as a key field of activities in the improvement and implementation of innovation strategies in developed as well as in developing countries of all the world regions.

In the new TVET strategy the promotion of TVET and skills development for a changing world of work within a broader framework of lifelong learning is focused by the UNESCO. The concentration on secondary and post-secondary TVET and on TVET in non-formal settings demands initial and further education activities for the full range of TVET professionals and the integration of TVET teachers, lecturers and trainers in activities of the international UNEVOC Centre network.

One important goal is to be seen in the improvement of TVET specific knowledge in the education for sustainable development. InWEnt and Magdeburg University are sharing different activities in the national vocational education and training system and in the East German region. Regarding these competencies there is a strong interest in the development and implementation of teaching and training activities in the field of TVET for sustainable development in the international UNEVOC network.

Furthermore, InWEnt is interested in the development of program oriented modules and programs for international capacity building activities in the field of TVET for sustainable development, and Fraunhofer IFF Magdeburg is interested in the support of these teaching training activities by the development of virtual and mixed reality based training systems.

2 Magdeburg Symposium – Goals and Objectives

Sharing of special skills in different working fields of international UNEVOC centres as a basis for future activities is the main objective of the Magdeburg symposium. With the idea of a “Global TVET Academy” the specific competencies of UNEVOC network members can be combined to a global program structure in working fields of education and training for TVET professionals. Connecting fields of skills with fields of demand can be a new role of the UNEVOC Centre network.

For working on these questions, the symposium was organized in the following structure:

- Opening statements highlighted actual topics of the TVET reform strategies from the UNESCO’s position and in the European context.
- Four case studies introduced current international cooperation strategies and existing experiences of UNEVOC partner institutions as examples for different world regions:
 - The European development in the TVET teacher training sector with reference to the European Bologna process (Germany)
 - East Asian follow up activities to the UNEVOC Hangzhou declaration on innovation and excellence in TVET Teacher/Trainer Education and its realization in an international joint master degree co-operation (China)
 - Capacity building and TVET teacher training system development in the frame of millennium strategies for workforce development on the African continent (Kenya)
 - Implementation of TVET in the secondary and post-secondary school level in the U.S. and responses for TVET teacher’s and trainer’s education in the U.S. university system (Ohio State University)
- Two workshops worked on aspects of international cooperation perspectives in the fields of
 - TVET teacher and trainer education programs
 - TVET research
- Fraunhofer IFF presented their research results in the area of technology enhanced training and demonstrated case studies of teaching and learning systems in the virtual and mixed reality environments of the VDTC.
- A final discussion focused on implementation and follow-up strategies of joint activities and networking in the UNEVOC framework.

3 Results and Perspectives

The UNEVOC network partners agree to share their TVET specific skills in the development and implementation of joint international activities. In the frame of a Global TVET Academy structure the following fields of joint activities were identified:

a. Education and Training for TVET Professionals

Most of the involved partners are identifying a big demand in their countries for education programs and training modules in different subjects of TVET. This regards different products starting with workshops and seminars, certified training modules up to graduate programs:

i. Short term: Supporting Education and Training (Seminars, Workshops, Modules):

The network identified specific skills as possible *offers* in working fields like

- a. Leadership and management training
- b. Curriculum development for TVET
- c. Financing of TVET
- d. Sustainable development in TVET
- e. Specific skills in vocational disciplines like business and administration
- f. (...)

The network identified specific *demands* in working fields like

- a. TVET financing
- b. Environmental management
- c. Occupational skills
- d. Special training methods, e.g. methods for in-service training
- e. (...)

ii. Long term: Joint Graduate Programs

The network identified specific *skills and experiences for the development for offers and specific demands* in working fields like

- a. Joint degree programs (e.g. Master programs) in TVET teacher and trainer education
- b. Joint training programs such as International Leadership Trainings

iii. In-service Training

Several network partners identified *specific demands* for training modules and shaping skills for different forms of in-service teacher training methods

b. Joint TVET Research Activities

In the network there are different institutions working within University structures as there are Otto-von-Guericke-University Magdeburg/Germany (OvGU), Korea University of Technology and Education Cheonan/South Korea (KUT), Tianjin University/China, Ohio State University/U.S.A. (OSU), and Sultan Qaboos University, Oman. All institutions have got the right to work in research structures including Ph.D. programs.

The network members from these institutions identified four main topics as relevant research areas based on specific experiences and research skills. Regarding these topics research skills can be used

- a. for the organization of modularized training schemes for joint Ph.D. activities,
- b. for the development of and application for fundings for joint research projects

The topics in detail:

○ *Occupational and Educational Studies*

Keywords are teaching and learning processes, curricula and curriculum development, core work processes in different vocational fields.

Interested partners: OvGU and KUT for joint research as Ph.D. activities.

○ *Human Resource Management and Leadership*

Keywords are lifelong learning strategies and methodology tools.

Interested partners: Tianjin University and KUT for joint research activities and Sultan Qaboos University for Ph.D. activities, the Oman ministry of manpower is interested in being involved in joint research activities.

○ *TVET for Sustainable Development*

Different specific skills in the training for Environmental Technologies and in Teaching and Learning Processes for Sustainable Development.

Interested partners: OvGU, KUT and Tianjin University for joint Ph.D. activities, OvGU and Magdeburg UNEVOC Centre "TVET for Sustainable Development" in cooperation with all partners for joint research activities.

○ *Comparative VET System analysis*

Keywords are lifelong learning and permeability.

Specific skills are identified by OVGU and KUT as a basis for joint Ph.D. and for joint research activities.

c. Publications and Networking

The partners evinced their interests in joint publication and networking activities in the framework of UNESCO UNEVOC structures. This includes the willingness

- to support transnational, regional and international networks,
- transnational project activities and
- conferences and publications between the UNEVOC partners.

4 Conclusion

The following steps of implementation are all-sides agreed:

- (1) Building up a modularized structure of teaching and researching skills in different fields of TVET (Initiators: InWEnt Magdeburg, UNESCO Headquarter Paris)
- (2) International co-operation in the development and implementation of an International Leadership Training program (Initiators: Magdeburg UNEVOC Centre, Colombo Plan Staff College Manila/Philippines)
- (3) International co-operation in the development and implementation of a joint Master program in TVET (Initiators: Otto-von-Guericke-University, Tianjin University, University of Education in Ho Chi Minh City/Vietnam in co-operation with different interested institutions)
- (4) Joint Ph.D.-Program in TVET (Initiators: Otto-von-Guericke-University, Tinajin University, Korea University of Technology and Education)

Details will be arranged in several agreements between the networking partners.

5 Appendix

Appendix 1

TVET Teachers and Trainers – Concepts and Experiences in Academic Education and Research

International Symposium
Magdeburg, September 14/15, 2010

a. Program

Tuesday, September 14, 2010

- 09:00 Welcome addresses and opening statements
- 09:30 UNESCO (tbc)
TVET-Strategy and it's Implication for TVET Teacher Training
- 10:00 OECD (tbc)
Learning for Jobs: Perspectives
- 10:30 Coffee Break
- 11:00 Soeren Nielsen, European Training Foundation
Evolving Roles of Teachers and Trainers related to the new Impetus for European Cooperation in TVET to Support the Europe 2020 strategy
- 11:30 Discussion
- 12:00 Lunch Break
- Case Study Session**
- 13:30 Prof. Klaus Jenewein, Magdeburg University
TVET Teacher & Trainer Education in Magdeburg: Perspectives for the International Cooperation Strategy of Magdeburg UNEVOC Center
- 14:15 Dr. Liu Yang, Tianjin University
TVET Teacher Education in East Asia in the Context of the UNEVOC Hangzhou Framework - Experiences with International Cooperation
- 14:45 Discussion
- 15:00 Coffee Break



United Nations
Educational, Scientific and
Cultural Organization

UNEVOC
NETWORK

UNEVOC Centre for "TVET
for Sustainable Development"
Magdeburg, Germany

- 15:30 Dr. Chris Zirkle, Department for Workforce Development and Education
Initial and Further Education Strategies for TVET Teachers and Trainers in the U.S.
- 16:00 Prof. Bonaventure Kerre, Moi University
TVET Teacher Education in Africa - Challenges and Opportunities
- 16:30 Discussion
- 18:00 Dinner organized

Wednesday, September 15, 2010

Workshop Session

- 11:30 Lunch Break
- 13:00 Final Discussion:
Summary/Conclusions, Suggestions for Follow up
- 15:00 Coffee Break
- 15:30 Dr. Eberhard Blümel, Fraunhofer IFF
Learning in Virtual Environments – Presentation of Virtual Reality-based Learning Systems

Appendix 2

International Symposium

TVET Teachers and Trainers - Concepts in academic Education and Research

Magdeburg, Germany, September 13 to 15, 2010

b. Participation List							
No		Title	Last Name	First Name	Organisation	Country	Contact
1.	Mrs.		Al Said	Hasna	Ministry of Manpower	Sultanat of Oman	hasna@osstc.de
2.	Mr.	Dr.	Blümel	Eberhard	IFF	Germany	Eberhard.bluemel@iff.fraunhofer.de



3.	Mr.	Prof. Dr.	Bui The Dung		University Hanoi	Vietnam	btdung@netnam.vn
4.	Mr.	Prof. Dr.	Bünning	Frank	University Kassel	Germany	Frank.buenning@uni-kassel.de
5.	Mr.	Prof.	Can	Tai Ba	UTE HCMC, Rector	Vietnam	cantb@hcmute.edu.vn
6.	Mr.		Chakroun	Borhene	UNESCO TVET Section		b.chakroun@unesco.org
7.	Mrs.		Dippmar	Beate	GTZ	Vietnam	Beate.Dippmar@gtz.de
8.	Mr.		Gleissner	Kai	Magdeburg University	Germany	Kai.gleissner@ovgu.de
9.	Mrs.		Howell	Wendi	Program Director, International Affairs UN- EVOC-US, Center for Education and Training for Employment, OSU	USA	howell.193@osu.edu
10.	Mr.	Prof. Dr.	Jenewein	Klaus	Magdeburg University	Germany	jenewein@ovgu.de
11.	Mr.	Prof. Dr.	Kerre	Bonaventure	Moi University	Kenia	bonaventurekerre@yahoo.com
12.	Ms.		Krichewsky	Lena	Magdeburg University	Germany	Lena.krichewsky@ovgu.de
13.	Mr.	Prof. Dr.	Lim	Se-Yung	Korea University of Technology and Education	Republic of Korea	seyounglim@hanmail.net
14.	Mrs.	Dr.	Liu	Yang	Tianjin University	China	liuyangtj@hotmail.com
15.	Mr.		Mahlman	Robert	Director of Center on Education and Training for Employment (CETE), OSU	USA	mahlman.1@osu.edu



United Nations
Educational, Scientific and
Cultural Organization

**UNEVO
NETWORK**

UNEVO Centre for "TVET
for Sustainable Development"
Magdeburg, Germany

16.	Mr.	Prof. Dr.	Majumdar	Shyamal	Director General of Colombo Plan Staff College for technician Education Pasig City 1600 Metro Manila	Phillippines	dr_majumdar@cpsctech.org
17.	Mr.		Markus	Schwertel	CISCO	Germany	mschwert@cisco.com
18.	Mr.		Maron	Klaus	MTS-CNC Berlin	Germany	
19.	Mr.		Masehat	Kunjung	Director of Poductivity Development Ministry of Manpower and Transmigration	Indonesia	putri.october@gmail.com; awbangkona@yahoo.com
20.	Mr.	Dr.	Mucauque	Francisco	Universität Rostock		f.mucauque@googlemail.com
21.	Mr.		Nielsen	Soeren	European Training Foundation		soren.nielsen@etf.europa.eu
22.	Mr.	Dr.	Pfeiffer	Hans Joachim	MTS-CNC	Germany	pfeiffer@mts-cnc.com
23.	Ms.		Putri	Indah Anggoro	Head of Division of International Cooperation and Legal Affair, Directorate General of Training and Productivity Development, Ministry of Manpower and Transmigration	Indonesia	putri.october@gmail.com; awbangkona@yahoo.com
24.	Ms.		Putri	Kusuma Wardhani Herthaning	EDUCON Indonesia	Indonesia	putri.october@gmail.com; awbangkona@yahoo.com
25.	Mr.		Rathahao	Chanthiam	President of Lao Printing Press Association	Laos	vedc@hotmail.com



United Nations
Educational, Scientific and
Cultural Organization

**UNEVOC
NETWORK**

UNEVOC Centre for "TVET
for Sustainable Development"
Magdeburg, Germany

26.	Mr.	Dr.	Schönbeck	Matthias	Magdeburg University	Germany	matthias.schoenbeck@ovgu.de
27.	Mr.		Siebeck	Frank	EBG Berlin	Germany	f.siebeck@ebg.de
28.	Mrs.	Prof. Dr.	Singo	Brígida	UP Maputo	Mosambik	bisingo@gmail.com
29.	Mr.		Sisoulath	Soulikhamkone	VEDC Vientiane, Director	Laos	vedc@hotmail.com
30.	Mr.	Dr.	Stolte	Harry	InWEnt Magdeburg	Germany	Harry.stolte@inwent.org
31.	Mr.		Thomas	Stefan	GTZ Eschborn	Deutschland	stefan.thomas1@gtz.de
32.	Mr.		Tumrongsuk	Somchai	Sattahip Technical College	Thailand	somtumsuk@gmail.com sattahip@hotmail.com
33.	Mr.	Prof.	Wang	Shibin	Tianjin University	China	shibinwang@tju.edu.cn
34.	Mr.	Prof.	Wang	Yijun	Tongji University	China	wyjxgh@tongji.edu.cn
35.	Mrs.		Wu	Quanquan	Central Institute for Vocational and Technical Education, Ministry of Education	China	wu_quanquan@126.net
36.	Mr.		Zirkle	Chris	Associate Professor, Ohio State University	USA	zirkle.6@osu.edu