



TECHNISCHE  
UNIVERSITÄT  
WIEN  
Vienna University of Technology



## Report of Faqiri Trip to Technological University of Vienna (TUV)

Written By: Associated Professor Amanullah Faqiri (Kabul Polytechnic University)  
Date: From (12/12/2008-12/02/2010)  
Submit to: Dip Ing Gabko Peter

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## Preface

Afghanistan is one of the countries that pasted 25 years ware 9 years ago every thing was damage also the higher education system was distraight.

Now the green light is on we want to renew or rehabilitation the higher education system basically.

This Program arranged on the base of contract between Kabul polytechnic university – technological university of Vienna- Slovak university of technology Bratislava and Asian institute of technology, under the topic of Euro Asia Partnership for development Human resource capacity of Engineering Education in Afghanistan.

According to this program Afghan Professors visit partner universities and shearing them knowledge between self

I am one of the Lecturer of Kabul polytechnic universities Faculty of construction Department of civil and Industrial construction that visit Technological university of Vienna.

This scientific Activity started from 10 December 2009 – 10 February 2010 when I arrived 14th of December in Vienna at 2:30 and directly came to TUV Inter national relation ship office and meet Dip Ing Gobko peter he is very kind person. And Miss Angelika is another member of this office she also too much kind. They arrange together Accommodation before for me, Great thanks for them. On that time they called to Professor Dr: juma haydary He is the professor in the Slovak university of technology Bratislava and coordinator of this program he have kindly attention to me, many, many thanks from him.

When I reach to my home and received every thing well. There is much facilities (Internet connection, kitchen, table for work and inter national and local telephone facility, television and any more .....).

Tomorrow morning Mr. Gobko Peter introduce me to Professor Herbert Mang He is the Head of Institute for mechanical of material structure and then I started my Activity.

First I should make a time table for the following of activity of course it's made. Here was 13 days long holiday for New Year from 23rd of December 2009 to 7<sup>th</sup> Jan 2010 but I was with University every day I came from 8 o'clock morning to 5 o'clock evening (including Saturday and Sunday). In this time I collected some journal from internet and scanned some important books that we need it in department.

The visiting of testing center is very important fortunately I saw all of them specifically and shear them experience with me

I tried that my report should be present with pictures.

With best regard  
Faqiri

## Abstract:

In this scientific activity I am following this program:  
Visiting all Technological university of Vienna during the visit I found that, This University has 8 faculties and each faculty has (4-11) institute  
Faculty for Architecture and Regional Planning with 7 institute  
Faculty for Civil Engineering with 9 institute  
Faculty for Mechanical Engineering and Business Science with 9 institute  
Faculty for Electrical Engineering and Information Technology with 11 institute  
Faculty for Mathematics and Geo information with 7 institute  
Faculty for Physics with 4 institute  
Faculty for Technical Chemistry with 4 institute  
Faculty for Informatics with 8 institute

I was busy with the Faculty of civil engineering and the Institute for Mechanics of Materials and Structures. And also there was a professional library for academic staff use only.

I studied there a lot of books but the professor Mang Advised me the Cement chemistry book really it was very interesting for me any time if I had a questions he explain me answer to my each question. In this case I am very glad from him.

I studied in the chemistry book some topics like: Portland cement and its major constituent phase, High temperature chemistry, the chemistry of Portland cement manufacture, Properties of Portland clinker and cement, Hydration of the calcium silicate phases, hydrated aluminates ferrite and sulfate phase, Hydration of Portland cement, Kinetics and modeling of the hydration process.

Also studied one new edition book of tunneling engineering (2009), tree books of the concrete properties and one journal about the earthquake in structure and also I scanned all of them with myself to the bringing for our lecture in Afghanistan. all of this facility arranged by Univ.Prof.Dip.eng Peter Gobko.

In this scientific program the secretary of professor's Mang the meeting and visiting program arrange for me (see the reports).

I visited four more university in Vienna and shear our idea with them that name was Inter national university of Vienna, Module University, Webster University and PEF Management University (see between the report).

I visited all of the testing center facility with responsible person (see report).

With best regard  
Faq

B

# Acknowledgements

I warmly thanks our director program Professor Dr. Juma Hydari from the Technical University Of Bratislava who has organized this important program for Kabul Polytechnic University for teachers in Civil Engineering in Bratislava and Vienna Technical University .He organized this study visit in the formwork of the project No.2007/147 063 A Euro Asia Partnership for Development Human Resource Capacity Building of Engineering Education in Afghanistan.



Figure No 1- Dr juma Haydari in his reaserch room

I am most grateful to Dip. Eng. GabkoPeter and his kind colleagues Madam Angelika officers Of International affairs of Vienna Technology University they arranged and managed my accomodate affairs in this visit to Austria from Afghanistan up to end of my staying in Vienna



Figure 2- Prof Dip.Ing.Peter Gobko in library and Angelika with the photocopy machine

I am also most grateful to Univ.Prof.Dr.Ing.Herbert A Mang and his secretaries that they arranged one Special office with all facilities for my work and made a specific plane for my visit .



Figure 3- Prof.Dr. A.Mang

Thanks again from Mrs.Astrid Schuh and Mrs. GABRIELE Ostrowski for Kindly Help me to the arrangement of visits, Meeting and other. Many-many thanks from both of them.



Figure 4- Mrs. Astrid Schuh and Mrs. GABRIELE Ostrowski They are to much hard worker and so busy

I most grateful to Univ.Prof.Dip.Eng.Dr.Josef Eberhardsteiner Dean of faculty of civil Engineering, He was so much kind person and full corporate with me all of the during my stay in Vienna He give me the curriculum of civil engineering department( but in Dutch). And any time he asks me about my stay, work, and facilities. I never forgot his kindly attention to me



Figure 5- Univ.Prof.Dip.Eng.Dr.Josef Eberhardsteiner Dean of faculty of civil Engineering

I thanks to univ.Prof.Dip.Ing.Dr.Christian Hellmich that he show me all of the important site for downloading of construction materials journals and any time he asking me about the problem, Also he give a list of publication and journals for study and downloading . Thanks again from him.

Figure 6- univ.Prof.Dip.Ing.Dr.Christian Hellmich

Also many-many thanks From Univ.Prof.Dip.Eng. Dr.Mahdi that he help me on the visiting all of the laboratory facility of construction department. And any time he asked me about the problem.



Figure 7- Univ.Prof.Dip.Eng. Dr.Mahdi

I most grateful from Univ.Prof.Dip.Eng.Dr.Amouzenh that he made more facility and give me his lecture classes. Any time he was smiling face and very hard worker person.



Figure 8- Univ.Prof.Dip.Eng.Dr.Amouzenh

Also I am thanks full from Dip.Ing.Dr.techn.Bernhard Pichler,when I asked him about the Academic journals and publication list he promised tow thins :

1- any journals that belong to me you can fine in the list I will give to you in here .

2- any journals that belong to me you can fine in the list I will send to Afghanistan.

This both things are very important for us. Thanks again from him.



Figure- 9- Dip.Ing.Dr.techn.Bernhard Pichler

The end of the knowledge topic I want to say many- many thanks from Dip.Ing.Dr.techn.Andreas Fritsch that he also give me his all of publications list for my study. And any time he asked me about the problems.



Figure -10- Dip.Ing.Dr.techn.Andreas Fritsc

# Meetings

According to the schedule I visited these professors:

1- Univ.Prof.Dr.Dipl.Eng.Herbert A. Mang PhD.: He is President of Institute for Mechanics of materials and structures.

When professor Dip .Eng Gobko Peter Introduce me to Prof Dr. Mang He warmly accept and him self give me asperity office for my working ( with facilities )..... .

Prof. Mang every day ask about my work and bring to me a lot of book for study (Cement chemistry, Tunneling Engineering, concrete, Reinforced concrete and ..... .

He was very kindly person .I never forgot his good attention to me.



Figure 7-Meeting with -Univ.Prof.Dip.Eng.Dr.Mang

2 - Many Thanks from Univ.Prof.dip.eng.Dr. Sonja FELBER She show me all of the facilities in piping engineering and also she give me one book (PRESSURE VESSEL TECHNOLOGY-2003)I never forgot that coffee when she made for me.



Figure 8- Univ.Prof.dip.eng.Dr. Sonja FELBER

3- After the few days as per Prof. Dr. Mang I meet Univ.Ass. Dipl.-Ing. Dr.techn. Matthias **Zeiml** Institute for Mechanics of Materials and Structures He is the in charge of the laboratory center. He kindly show me all of the facility of laboratory (including Picture).



Figure 9- Univ.Ass. Dipl.-Ing. Dr.techn. Matthias **Zeiml**



All this equipment they used by student when student made a sample after that they put all of these sample in stove with the suitable temperature , each group of student worked under the supervision of them Professors .



Some of this equipment are new and most of them was old but they kept it very well by maintenance department.

Also they tested by this equipment all of government and non government organization sample but each organization must be paid many for university

4- I was one of the participants in the meeting from the workshop of Partnership Management committee (PMC). A Euro-Asia Partnership for Development Human Resource Capacity of Engineering Education in Afghanistan. Held at Vienna University of Technology, Vienna, Austria January 12-15, 2010  
 In this meeting should be participate the chancellor of Kabul polytechnic university Dr Ezatullah Amed unfortuntnaly there was an urgent meeting because he couldn't came to this meeting as per his direction I have participate this meeting .



From left to right : Dip.Ing .Peter Gobko- Faqiri  
 Dr. Juma haydary



Oleg Shipin - Zuzana Letková-Faqiri-Dr.Haydary  
 Pavel Timár – Peter Gobko.



**EUROPEAN COMMISSION**

Asia-Link Programme

**Phase III**

## **Minutes from the workshop of**

PARTNERSHIP MANAGEMENT COMEETTEE (PMC)

### **A Euro-Asia Partnership for Development Human Resource Capacity of Engineering Education in Afghanistan**

**Reference: 123738/Contact 2007/147-063**

Held at:

Vienna University of Technology, Vienna, Austria  
**January 12-15, 2010**

Present participants:	Juma Haydary	STU Bratislava
	Pavel Timár	STU Bratislava
	Amanullah Faqiri	Kabul polytechnic University
	Peter Gabko	TU Vienna
	Oleg Shipin	AIT
	Zuzana Letková	STU Bratislava
Not present:	M. Naser Rahyab	Herat University

Mr. Peter Gabko

officially welcomed participants Vienna University of Technology (TU Vienna). Mr. Juma Haydary welcomed all participants and did thank to colleagues from TU Vienna for organization of this meeting. He also presented agenda of the meeting. Oleg Shipin expressed the wish to discuss further cooperation after the project Asia link is completed. Final agenda was approved by the participants.

PROGRAM: 1) Reports of the project activities from all partners based on minutes from the Bangkok meeting  
 2) Work-plan of the project for next period  
 3) Financial information  
 4) Scientific conference in Herat, Afghanistan, in April 2010  
 5) Further cooperation of partners after the project completion  
 6) Visit of TU Wien Facilities

#### **To point 1)**

- Second workshop was held in Bangkok, Thailand, in February 2009. Mr. Haydary thanked to Oleg Shipin and his colleagues for organizing the meeting which was very important from the coordination point of view.
- Conference “New trends in civil engineering and architecture” was held in Kabul in March-April, 2009. The conference was very successful and brought together more than 124 participants. More than 100 students participated on specialized seminars held at Polytechnic University in Kabul. Results from the conference including scientific contributions are published on the conference website. Hospitality and great organization was very appreciated by all participants. Mr. Haydary expressed many thanks to colleagues from Kabul for their cooperation. Among the most important participants was Slovak Ambassador from Iran, Mr. Hajduk.
- 2 MSc. students from KPU have started their study at AIT. There were many problems with arranging the study stay of Afghan students from organization as well as language and financial point of view. Students came to AIT in August 2009. Despite the language problems (one student is quite weak in English) and necessary tutoring, both students are clever and with appropriate support they probably will successfully complete the study.
- Short-term training courses were held at the Slovak university of Technology (3) and at the Vienna University of Technology (1). There were supposed to go 2 people from Herat to AIT but nobody was selected. This problem has to be solved as soon as possible. Mr. Haydary will go to Afghanistan in January and will solve this problem during his visit.
- Reports of participants from STU and Vienna are elaborated and published at the project website. Reports from 2 short-term students from AIT are needed. It is necessary for the future to secure delivery of the reports from the students prior they leave back to Afghanistan.

- There were visa arrangements problems reported for the short-term study stays of Afghan students at TUV. There is also lack of communication from the Herat University side.
- Due to delay of some activities, Mr. Haydary informed partners about possibility to prolong the project for several months but without additional funds.
- Mr. Haydary tried to pursue the partners to be more active in the project implementation and in attracting participants for coming conference in Herat. Also, they should be more accurate in delivering reports and accounting documents.

**To point 2)**

- The second workshop was held at TUV in January 2010
- Afghan students at STU will complete their studies in June and in September 2010. Students at AIT will finish their study stays in May 2011. Therefore, the completion of the project has to be harmonized with the completion of all project activities, e.g. by end of June 2011.
- Within the last period of the project, there will be realized 5 short-time trainings – 2 at STU Bratislava starting in May, 2 at AIT starting in February and 1 at TUV starting in May 2010. Selection process has to be better coordinated from time point of view in order to manage visas and other arrangements in time.
- Scientific conference in Herat, April 2010
- Final workshop of the project management committee will be held after completion of all project activities in 2011.

Work plan for next period: - proposal

Year 2														
Activity	Semester 1						Semester 2						Implementing body	
	Month 1	2	3	4	5	6	7	8	9	10	11	12		
Activity 3.4: Selection of people for short time training courses														The applicant Local partner 3 Local partner 4
Activity 3.5: Coordination of the travel of selected persons														All partners
Activity 3.6: Coordination of the stay at the partner universities														The applicant Local partner 1 Local partner 2



- Copies of all accounting documents have to be delivered by all partners to STU prior to completion of the project. Mr. Haydary will communicate with representatives of the project SHEP in Kabul after the changes in the SHEP project management.
- There were also financial issues relating to personal expenses consulted and agreed.

**To point 4)**

Scientific conference in Heart will be held in April 18-21, 2010. Conference brochure was distributed among potential participants and presented on the conference website. Information about the conference will be further distributed by the partners' institutions. Reminder letter will be sent soon to potential participants and partners.

Mr. Haydary requires from partners more active participation on organization of the conference and distribution of information on the conference. Partners were informed about financial arrangements for active conference participants.

Due to conference organization, Mr. Haydary will conduct the business trip to Herat in January 2010.

**To point 5)**

Mr. Haydary informed partners about continuing cooperation with KPU in the framework of the Slovak ODA programme. There was new two-year bilateral project approved by the Slovak government focused on development of university education. New possibilities for wider cooperation and funding have to be found.

Project partners expressed their will to cooperate after the completion of the project Asialink. Afghan partners should be more active in looking for new cooperation and funding possibilities. One of the possibilities is ERASMUS, World Bank, etc.

**To point 6)**

Participants of the workshop in Vienna visited some premises of the VUT (library, laboratory, they were also informed about new technologies and processes used at the VUT) and some historical places in Vienna.

In Vienna January 12-15, 2010

**Signatures**

Juma Haydary, STU Bratislava \_\_\_\_\_

Pavel Timár, STU Bratislava \_\_\_\_\_

Amanullah Faqiri, Kabul Polytechnic University \_\_\_\_\_

Peter Gabko, TU Vienna \_\_\_\_\_

Oleg Shipin, AIT \_\_\_\_\_

Zuzana Letková, STU Bratislava \_\_\_\_\_

These are some photo from meeting:



5- As per schedule I meet Univ. Prof. Dip. Ing. Dr.techn Christian Bucher he is professor in the Institute for Building construction and technology when I arrived to his office he was ready to meet me before he copied his tree journal for me and also he invite me to see them small library . there was a lot of books for study he promise with me full help in this area .



Figure – 10- Univ. Prof. Dip. Ing. Dr.techn Christian Bucher

6- I meet Univ.Ass. Dipl.-Ing. Dr.techn. Christian **Schranz** he is the in charge of Civil Engineering Computer Laboratory but he was very busy and hard worker man.



Figure 11- Univ.Ass. Dipl.-Ing. Dr.techn. Christian **Schranz**

All of my meeting Arranged by This tow kind ladies if some person called me about next meeting I refer that person to these tow active college Mrs. Mrs. Astrid Schuh and Mrs. GABRIELE Ostrowski



Figure-12- Mrs. Astrid Schuh



Figure 13- Mrs. GABRIELE Ostrowski

The TUV has many building each faculty has separate building all of the professors are very busy and working with student  
7- Meeting With Univ.Prof.Dr. Phil . Hans Kaiser :

Professor Kaiser is Vice-Rector of the TUV for International Relation He is very kind person when I arrived to his office the secretary told me he have meeting on that time he here me and call to secretary really I have a meeting with Professor Faqiri please coming to my office and invite me him self . but I never forgot the black and green then I drunk in his office I introduce our university (K.P.U) . He asked me any question about the situation in Afghanistan , number of student ,number of professors ,faculty department ..... and promise with me to full cooperation for Kabul polytechnic university I asked him about the scholar ship more fellowship and other support He kindly tolled me I will discuss to you on another meeting .



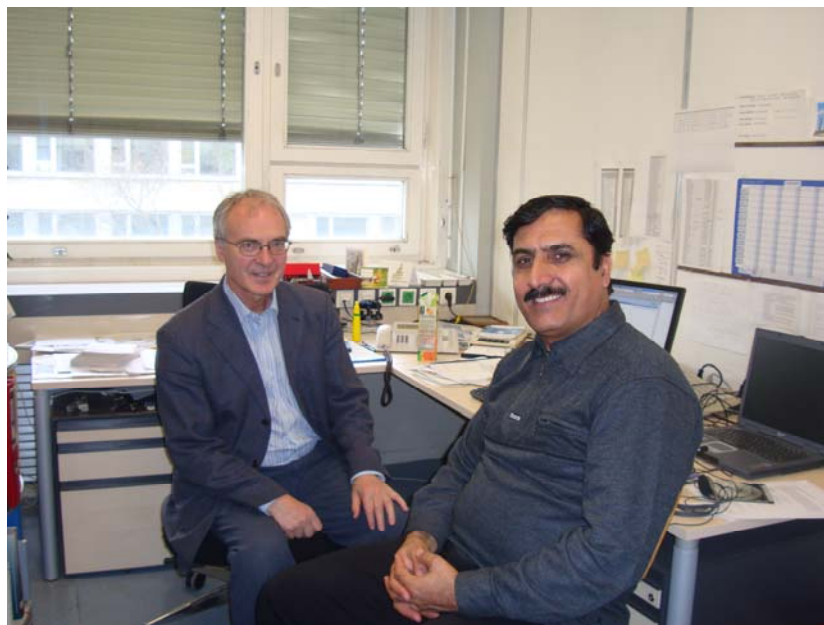
Figure 14- With Univ.Prof.Dr. Phil . Hans Kaiser Vice-Rector of the TUV for International Relation

8-When I saw The university website and found our related person in the steel structure his name is Univ.Prof.Dip.Ing.Dr.techn.Josaf Fink He was one of the professors of Institute for structural Engineering – steel structure . he tolled me we have a lot of materials but all of them by Dutch.If fine it by English send to your e-mail



Figure 15- Univ.Prof.Dip.Ing.Dr.techn.Josaf – and his college

9- As per chancellor of Kabul polytechnic university I should meet faculty of Electrical Engineering and Information Technology . I asked for This meeting fro secretary they kindly arranged this meeting also with Dean of studies Electrical engineering Dip.Ing.Dr.Heinrich Pangratz.He present me his Faculty and them facility .I asked him about the curriculum he tolled me every thing you can take from university website <http://www.tuwien.ac.at>



Figur-15- Dip.Ing.Dr.Heinrich Pangratz

10- Meeting with Univ. Prof. Dip.Ing.Dr Schneider ..... He was very kind person and give me alot of book I asked him if it is possible you can copy on CD He accept my this request and promised on Wednesday back to me (9/02/2010). And he tolled me please keep the contact with me we will support you in my field



Figure 16 - Univ. Prof. Dip.Ing.Dr Schneider

11- According the schedule I meet Univ.prof.Dip.Ing.Dr. Paul Brunner he is professor and Head of Institute for Water quality Resource , and Waste Management . he promised with me full cooperation in his field and he asked me we should introduce one person for the training in that department he also give me one copy of his publication list for searching.



Figure 17- Univ.prof.Dip.Ing.Dr. Paul Brunner

12- Second meeting with Vice Rector for International Relations – Univ.Prof.Dr.Phil.Hans Kaiser  
According to Previous meeting he called and give me the confirmation letter .( see attached).  
On the Base of this confirmation letter each afghan student Including (Bachelors masters and PhDs)  
Can attended free. I never forget his kindly attention to our people .



Figure-18- Univ.Prof.Dr.Phil.Hans Kaiser

Vice Rector Of (TUV) For International Relations Give me the confirmation letter