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No.014/015

# Newsletter

January-February, 2005



*Vice Chancellor, BUITMS & French Ambassador  
Exchanging the Signed M.O.U.*

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## Editorial

Educational maturity plays an important part in understanding things in their true perspective. For example, take the concept of development. To a highly educated person, it may involve ethics, tolerance, depth of vision, maturity of thought and social security. To a person with medium level of education, development may mean positive economic indicators, high standard of life, rich cultural values and security of life. A person at lower level of education may perceive development as construction of roads and abundant job opportunities. An illiterate person may not manage to give any meaning to rhetoric about development despite all the wisdom, he/she has to judge the truth. Importance and impact of on going development programs and development projects in any society can clearly be perceived only by an educated mind. It is, therefore, very important to provide ample opportunities of education to common man not only for eradication of illiteracy but also with the objective to impart higher education. Only then it will be possible to convince the people about good intentions of planners and managers in the center. Only education can help fill the communication gap between planners and masses and get rid of all the ills we are confronting with.

Balochistan remained less fortunate as far as higher education is concerned with first institution (Command and Staff College, Quetta) established in the beginning of twentieth century for specific education for military personnel. First college for general education was established in early forties of the last century in the building in which presently Govt. Science College Quetta is housed and was affiliated with Lahore Board for its intermediate stream and with Punjab University for graduate courses. First university of the province, the University of Balochistan came into being at the end of sixth decade of twentieth century. Presently there are four universities in public sector and two more are expected in near future. These universities not only fulfill the academic needs of the province but also play a vital role in bringing prosperity, harmony and unity. It will take some time to see the impact of these seats of higher learning on common man however it can be visualized that future of Balochistan will shine in the hands of graduates of these universities. It is hoped that some of these universities will bring recognition to the province like Cambridge and Oxford did for Britain and Stanford and Harvard are doing for US, and provide platform for students from different parts of country and abroad to interact with each other and bring global harmony. Signing of M.O.U by Vice Chancellor BUITMS and French Ambassador is a step forward in imparting quality education to the youth of Balochistan and bringing global harmony.





## Fourth Meeting of the Syndicate

*Report by: Prof. Sultan Mehmood Niazi  
Director Languages, BUITMS*

The fourth meeting of the Syndicate of the Balochistan University of Information Technology and Management Sciences was held on December 11, 2004 at the Takatu Campus, under the Chairmanship of Dr. Muhammad Abbas Choudhary Vice Chancellor, BUITMS. Besides the V.C the following attended the meeting:-

- Dr. A.Q. Mughal  
Representative of the Higher Education Commission.
- Dr. Shafi Shumail  
Lahore University of Management Sciences.
- Dr. M. Ayub Alvi  
Dean, National University of Computer & Engg Sciences, Islamabad.
- Mian M. Javaid  
Ex-Chairman PTCL, PTA, PEMRA.
- Mr. Fasih Iqbal  
Ex-Senator, Chief Editor, Balochistan Times & Zamana.
- Mr. Mehmood Mengal  
Dy. Secretary, I.T. Deptt, Govt of Balochistan.
- Mr. Adwin Pasha  
Chief of Section (I.T) P&D Deptt, Govt of Balochistan.
- Dr. Ahmed Ali Baloch  
Principal, Govt Agriculture College, Quetta.
- Prof. Fazle Haq Mir  
President, Tamir-e-Nau Education Foundation.
- Prof. Kausar Agha  
Principal, Govt Girls Degree College, Quetta Cantt.
- Mr. Azam Baloch  
Registrar, BUITMS.
- Dr. Zafar Yab  
Dean, Faculty of Management Sciences, BUITMS.
- Dr. M.A.K Malghani  
Dean, Faculty of Biotechnology & Informatics, BUITMS.
- Dr. Sabir Usmani  
Dean, Faculty of Computer & Emerging Sciences, BUITMS.
- Dr. Muhammad Nawaz  
Chairman, Deptt of Computer & Emerging Sciences, BUITMS.
- Dr. Azam Tahir  
Chairman, Deptt of Management Sciences, BUITMS.

- Mr. Khalid Mengal  
Deptt of Computer & Emerging Sciences, BUITMS.
- Mr. Umer Hayat  
Deptt of Mathematics, BUITMS.



*(Members of the Syndicate, BUITMS)*

The meeting started with the recitation of verses from the Holy Quran by Dr. Zafar Yab. The Chairman welcomed the participants. Rich tributes were paid to Justice (Retd) M.A. Rashid, Ex-Vice Chancellor, University of Balochistan, for his valuable services to the cause of education in the province. Mr. Ghulam Mohammad Taj was welcomed with the hopes that he would continue the good work done by his predecessor in restoring the image of the University of Balochistan. The meeting was briefed on the handing over of the Bolan Textile Mills premises to BUITMS and the establishment of class rooms and laboratories there. They were also apprised of the sinking of a tube well which has now become functional. The salient features of the design plan of the Takatu Campus prepared by Nespak also came under consideration.



*(Members of Syndicate visiting Takatu Campus)*

Mian Mohammad Javaid appreciated the hard work put in by the Vice Chancellor and his staff in converting an industrial complex into an academic institution in a short span of time. The agenda items for the meeting included:-





- Confirmation of the minutes of the 3rd meeting of the Syndicate.
- Review of the implementation status of the decisions taken at the third meeting of the Syndicate.
- Amendments in the BUITMS Ordinance, 2002 in the light of the Model University Ordinance 2002 and steps for their enactment.
- Ratification of the 5 year Development Plan of BUITMS.
- Appointment of a Commercial Auditor for conducting audit of the University accounts.



*(Members of Syndicate visiting Takatu Campus)*

- Formulation of Service Statutes for appointment of the academic staff under the regular and the tenure track system.
- Formulation of Pay scales for the BUITMS employees.
- Approval of the recommendations of the Selection Board regarding appointment of the teaching staff.



*(Syndicate Meeting in Progress)*

- Ratification of the new academic programs started at the University. These included BS (Eco); BS (Petroleum & Gas) and BS (Textile Engg).
- Approval of the contracts entered into by the University.
- Constitution of the Board of Advanced Studies and Research.
- Review of the Merit Scholarship Policy.



*(Deans and Chairmen of Faculties of BUITMS)*

The meeting concluded with thanks to the chair. Earlier the members of the Syndicate were taken around the Takatu Campus. They visited the faculty of Engineering and Applied Sciences, the Faculty of Textile Engg, the Faculty of Petroleum & Gas Engg and the Department of Computer Engineering, Computer Sciences & Electronic Engg. They were highly impressed by the pace of work of the under construction Owais Ahmed Ghani Research Center and other development projects including the playgrounds, courts and gymnasium.

### **Iranian Delegation's Visit to BUITMS, Quetta.**

**Report: - Masroor Alam khan**  
**Media Manager, BUITMS.**

A Four member Iranian delegation headed by Iranian Consul General, Quetta Mr. Hussain Kashmiri visited Balochistan University of Information Technology and Management Sciences on 16th December 2004.



*(Group photo with Iranian Delegation, BUITMS)*

The Vice Chancellor informed the Iranian delegation about the academic activities of the University. The Consul General of Iran with his delegation was taken around the different Depts. Of the University. He showed great interest in the Lab equipment and other physical facilities available at BUITMS. The Vice Chancellor showed them Computer Labs, Class rooms, laboratories, Library, Examination Rooms and faculties.





*(VC briefing the Iranian Delegation)*

The Iranian delegation expressed the hope that the academic environment at the BUITMS would give a much needed boost to the development and progress of the Province and the country at large. They showed great interest in the academic and research activities of the University. The leader of the Iranian delegation revealed during his discussions with the Vice Chancellor that he had also visited the Campus two years back, but he was delighted to observe that in a very short span of time, the university had made rapid progress and proved to be the most well equipped institution of higher education in the country under the dynamic leadership of the Dr. Mohammad Abbas Choudhary. After completing the round the Iranian delegation came to the Syndicate Room with the Vice Chancellor and the faculty members. The Vice Chancellor introduced the academic and administrative staff to the Iranian delegation. All the members provided brief resume of their assignments and Dr. Mohammad Abbas Choudhary gave detailed briefing on the Progress of BUITMS on Multimedia. The delegation was informed that the basic Policy of the University is to maintain merit in every respect. He also said that BUITMS is an institution that is provincial in implementation but National and world class in its out look. Students not only from all over the country but also from abroad are admitted on merit. Presently we have three Campuses i.e. The City Campus, The Takatu Campus and The Chiltan Campus. The Vice Chancellor further informed the delegation that BUITMS had started teaching at the Takatu campus with the start of the fall, 2004 Semester.

We have recently started Petroleum, Gas and Textile Engineering faculties at Takatu Campus. He expressed the hope that Pakistan and the brother Islamic country Iran would co-operate in the field of Technology and share skills under the exchange Program of Education on Govt-to-Govt level through a Memorandum of understanding (MOU). Before

their departure the leader of the Iranian delegation Mr. Hussain Kashmiri appreciated the hospitality of the Vice Chancellor and his team and recorded his impressions in the visitors' book. The Vice Chancellor presented a shield to the Head of the Iranian delegation at the conclusion of meeting.



*(VC presenting the shield to Iranian Delegation)*

### **Lecture by University of Minnesota (USA) Scholar**

*Report by: Dr. Arif Kazmi*

On January 7th, 2005, Prof. Dr. Reza-ul-Karim of the University of Minnesota addressed a seminar in the Auditorium of the city Campus of the BUITMS. The seminar was sponsored by the Faculty of Biotechnology and Informatics. The topic of the seminar was "Bioactivity of some plant chemicals towards Bacteria and Viruses."

Prof. Dr. Arif Kazmi introduced the speaker. Prof. Karim was born in Dhaka. He received his early education in East Pakistan. He started his Engineering education in Dhaka but later on he realized that he wanted to study Microbiology and moved to the University of Karachi which was the only university at that time in Pakistan with a degree program in his chosen subject. Dr. Reza-ul-Karim obtained his B.Sc. (Hons.) from the University of Karachi and then moved on to U.S.A. where he secured his M.S. and Ph.D. degrees at the Universities of Minnesota and Montana. Over the years, he held several academic appointments in various parts of USA including such highly coveted administrative posts as Dean of Graduate School at Westchester State University in Pennsylvania and later as Associate Vice-Chancellor at the University of Minnesota. Ultimately Dr. Karim left his administrative functions to return to full time research and teaching at the University of Minnesota. In the seminar at BUITMS, Dr. Karim described his research on the bioactivity of the bark of *Betula Papyrifera*, a white birch used for centuries by the native Americans for treatment of a variety of illnesses. Explaining how he decided to undertake this





research, Dr. Karim said that one day while taking a long walk in the forest near the University of Minnesota, he noticed some unique phenomenon. That was a white birch forest and had a number of fallen dead birch trees. He noticed that wherever the white bark of the tree had been peeled the dead trees were heavily infected and were in an advanced stage of decay while the white bark appeared to have a protective function on those parts of the trees which had managed to retain the bark. It immediately occurred to Dr. Karim that the white bark must have a definite microbial and protective function. He thus described his research as follows:

“Extracts and pure chemical compounds from over twenty-five plant species were tested for bioactivity against viruses, bacteria and fungi in the laboratories in collaboration with scholars from the United States, Pakistan, Bangladesh, Vietnam, Mauritius, Turkey, Niger, Germany and other European Countries. These plant extracts and chemicals were found to be effective against a wide range of microorganisms leading us to investigate the chemical composition and bioactivity of the bark of *Betula papyrifera*, a white birch, used by the Native Americans for centuries to treat a variety of illnesses, and for making canoes, tent covers, vessels, etc. Our decade long in vitro and a few in vivo studies show that Betulin, a pentacyclic triterpenoid, isolated from the birch bark, and a few other derivatives of Betulin are very effective against many DNA viruses, gram positive and gram negative bacteria, and both saprophytic and pathogenic plant and/or human fungi compared to many available chemicals or drugs for treating diseases caused by the above organisms. Betulin is found to be hundred times more effective than acycloguanosine against HSV1 and HSV2, and the EC<sub>50</sub> (um) of Betulin 3-28 diphosphate against Epstein-Barr virus is  $0.6 \pm 0.3$ . Cell cycle analyses show that Betulin highly inhibits the viral infectivity due to suppression of viral glycoprotein D expression, possibly interfering with viral entry, penetration or cell to cell spread. Betulin and its derivatives may be useful tools in further elucidating the role of glycoprotein C and D in HSV pathogenesis. More work is in progress to determine the regulation of cell cycle during infections by DNA and RNA viruses.”

Following Dr. Karim's presentation there was a lively question and answer session. Prof. Dr. Abbas Choudhary, Vice-Chancellor of BUITMS, in his Presidential address commended Dr. Karim's research and stressed the need for collaborative research and student and faculty exchange between Universities located in our two countries. Dr. M.A.K. Malghani, Dean Biotechnology and Informatics and Director Research thanked the VC, the speaker and the audience.

## Seminar on Introduction to Petroleum Industry

**Organized by: Society of Petroleum Engineers(SPE)  
USA Quetta Students Chapter (BUIITS).**

**Reported by:**

**M. Jehanzeb Hashmi BS (P&G) Engineering  
1st Semester. Date: December 30, 2004**

A one day seminar organized by SPE-USA Quetta Students Chapter (BUIITS) was held on December 29, 2004, under the Patronage of Dr. Muhammad Abbas Choudhary and under the Chairmanship of Prof. Dr. Syed Abid Hussain (Dean, Faculty of Engineering & Applied Sciences). Mr. Yasir Qayyum Malik acted as the Coordinator and resource person. Mr. Salman Akram Mengal, Assistant Production Engineer Oil & Gas Development Corporation (OGDC) was the guest speaker on the occasion. The President of SPE-USA Quetta, Mr. Mengal delivered his lecture on “Introduction to Petroleum” for about 4 hours. He covered all aspects of the petroleum industry from exploration to development and marketing. He also talked about his experiences in the field.



*(Lecture on Petroleum Industry)*

He envisaged a bright future of Petroleum Engineers in Pakistan and particularly of the students of Petroleum and Gas Engineering Department of BUITMS Quetta. The International Petroleum Exploration Companies are investing huge amounts of money in Pakistan. The prolific Balochistan Basin has a tremendous potential for keeping the interest of international oil exploration which are planning to dig more and more wells in this province.

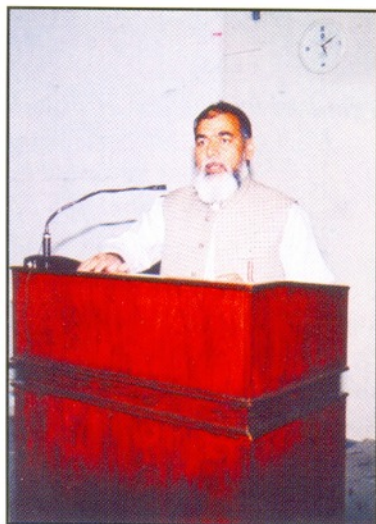
Mr. Jehanzeb Ali Bugti pointed out the benefits of SPE after the lecture. Some of them are as follows:-

1. Interaction of students with senior Petroleum Engineers working in Pakistan and abroad by way of meetings lectures and talks etc.
2. SPE-USA provides concessions to the student members on purchase of books and publications (range of concessions 25-50%).





(Vice Chancellor;  
BUI/TMS  
Briefing the Audience)



3. A journal JPT (Journal of Petroleum Technology, USA) is sent free of cost to members every month, to keep them aware of the activities of the Petroleum Industry.

4. The softwares developed by SPE-USA and used in modern Petroleum and Gas Industry are sent free of cost to members.

5. The Department will be able to get information about internships and employment opportunities available in Petroleum and Gas industry abroad.

6. A general awareness about the advancements in Petroleum & Gas industry obtained through this interaction of senior members with the students.

7. Finally, the University and the Department will be projected throughout Pakistan among participating members of the society facilitating our students to get internships and employment opportunities in Pakistan in future.

Mr. Salman Mengal appreciated the efforts made by the university and the members of SPE-USA Quetta Students Chapter (BUI/TMS) and promised his positive response towards such activities in future, with best wishes for Petroleum and Gas Engineers produced by the Petroleum and Gas Engineering Department, BUI/TMS, Quetta.



## Signing of M.O.U with the Ambassador of France

*Report by: Prof. Sultan Mehmood Niazi,  
Director Languages & Miss. Afsheen Nighat,  
PRO, BUITMS*

BUITMS launched the French Online Program in collaboration with the Embassy of France in Pakistan and Alliance Francaise. The M.O.U signing ceremony was held on the 9th of February at the University Auditorium. A number of notables including Dr. Shahida Jaffery (Vice Chancellor, Sardar Bahadur Khan Women University), Sardar Naseer Khan Tareen (French Honorary Consul of France to Balochistan), Prof. Philips (Agha Khan University), Dr. Ouafae Sananes (Project Coordinator of French Online Program) and senior faculty and management of BUITMS were present on the occasion.



(Group photo with French Delegation)

Mian Zaheer Ahmed, a student BS (Eco) started the proceedings with the recitation of verses from the Holy Quran. Dr. Muhammad Abbas Choudhary, Vice Chancellor, BUITMS in his welcome address to the Honorable guests gave a brief introduction of the University describing its various phases of development to the present level. He observed that the journey from a few BS level programs to 33 academic programs including 4 Ph.D level programs in really phenomenal. The University has attracted students not only from Pakistan but from Afghanistan, Iran, Bangladesh, Malaysia and Jordan as well. He pointed out that every fourth teacher holds a Ph.D and every 5th students receive a scholarship/ financial award or need-based assistance.

He remarked that BUITMS is an institution with a heart which is always at the forefront of activity on civic and community issues, be it fund raising for the earth quake victims of Bam in Iran or the Tsunami victims in South Asia or the South East Asia.

In his witty style, the V.C went on to pin-point various





Language as it would open new vistas of opportunities and understanding for our students.

He said "I am not a Darwinian; I believe in the theory of special creation. I believe that all the French and Pakistani have the common ancestors I mean Adam & Eve and not the funny animal that English Scientists Darwin through was his ancestor. Since Darwin was an Englishman he has all the right to speak for himself that who was his ancestor but has no right to speak on my behalf and on behalf of French that who was our ancestor. I am saying this because Napoleon Bonaparte returned from Egypt and historians tell us that his ancestors were Arabs. Further the French regional celebration, folklore and traditional garbs can be traced to a history of settlement and invasion sometimes subtle, often violent by Druids, Celts, Normans, Huns, Greeks, Romans, and numerous other civilization. Evidence of human population within ancient Gaul can be traced back nearly 30,000 years".



*(French Ambassador along with VC and Controller Examination, BUITMS)*

He went on to state "I found the French history very fascinating, the colonial moves before the French revolution, French revolution itself which is through very painful but enlightening in the history of nations and colonial move after the revolution. The transformation of France from a monarchical state with the rigid social hierarchy into a modern nation in which the social structure was loosened and power past increasingly to the middle classes during the French revolution is enlightening. I think French is a very wise nation and see very far in the future and very intelligently gave India and Canada to Britain because they knew that Britons are any how going to loose them to Canadians and Indians sooner or later.

The sale of Louisiana to United States by Napoleon-I was also a mindful move because France got something in return. We also made lots of great moves and committed some serious follies as well. That is what history is all about. The lesson of the history is that nobody learns from the history. If I had a choice I would make it compulsory for everyone particularly

the people in leadership positions to pass the world history paper with a grade. To make it more authentic, I would have suggested that Dr. Zafar Yab examine and grade them".

He expressed his willingness to extend the scope of academic and research cooperation and collaboration of further.

In his reply to the welcome address, The Ambassador of France to Pakistan, Pierre Charasse said that France is looking for strengthening the friendship between the two countries and believed that the French Online Program launched in Quetta would help a long way in improving the existing relations between the two nations.

His Excellency Charasse said that launching of the French Online at the BUITMS has a particular meaning since the programme has met all the requirements in terms of technology.

"The objective of this programme is to reach the people who would like to learn French especially in the areas where the network of French cultural center is not available", he said and added "it is also aimed at learning French for those who have been selected to study in France." He said that it offers an opportunity to learn French to any body desirous of doing so but unable to attend regular classes. But, at the same time, he maintained behind the teaching of a language, France is also keen in contributing to the development by forming a basis for exchange and cooperation at the university level.



*(VC and French Ambassador signing the MOU)*

He said that what is his aim is to show that learning the French language is only a stepping stone. "In fact, it opens other vistas of cooperation and brightens the prospects of French speaking people in Pakistan. It contributes towards bringing them in the job market and increases the opportunities of working on the international level."

He said that of course there could be so many reasons for learning French, but whatever the reason learning French means, sharing of knowledge, learning to know others and acquiring a more open-minded





towards the world.

He said that since the nineties, teaching of language through the medium of the Internet has developed tremendously in the entire world. It thus seems to be directly related to the globalization and the era of communication in the modern societies. However, at the same time the gap between the countries of the North and South is greater than ever. That's why, on many occasions, France has called to digital solidarity in order to overcome the digital divide that separates the developed countries from the developing ones. The reason is that this digital divide is aggravating the regional and social inequalities and goes hand in hand with an economic, social and culture gap.



*(VC giving the shield to French Ambassador)*

The French diplomat said that the e-learning is one of the key methods to create economic dynamics. It plays an important role in giving equal access to knowledge and its dissemination. He informed the audience about the importance of French language. He said that French is spoken more than 181 million people across the five continents and is learnt. It is one of the six official working languages in the United Nations and in Europe. Learning of French language can also open new horizons to the French speaking people in Pakistan. He maintained that this language constitutes a link between 56 countries who share French. In this manner, it consolidates the ties between its people and promotes cultural and linguistic diversity.

Mr. Charasse said that the French government's policy of the promotion and dissemination of the French language rests on two axes: solidarity with our partner countries, and the promotion of dialogue between cultures in order to promote respect for cultural diversity. He went on to say that "together let us make the learning of French the site for a meaningful dialogue between cultures, a door that opens towards tolerance, justice and peace".

He deeply hoped that Balochistan would recover soon its stability which could lead to the development, and establish the basis of an effective take-off. Referring to the collaboration between Pakistan and France, the French envoy said that the collaboration between the

two countries did not start today, but was initiated many years ago, particularly in collaboration with eminent archeologist.

About the collaboration in the field of education, the French ambassador referred to some projects that have contributed to the strengthening of the relations of the two countries in the field of scientific and higher studies. For instance, he said, in 2004, in collaboration with the HEC, 67 Pakistani students benefited from a post graduate studies programme. The success of this programme could be gauged from the fact that in 2004, more than 1800 students applied for studies in France.

He mentioned that our policy for cooperation in scientific and post graduate studies has gained momentum this year by the introduction of the Education Officers in all the main French Cultural Centers of Pakistan. The purpose is to provide advice and to facilitate students who would like to go to France for higher studies.

## Training of Sun Blade Machines and Solaris 9 OS Environment

*Report by: Jehanzeb Abbas*

In order to meet the high standards of education in the field of Information Technology, BUITMS has set up a SUN Computing Lab which is equipped with the latest Sun-Blade machines running on the latest release of Solaris 9 Operating System. This lab comprises of 50 RISC based SUN-Blade Machines and is among the very few present in Pakistan and is one of its own kind, which will give students and the faculty members an opportunity to learn, experiment and well equip themselves in the fields of Digital Image Processing, Operating Systems, Real-time Data Acquisition, Networking, Solaris Administration and many more. Today SUN machines environment is present in some of the top companies like Schlumberger, British Petroleum, ABN AMRO Bank and many others.

To give students and faculty members further exposure to understand the architecture of Sun-Blade Machines and to acquaint them with the Solaris 9 OS environment, a training workshop of 1 week under Mr. Inayatullah Khan, Support Manager, Synergy Computers (Pvt) Ltd. was held at the SUN-Lab, Takatu Campus from 10th-15th January 2005. This workshop started with a brief introduction and history of different Operating Systems like Windows, UNIX, LINUX and Solaris. The next part of the workshop dealt with understanding of RISC Based Architecture of SUN Machines. Teachers and Students were further trained for ADMIN 1 and ADMIN 2 papers conducted by SUN Microsystems.





This workshop motivated many students to explore this new paradigm of Computer Science. Students' Feedback indicated that such workshops should be organized frequently to give them an insight of latest research and industrial working environment adopted by some of the finest places in the world. Hence, BUITMS will (Insha-Allah) continue its efforts to promote quality academic programs combined with application training on actual industrial problems to provide a targeted education, complemented by hands-on, real-world development exposure.

### **Vice Chancellor's Visit to Command and Staff College, Quetta**

Dr. Muhammad Abbas Choudhary, Vice Chancellor of Balochistan University of Information Technology and Management Sciences (BUI-TMS) Quetta, accompanied with senior faculty members, visited the Command & Staff College, Quetta on 10th January 2005 on the invitation of Commandant Maj. Gen. Mohsin Kamal. On arrival, they were given briefing about Staff College which was established in April 1905. The college has the honour to receive Quid-e-Azam Mohammad Ali Jinnah on 14th June 1948. Queen Elizabeth II of Great Britain also visited Staff College Quetta on 5th February 1951. Staff College Quetta is pride for Pakistan and officers from several countries including Canada and Australia have received training from this college. Curriculum of the college emphasizes mainly on professional studies and clear understanding of military methodology with adequate knowledge of research and developmental sciences.

After briefing, Dr. Mohammad Abbas Choudhary and his team visited the building of the college including its computer section and the library. At the end of the visit the Vice Chancellor and the Commandant of the college exchanged souvenirs.

Media Cell which has been developed for academic purpose on latest technology was also visited with well qualified and competent staff.

### **Vertical Air Tunnel Wind Turbine Power Generation Research Project**

*Dr. Maqsood A. Khan,  
Associate Professor,*

*Center for Environmental Management  
& Policy, BUITMS, Quetta*

The Government of Pakistan has stressed the need of developing alternative energy sources to cater to the growing needs of electricity



in the country. The energy sector in Pakistan is under threat because of the population growth, rapid industrialization and fast diminishing traditional power generation resources. It is therefore, incumbent on the scientists and engineers to devise alternative energy sources to supplement the present generation capacity.

Water and Power Development Authority (WAPDA) is presently generating 17,600 MW electricity, which is 6,000 MW less than the current requirement. The demand is expected to escalate to 26,000 MW over the next three decades. It is also very important for the scientific community of Pakistan to make strenuous efforts to help the government keep the electricity rates within the means of the common man.

Millions of people in the remote areas of our nation have no electricity. Poor lighting in homes hinders children's learning, affects family health and limits opportunities for a better life. The challenge for our scientists and engineers is to identify clever, economically viable answers to such issues.

Wind is the fastest growing source of electricity in the world. Across Balochistan, electricity can be generated from wind to power homes and businesses in a clean, reliable and efficient manner.

Balochistan is a mountainous and arid area and offers many attractive sites for locating a Vertical Tunnel Wind Turbine for the generation of energy from artificially induced winds. One such site is located in Quetta Valley in the Takatu Mountain Range near the existing poultry farm (in the area of Chashma Achozai) to the north-east of BUITMS Takatu Campus at Baleli.

With the initiative of the Alternative Energy Development Board (AEDB), Prime Minister's Secretariat, Islamabad, BUITMS has planned to start the Vertical Air Tunnel Wind Turbine Power Generation Research Project for studying the suitability / feasibility of this type of wind energy system under conditions encountered in Balochistan.

Wind Turbine Power Generation Research Project will also provide students with a broad, fundamental and flexible education and would expand their knowledge through an active and exciting research program. It would also address issues such as the social and environmental aspects of energy use, as well as the economic and scientific aspects of conventional and sustainable energy generation and its use.

Wind turbines, like aircraft propeller blades, turn in the moving air and power an electric generator that supplies the electric current. Simply stated, a wind turbine is the opposite of a fan. Instead of using electricity to make wind, like a fan, wind turbines use





wind to make electricity. The wind turns the blades, which spin a shaft, connected to a generator and produces electricity.

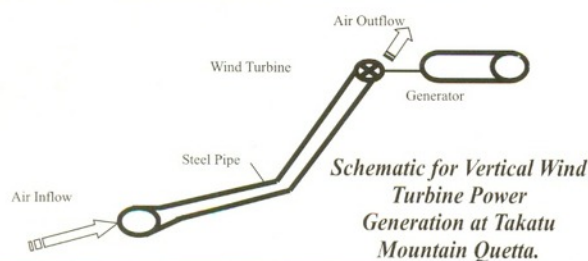
Wind turbines can be designed to operate either at variable speeds or at a single fixed speed. The variable speed designs are more complex but they convert wind power into electricity more efficiently; recent advances have made them the best choice for most new projects. Most wind turbines are designed to use wind blowing at 9-65 mph.

As opposed to normal wind energy machines (windmills), which exploit the energy in natural winds, the Vertical Wind Turbine aims at the artificial generation of high speed air currents (wind) by employing a very tall Vertical or near vertical Tunnel or Chimney, which utilizes the natural atmospheric temperature and pressure difference existing between the base and the top of the tunnel due to change in elevation which, in turn, induces an upward air current in the tunnel. Wind tunnels can be built on / near a mound or a hill to catch the wind but flat areas could also be the suitable sites.

Clean environment, energy independence, new employment opportunities, technology transfer, and improvement of living conditions are some of the benefits of the wind power generation.

A five (5) feet diameter steel tunnel will be installed to give a total height of 1000 feet. For energy generation, two different designs of Air Turbines will operate an Electric Generator to produce electricity. The performance of the Tunnel and Turbines will be evaluated.

The success of this project would provide an alternative energy generation source, very well suited to the conditions encountered in Balochistan.



### IPRA Excellence Award Conferred on Ms. Afsheen Nighat, PRO, BUITMS.

The Public Relations officer (PRO) of the Balochistan University of Information Technology and Management Sciences, Mrs. Afsheen Nighat was honored with the conferring of the IPRA crown and Excellence Award 2004.



International Public Relations Association (IPRA) conferred the award on her in recognition of her services in the field of Public Relations at a ceremony held in Islamabad. It is a matter of pride for all of us at BUITMS.

### The Best Ambitions Society (BAS) of BUITMS

*Report by: Mr. Abdul Rehman  
Lecturer, Management Sciences, BUITMS*

"The Best Ambitions Society" (BAS) of BUITMS was established on 22nd December 2004. BAS is a student council of BUITMS which would provide a platform to all students. Where they would be able to share their ideas with the global community. It is a society planned and organized by the students of Management Sciences. Now BAS has been expanded to the all University Departments, in order to involve them in the betterment of the University and Country. In BAS we would train all students who would work for the promotion of their lives and country. Apart from training we would be arranging all skill building activities for the betterment of students in the light of their achievements. The seed which sown today by BAS would give you fruit tomorrow.

### Mission Statement of BAS

"Our mission is to direct all our students' educational, social and local efforts at building up the existing university strengths and brand recognition to the enhanced levels of real growth in core business, and diversify into new areas that complement and supplement the core business world, with diversification aimed at achieving excellence and best leader status in new areas. The BAS members will always be encouraged to be open to unconventional ideas and services and recognize new trends at very early stages."

### BAS's OBJECTIVES

- To provide all practical skill building activities to students
- Dealing with student affairs including projects, course problems, other related problems.
- Arranging seminars, workshops, projects, exhibitions, speeches, conferences, and conducting lectures.
- To build up a friendly atmosphere among all the students affairs relating academic problems.





- To provide a platform where they can easily share their ideas without any hesitation
- Arranging national level competitions to make students competitive
- Society strongly emphasizes on the eradication of smoking in institutions
- Protection to human rights which is core to development
- Human welfare
- Human development
- Social welfare
- Social development
- Economics welfare
- Economics Development
- Influencing people to be creative
- Creating amongst the students respect for human being without being materialistic in their approach.
- Motivating human beings to live not to lead life.
- Every student would be trained to handle every hurdle of life
- Promoting activities in social context.
- Designing a completely new education system which would change the concepts of education, from being job oriented to self and social development oriented.
- Creating a sense of cooperation, love and brotherhood
- Entering the society rapidly into every developed sector
- Doing different kinds of educational activities with the facilities of providing them all the sports activities.
- Holding various declamation contests to promote knowledge and attitude with people.

### Members of BAS Society of BUITMS

- Abdul Rehman (Chairman).
- Abdul Raziq (President).
- Arbab Naseebullah (University Student's representative, MBA (R)-3rd-B).
- Abdul Malik (University Camptain, MBA (R)-5th semester).
- Mohammad Haroon (University Captain, MBA (R)-3rd-A).
- Fareed Ahmed (University Captain, BS (BA)-6th semester).
- Miss Saima (University Captain, Lecturer, BUITMS).
- Feroz Kakar (University Captain, BS (EE)-3rd semester).
- Under supervision of each University Captain there will be 18 members with designation of

Media Secretary Person (MSP), Affairs Secretary Person (ASP), Literary Secretary Person (LSP), Traditional & Cultural Secretary (TCS) Girls, Secretary Person (GSP), and Sponsorship Secretary Person (SSP).

### Membership Criteria

To become the member of BAS join [bas5buitms@yahoo.com](mailto:bas5buitms@yahoo.com) and fill the registration form.

### Snowfall bonanza in Quetta Valley and BUITMS student's Celebrations

*Report by: Rehan Zafar  
MBA (Regular)-5th semester*

Heavy snowfall was witnessed in the valley of Quetta and some of the northern areas of Balochistan at the end of the month of December, 2004. It was a welcome snowfall after a lapse of many years. The snow started falling at night and continued the next whole day, and turned the entire Quetta Valley white. It was a refreshing experience for the people of Quetta and especially for the students of BUITMS. More than one foot of snow was witnessed in the main city while in the surrounding areas of the city the quantity of snowfall was more than three feet.



*(Heavy Snowfall in Quetta valley)*

The students of both the campuses of BUITMS participated enthusiastically in different celebrations arranged within the campuses on that great event. Specially at Takatu Campus located in the surrounding area of the city, the intensity of snow fall was abundant and the students enjoyed the heavy snow fall by taking snaps, snow fighting and by making a snow man.

The Worthy Vice Chancellor of the University allowed the students to go on a visit to Hana Lake by University Buses. Male and Female students in two separate buses visited the Hana Lake,





where they enjoyed the natural scenery of the Quetta Valley.

The students of the University arranged and participated enthusiastically in the traditional dances of Balochistan such as Attan and Chaap. Infact it was an experience enjoyed once in many years and the students of BUITMS left no chances to make it joyful.

### **Approval of Budget on Tele Communication Lab at Takatu Campus, BUITMS by HEC, DDWP Meeting**

HEC DDWP meeting held on January 18, 2005, approved BUITMS project on "Development of Tele Communication Laboratory" in the Faculty of Computer and Emerging Sciences at Takatu Campus. The project amounts to Rs.18.8 million. It will be very beneficial for providing hands on training to our under graduate and graduate studies of Electronic Engineering and Computer Engineering.

### **New Team Members**

*Prof. Dr.  
Abdul Hussain Shah Bukhari*



Dr. Abdul Hussain Shah Bukhari joined University of Sindh in November 1965 and did Ph.D. at "Moscow State University", USSR in Electronics in March 1972.

He then proceeded Postdoctoral Training at "Institute of Technology", Uppsala University, Sweden during 1976-77 and at "Centre for Robotic Systems in Microelectronics" at University of California Santa Barbara, U.S.A in 1986.

He has the distinction of being a member of the numerous national and important educational, scientific and technological organizations of the country.

Dr. Bukhari was awarded Gold Medal for Academic and Administrative Excellence and Certificate of Excellence by (Governor of Sindh) in Convocation '96 held by University of Sindh.

Dr. Bukhari Joined as a Professor in the "Faculty of Computer and Emerging Sciences" at the "Balochistan University of Information Technology and Management Sciences" on November 01, 2004.

*Dr. Muhammad Ishaq Ghaznavi*



Earned his Master and Doctorate Degree in Geology from southern Illinois University at Carbondale, Illinois, USA with specialization in coal petrography. He is the first Pakistani to have PhD in Coal petrography.

He has served geological survey of Pakistan (GSP) for 36 Years. He has been the director of planning and information at GSP.

He was a member of GSP delegation which studied remote sensing techniques at SIOS Fall, USA and also studied San Andrew's Fault, California USA in 1981. He has the honor of establishing the first Coal petrographic Laboratory in Geological survey of Pakistan, and supervising PhD students. He has also represented the country at many international conferences and seminars.

He has been a member of "The Geological Society of America" and "The society of Organic petrology" of North America. He was also a member of the subcommittee of "Coal Task Force" formulated by the president of Pakistan. He has authored 20 international and national publications.

He joined BUITMS as Director Research Coordination in December 2004.