



## New Team Members

**Professor  
Sultan Mehmood Niazi**  
*Director  
Modern Languages Center,  
BUIITMS*



Prof. Sultan Mehmood Niazi, a prominent teacher in English has vast academic and administrative experience to his credit. After graduate level studies at Govt. College Lahore, he did his Masters in English from University of the Punjab in 1966. He undertook Postgraduate Fellowship studies in teaching of English as a foreign language at the University of Sydney, Australia in 1975. In addition to teaching English Language and Literature at the Intermediate and degree levels, he taught English Literature at Postgraduate level for 10 years. He held various administrative positions including principalship of Intermediate and degree colleges, Joint Directorship of colleges, Managing Directorship of Balochistan Education Foundation and Chairmanship of Balochistan Textbook Board. In 1993, he won the President's Award, Aizaz-e-Fazeelat for the development of high quality instructional material. His services have now been acquired by BUIITMS as Director Languages Center. He is currently writing a book on "The basics of English Syntax".

**Mr. Ali Zaman Shah**  
*Student Affairs Coordinator*



Mr. Ali Zaman Shah did his Masters in Political Science from Govt College Lahore. Now a days he is also doing his M-Phil from Govt College University, Lahore in the same discipline. His main field of research is "Poverty in Balochistan and prospects of its alleviation". Mr. Ali was a debater of National repute during his student life and won many distinctions at the National level. He was declared the champion Urdu debater of Govt College Lahore for the year 1994. He also served Cadet College Mastung as Head of the Pakistan Studies department for seven years. He joined BUIITMS as the Student Affairs Coordinator on July 14<sup>th</sup>, 2004.

**Saaima Nazir Malghani**

*Junior Lecturer, Center of  
Modern Languages, BUIITMS*



Ms. Malghani joined BUIITMS in October, 2004 after serving at The City School, (2003) and Iqra University, Quetta where she taught English and Business/ Managerial Communication respectively. She voluntarily served at GOVT. Girls Degree College for three years (2000-2002) and taught English Literature to post-graduate students. Ms. Malghani has been an excellent student throughout. She received Marker's Gold Medal in Senior Cambridge and got first position in Balochistan in B.A. and first position in M.A. English Literature. Currently she intends to pursue her education and plans to do her Masters in Teaching English as a foreign language and then embark on the task of going for her PhD.

**Dr. Maqsood Ahmad Khan**

*Associate Professor  
Center for Environmental  
Management BUIITMS, Quetta.*



Dr. Maqsood Ahmad Khan, an Engineer by profession, holds a doctorate degree in Irrigation (Water Resources) Engineering

from the University of British Columbia/ Colorado State University, Canada, Master of Science degree in Environmental Engineering from North Carolina State University USA and Bachelor of Science degree in Engineering from University of Agriculture, Faisalabad.

His diverse academic experience in conjunction with over 14 years of international multi-sector field experience includes computer modeling, technical project management, implementation & coordination, budgeting, scheduling, data collection, analysis and interpretation, contract administration, communication with cross functional teams to meet project deadlines, compilation of progress reports, evaluation of budgetary allocations & evaluation, and experience of personnel management. He joined BUIITMS as Associate Professor on October 11, 2004.



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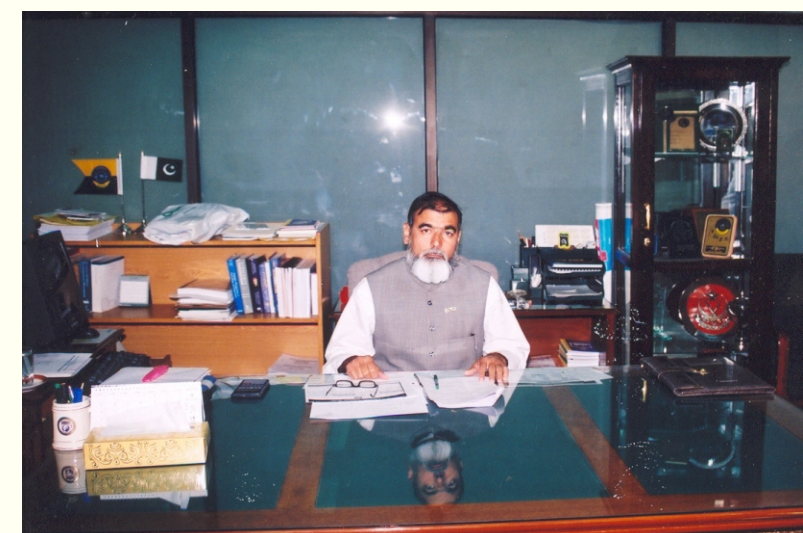
### In this issue...

	P#
1 Ground Breaking Ceremony, Takatu Campus	2
2 All Pakistan Bilingual Declamation Contest	4
3 Progress Report on Takatu Campus, BUIITMS	5
4 Visit by the French Cultural Attaché	6
5 Solar Energy & Silicon Technology	7
6 Training of Trainers Workshop	8
7 Initiation of BS (Petroleum & Gas) Engineering Program	9
8 Initiation of BS (Textile) Engineering Program	9
9 Prize Distribution Ceremony of 1st Sports Week of BUIITMS	10
10 New Team Members	12

# Newsletter

No.011/012

November-December, 2004



## Vice Chancellor's New Year Message

Balochistan University of Information Technology and Management Sciences has already completed two years of its existence with a brilliant track record of performance. All along, the University has been expanding its functions and growing into a reputed seat of education with top class faculty and State of the Art learning environment. This University has opened numerous venues of educational pursuit which were non-existent in Balochistan before. Recently the University has introduced new disciplines and several others are planned for launching in the forthcoming semesters. The Federal and the Provincial governments as well as the Honorable Governor Balochistan, Mr. Owais Ahmed Ghani are fully committed to the development of this University into an Alma Mater of International renown.

When we examine the rapid pace of growth, the advances made so far are no doubt found to be phenomenal. Our mission of developing programs of study based on the philosophy of intellectual stimulation and cutting edge research has started materializing with the consolidation of the material and intellectual resources.

The challenge for the future is to nurture the mechanism of sustaining our efforts by infusing the spirit of never ending quest for knowledge.

I call upon my students to have a realistic assessment of themselves, identify the areas of satisfactory performance as well as the weak spots and make a pledge that they would put in more concerted efforts to leap to the top for the sake of personal development, for the sake of their usefulness to the society and for the sake of the glory of their country.

*I wish all my students and colleagues a very happy and rewarding New Year*





## Editorial

Teaching and related parameters have changed significantly during the last two decades. Now library is not only a bank of carefully categorized and nicely shelved books but is also a fully networked center connected to major libraries in and outside the country. It houses projectors, multimedia, films, tapes, slides and slide projectors. The concept of the laboratory is passing through a revolutionary phase as well. Mathematics, Economics, Sociology, Finance and Accounting, Languages and many other subjects perceived as non-laboratory disciplines now require this facility. Further there are newly emerging sciences like Biotechnology and Informatics that have their own laboratory requirements. The classroom environment has been redefined. Chalks and dusters are no more enough. Overhead projectors, multimedia and internet connectivity have become the need of the day. Even the behavior of the students is going through a significant change. Access to huge amount of knowledge via internet has given them the clarity of thought, insight into new horizons of knowledge and confidence. But all this relates to a part of our urban population. Our rural population has access, if any, to the traditional mode only. We are in fact confronted with a two-fold disparity; firstly the one among educational facilities available to our urban and rural masses and secondly that which exists between our urban facilities and the facilities enjoyed by the people of developed nations. The first disparity must be eliminated so that every one in Pakistan has access to the facilities available to our urban students.

During the first half century of our existence, we as a nation, treated the teaching profession in such a way that teachers started re-evaluating their position and most of them either left for greener pastures or were allured by hefty packages offered by the private sector. The society has redefined its values. Now the teacher is like any other commodity controlled by the market forces rather than being a symbol of guidance.

In this scenario we have to re-determine our priorities. It is heartening to see that some sectors in Pakistan are cognizant of the situation and are striving hard to address the issues stated above. However the gravity of the problem demands a slogan-free, silent but effectively result-oriented, vigilantly monitored and properly funded program at the national level. It is absolutely absurd that part of the world which is progressing at a lightening speed will never accept us at par in any domain including the human rights if we insist on staying in the prevalent status quo of

progress. Things have to change and nature has its own way to thrust its order. We have only to go alongwith it in a compatible manner. Of course it will require a change of attitude, some sacrifice and strong determination. There is no other way!

**Dr. Mohammad Nawaz**

## Ground Breaking Ceremony, Takatu Campus

*Report by: Mohammad Jahanzaib,  
Afraz Ali, Ms (CS)-4*

The ground breaking ceremony of the new campus of BUITMS took place on October 14, 2004. A large number of students from both the campuses and elite from the educational circle attended the ceremony. The Honorable Governor Balochistan, Mr. Owais Ahmed Ghani who is also the Chancellor of Balochistan University of Information Technology & Management Sciences was the chief guest on the occasion.



The Honorable Governor was received by the Vice Chancellor, Dr. Muhammad Abbas Chaudhary and Deans of the four faculties i.e. The Faculty of Computer & Emerging Sciences, Faculty of Management Sciences, Faculty of Biotechnology and Faculty of Textile and Mineral Engineering. Vice Chancellor Sardar Bahadur Khan Women University Quetta, Dr. Shahida Jaffery and the Vice Chancellor, University of Balochistan, Prof. Ghulam Muhammad Taj also graced the occasion.

The chief guest was taken around the campus and he expressed his satisfaction at the pace of development work going on at various places. He laid the foundation stone of the renovation work and prayed for the development of the campus into a prominent seat of learning not only in Balochistan but at the national and international levels as well. He was then



Miss. Sumbal Malik received the gold medal, Miss Basma Ashraf the silver medal and Safa Anjum the bronze medal in 100m race in girls category.

In discus throw Miss Basma Ashraf was honoured with the gold medal, Miss Safa with the silver medal and Hafsa with the bronze medal. Mr. Fazal Bari Controller of examinations distributed the prizes among the winners in girls category.

Mr. Dostain Jamaldini special officer to Vice Chancellor distributed the prizes among the winners of shot putt event in girls category. Miss. Basma Ashraf in this category received the gold medal, Safa Anjum the silver medal and Hafsa the bronze medal. Mr. Mustafa Kamal Director Finance gave away the shield to Mr. Kamran student MS who participated in Higher Education Commission Gymnastic Competition and secured 3<sup>rd</sup> position. Special shields were presented to Mr. Asad Ullah and Shafique Ahmed who participated in the national rifle shooting competition.



Dr. Muhammad Ayaz Khan Mulghani Dean Research/ Director of Bio Informatics gave away the winners and runners-up trophies for Badminton competition to Mr. Imran and Mr. Adnan respectively. In the female category Miss. Basma and Sumbal were awarded trophies and runners-up award certificates. In the best organizers category shields were presented to Mr. Nauman Saleem and Mr. Ahsan Achackzai (Research Associate).

Dr. Zafar Yab Dean Management Sciences gave away trophies to Mr. Waqar Khalid and Raziq Sunjrani in connection with table tennis. Mr. Bebarak and Jamal Wahid who were runners up were awarded certificates. In best organizer category Mr. Shoujaat Ali was also awarded shield. In the girls category of table tennis, Miss. Beenish and Miss. Safa were awarded winner trophies whereas Miss. Basma and Miss. Sumbal were awarded runners up trophies.

Dr. Sabir Hussain Usmani Dean Faculty of Computer

and Emerging Sciences distributed prizes among the participants of the squash competition. Mr. Azam Baloch, Registrar BUITMS distributed prizes amongst volleyball players. Winner's trophy was received by BSCS 2<sup>nd</sup> Semester and runners up trophy by MBA regular. Mr. Ghulam Rasool MBA regular received the best organizer trophy for volleyball matches.



The Worthy Vice Chancellor Dr. Muhammad Abbas Choudhary distributed prizes among the players of Cricket Matches. The Winner Team BSBA (2<sup>nd</sup> semester) was awarded trophy, and 12 members of the team were given certificates. The man of the match trophy was given to Shahbaz Ali and man of the series trophy was given to Amir MBA (Reg). The best batsman trophy was given to Adil BBA and best bowler trophy was given to Amir MBA. The runner up trophy was given to MBA, the best umpire certificate was given to Usman Farooq and best organizer certificate was given to Ikram Ullah Khan. The Worthy Vice Chancellor also distributed medals and shields among the players of football tournament.

At the end of the ceremony the Worthy Vice Chancellor appreciated the organizers and all the students who actively participated in sports events. He appreciated the efforts of the Deputy Registrar Syed Irfan Ahmed Shah, Sports officer Masood Ahmad Kasi, Superintendent Kadim Kakar and all other employees who played a positive role in organizing the first sports week of BUITMS.





Laboratories and Libraries in the already existing textile mill infrastructure at Takatu Campus. Based on the above express need and urgency Faculty of Engineering & Applied Sciences started the 4-year BS (Textile Engineering) program in Fall 2004 semester with the consent and approval of the Vice Chancellor BUITMS. The syllabi and course outlines are being worked out in line with the recommendations of the National Committee for Revised Curriculum (NCRC) of Higher Education Commission (HEC) for consideration of the Board of Studies and the Academic Council. The Board of Studies has already been constituted and its meeting is scheduled to be held in the later part of December 2004.

### Prize Distribution Ceremony of 1st Sports Week of BUITMS

*Report By: Maryam Butt  
Assistant Controller Examination*

**“A Healthy Mind Can Only Be Found in a Healthy Body”**, address of Vice Chancellor on the conclusion of sports week of BUITMS. The importance of sports in living a healthy life cannot be over emphasized. Only a healthy body and a healthy mind can contribute appreciably in leading a successful life. These remarks were given by Dr. Muhammad Abbas Choudhary Vice Chancellor BUITMS on the occasion of the distribution of the prizes at the end of the sports week of the university.

Events like Athletics (100m, 200m, 400m, and 800m), Shot Putt, Javelin Throw, Discus Throw, Badminton, Table Tennis, Volley Ball, Cricket and Football were organized during the sports week. All the boys and girl students of the university very actively took part in the events. This event was unique in the sense that it was the first sports week of the university.

Special arrangements were made for the distribution of prizes at the end of the sports week for which Director Sports/ Deputy Registrar Irfan Ahmed, Sports Officer Masood Ahmed Kasi, Superintendent Students Affairs Kadim Kakar put in commendable efforts. Seating arrangements for almost one thousand persons were made. Moreover, the stage was decorated by placing cups, shields and medals on it. Major General Mohsin Kamal was to grace the occasion as Chief Guest but due to unavoidable reasons and exigencies of service he couldn't do so. Student Mr. Zulfiqar Musthaq (BSBA) performed the duties of nazamat.

Formal opening of the function was done with the recitation of verses from the Holy Quran by Hafiz Zaheer, a student of BS (Bioinformatics).



Mr. Rehman Mehmood Butt student BS (CS) had the honour of reciting Naat of the Holy Prophet (P.B.U.H).

Dr. Muhammad Nawaz, Chairman Faculty of Computer & Emerging Sciences distributed the prizes among the winners. Mr. Taimour student (MBA) received the gold medal, Mr. Haseeb student (BSCE) received the silver medal whereas Mr. Abdul Qahir student (BSBA) received the Bronze medal in 100m race.



Mr. Taimour student (MBA) received the gold medal, Mr. Abdul Qahir student (BSBA) received the silver medal and Mr. Marjan student (BSCE) received the bronze medal in 200m race. In 400m race the gold medal was received by Mr. Taimour, the silver medal by Mr. Asghar and the bronze medal by Mr. Marjan. In 800m race the gold medal went to Taimour, the silver medal to Marjan and the bronze medal to Fawaz Ahmed.

Mr. Zulfiqar Khetran received the gold medal, Mr. Marjan the silver and Mr. Fareed Kasi the bronze medal in discus throw. In shot putt the gold medal was clinched by Mr. Fareed Kasi, the silver medal by Naseeb Ullah Kasi and the bronze medal by Marjan. Mr. Naseeb Ullah Kasi had the honour of receiving the gold medal, Mr. Zafar the silver medal and Mr. Zahoor Ahmed the bronze medal in javelin throw. All these prominent players were given prizes by Dr. Azam Tahir Chairman faculty of Management Sciences.



taken to the ceremonial shamiana in the form of a procession.



The proceedings started with the recitation of verses from the Holy Quran and Naat of the Holy Prophet (Peace Be upon Him). Miss Raffia Usmani a student of MSCS-5 had the Honor of reciting verses from the Holy Quran while Mr. Afraz Ali a student of MSCS-4 got the privilege of reciting the Naat.

Dr. Muhammad Abbas Chaudhary, Vice Chancellor BUITMS in his welcome address gave a detailed briefing on the various study programs introduced at the University and the aspects of the construction work as well as the installation of the latest equipment on the campus. He particularly mentioned the efforts undertaken to change the outlook of the youth from mere attainment of a degree to the acquisition of real and lasting knowledge. He expressed gratitude at the patronizing attitude and financial support



accorded to the University on the part of the government of Balochistan, the Honorable Governor and the Higher Education Commission. He informed the audience that after the consolidation of the Management Sciences Campus

in Jinnah Town, the start of the classes at the Takatu Campus was a major leap towards the fulfillment of the promise of providing top quality education in Balochistan. He expressed the hope that a day would come shortly when BUITMS would be counted among the prime institutions of the world and the standard of education provided to the students would be comparable to the standards of Harvard and Berkley. The Vice Chancellor pointed out that 79 students were already registered for Doctorate courses in the disciplines of Mathematics, Biotechnology and Management Sciences. He also talked about the 3<sup>rd</sup> campus of BUITMS at Hazarganji where the agriculture Sciences and Biotech faculties as well as the faculty of Social Sciences would be located on the completion of the physical infrastructure. He stated that in future arrangements would be expanded further for the accommodation of about 25,00 students in the various disciplines. He expressed his gratitude to the Pakistan Railways for consenting to run an Education Express from Saraib to Baleli to transport students from various parts of Quetta.

The Honorable Governor Balochistan, Mr. Owais Ahmed Ghani eulogized the Vice Chancellor and his staff on the rapid progress made in the development of the basic physical facilities and for ensuring the start of educational activities at the two campuses on modern lines.



The Honorable Governor stressed upon the fact that Balochistan was on the threshold of assuming a position of vital importance in the world affairs. The opening of the Gawadar deep seaport and the road link from Gawadar to ECO states would naturally shift the focus to Balochistan, opening innumerable opportunities for the youth. BUITMS would be the obvious source from where capable, competent and well educated manpower would be available. He stressed upon the students of BUITMS to realize the





importance of such opportunity and to equip themselves with as much knowledge as possible. He hoped that the students of BUITMS would justify their enrolment at this prime institution by working whole heartedly and by coming up to the standards. He reiterated his determination in extending all out support and cooperation in the fulfillment of this noble cause. He exhorted the students in their efforts to build up spirit, courage and steadfastness in their approach to life in order to ensure a bright future for themselves and for their country.



Mr. Rehman, a student of BSCS-5 who shouldered the responsibilities of the stage secretary commendably well announced the end of the program and invited the guests to share a cup of tea with the organizers. On the whole the Ground Breaking Ceremony was really a memorable function for which the organizers deserve to be commended.

### All Pakistan Bilingual Declamation Contest

**Report By:** Mr. Ali Zaman Shah  
Students Affairs Coordinator

The first All Pakistan Bilingual Declamation Contest was held at BUITMS at 1800 hrs on September 9, 2004. Justice Raja Fayyaz Ahmed, Honorable Chief Justice of Balochistan High Court was the Chief Guest. It was the first mega event of the Students Affairs Office, in which many institutions participated from all over Pakistan. The prestigious jury comprised Dr. Zafar Yab, Prof. Fazal Bari, Prof. S.G. Shabbir and Maj. Akhtar Khalily. The topics for the contest were, 'It is for my motherland', 'Merits of unmarried life', 'Madad chahti hai yeh Hawa ki beti', and 'Aisa bhi hota hai'. The students performed brilliantly and showed great zeal and zest. They started various thought provoking ideas and spoke intensely on women rights.



The humorous topics won roars of laughter and great applause from the audience. According to the results, Pakistan Marine Academy won the BUITMS Declamation Trophy. Cadet Mujtaba Bangash from Cadet College Mastung was declared to be the best debater in English, while Cadet Asheer Khalid from Pakistan Marine Academy was declared to be the best in Urdu contest.

In Urdu, the second position went to Mr. Javeria of the University of Balochistan and the third position went to Mr. Kamal Munir of The Pearl Institute, Quetta.



In English the second position went to Cadet Ahmed Haroon of Cadet College, Larkana and third position went to Ms. Maria Zulfiqar of The Pearl Institute, Quetta. The declamation contest was followed by dinner and it lasted up till 2230 hrs. Altogether it was an excellent effort on the part of Students Affairs Office to have arranged such a mega event.



### Faculty of Engineering & Applied Sciences

#### Initiation of BS (Petroleum & Gas) Engineering Program

**Report by:** Prof. Dr. Syed Abid Hussain



Balochistan University of information Technology and Management Sciences (BUI-TMS) is playing a major role in improving the standard of education and is considered to be a pioneer of imparting quality education and initiating industry oriented programs at national level in this province.

During Fall 2004, The Faculty of Engineering & Applied Sciences of BUITMS launched a four year BS Degree Program in Petroleum and Gas Engineering in the province of Balochistan, keeping in view its vast potential of oil and gas and large number of Petroleum Engineers required for intensive exploration of oil and gas reserves.

About 45 students are currently attending the classes of this degree program to serve after graduation, the oil and gas industry consisting of about thirty multinational and national companies of Pakistan. The most prolific geological basin for Petroleum exploration is in Balochistan with a lot of future prospects for oil and gas explorations.

The main objective of Petroleum & Gas Engineering Department is to produce Graduate Petroleum Engineers, capable of accepting the modern day challenges of Petroleum & Gas Industry of Pakistan, and Balochistan in particular.

The department is headed by a highly qualified Doctorate degree holder and is currently managed by two competent faculty members. The Department will grow with the intake of more regular and visiting teachers in the coming semesters according to the requirements of the courses going to be offered each

semester.

The Faculty is looking forward to achieving new standards of excellence for the entire program spread over eight semesters (4 years) by establishing modern laboratories and libraries.

Based on the above expressed need and potential, the Faculty of Engineering & Applied Sciences started the 4 year BS (Petroleum & Gas Engineering) program in Fall 2004 semester with the consent and approval of The Vice Chancellor. The syllabi and course outlines are being worked out in line with recommendations of the National Committee for Revised Curriculum (NCRC) of HEC for the consideration of the Board of Studies and the Academic Council. The Board of Studies has already been constituted and its meeting is planned to be held in the later part of December 2004.

### Faculty of Engineering & Applied Sciences

#### Initiation of BS (Textile) Engineering Program

**Report by:** Prof. Dr. Syed Abid Hussain

Balochistan University of Information Technology & Management Sciences (BUI-TMS) for the first time launched BS Textile Engineering program in Fall 2004 semester at Takatu campus formerly known as Bolan Textile Mill which is a composite unit consisting of all types of machinery from Fiber to Fabric stages.

This program is being implemented with a high spirit of devotion and social responsibility towards a prosperous textile industry in Pakistan.

About 29 students are currently attending the classes of this degree program to serve after graduation in the textile industry of Pakistan particularly the area of HUB, District Lesbela which caters about 29 functional textile units. Another future place for prospective textile industry is to be Gawadar Free Zone.

The main objective of BS (Textile Engineering) program is to produce graduate engineers capable of accepting modern day challenges of textile industry of Pakistan.

The department is currently managed by three competent faculty members. The department will grow with the intake of more regular and visiting faculty members for upcoming semesters according to the requirements of the courses planned for future semesters.

Faculty is making all out efforts to achieve new standards of excellence of entire program comprising 8 semesters (4-year) by establishing more modern





facets of our socio-economic life; a few of them are power generation (Domestic & Commercial), rural electrification (remote houses, mountain shelters etc). Lighting (Domestic & Commercial), cathodic protection (Bridges, Gas & oil well heads, gas, oil and water pipelines)

The province of Balochistan is unique in its geo-political significance. It consists of huge mountain ranges. The availability of basic commodities of life in far flung areas is scarce. Most of the remote areas of Balochistan are still deprived of the basic necessities like electricity, gas and water.

The introduction of the silicon technology can help our province in the following ways:

1. Parts of Balochistan are extremely cold in winter when the temperature falls below the freezing point in winters. In such weather the non-availability of Gas causes a great deal of difficulty. Therefore, using this technology heat energy can be produced and thus the gas can be supplied to remote areas also at lower cost.

2. Electric supply in the rural areas of the province can be made possible through this technology. This method will not only improve the electric transmission but will also reduce pressure on the urban grid stations.

This technology might seem to be a dream to our province but if proper and organized research is performed these problems can be overcome. Through media coverage the importance of this technology can be enhanced. During my training at the PTV academy Islamabad, I worked on a documentary movie signifying the importance of this technology in our province. Government should give more incentives in this regard and more work should be done through media to orient people in this new technology.

## Training of Trainers Workshop

*Report by: Mr. Muhammad Nadeem*

A three days workshop on the subject of "Training of Trainers" was held from October 5-7, 2004 at Serena Hotel, Quetta under the auspices of the British Council, Karachi. The province of Balochistan is currently engaged in the struggle of coming out of the morass created by the repatriation of the educationists to their parent provinces in 1970, leaving a vast gulf between the needs of the province and the available teaching force, when the province of Balochistan became a separate administrative unit of the country. The province is still faced with the problem of producing adequately capable human resources. There is dire need to groom up the native youth into human resource well equipped to shoulder the

responsibilities of training the new entrants in various fields of practical life.



It was a timely step on the part of the British Council, Karachi that they arranged the "Training of Trainers" workshop in Balochistan in order to prepare a body of well informed and qualified people who would further disseminate the modern methodology of providing training about the needs and approaches of training.

The workshop focused on designing the training program, the conduct of the training programs, and evaluation of the training course and the ways and means of making the trainings more effective. The entire exercise proved to be highly informative.

Mr. Wali Zahid, head of the training programs at the British Council, Karachi was the main resource person for the workshop. With his specified study in the field of Conflict Analysis, supported by 15 years experience of conducting training courses at various institutions like IBA Karachi, International Islamic University, Islamabad and many other renowned institutions make him a much sought after resource person in the field. He very kindly conceded to the request of BUITMS faculty and paid a visit to the Takatu campus on October 8, 2004 with the purpose of sharing his views with all the faculty members of the Computer & Emerging Sciences Department. He talked about motivation and efficient utilization of the available resources with the object of achieving the optimum output. The session was held in the newly established computer lab of the Takatu campus, followed by an open discussion session over a cup of tea.

Dr. Muhammad Nawaz, Chairman Faculty of Computer & Emerging Sciences welcomed the worthy guest, while Dr. Sabir Hussain Usmani, Dean Faculty of Computer & Emerging Sciences offered a vote of thanks.



## Progress Report on Takatu Campus, BUITMS

*Report By: Dr. Sabir Hussain Usmani*  
(Dean Faculty of Computer & Emerging Sciences)

Balochistan University of Information Technology & Management Sciences has completed two years of its commitment to develop and sustain an environment conducive to excellence in learning, teaching, research and dissemination of knowledge. BUITMS is now operating with two campuses known as the City Campus and the Takatu Campus. The building of Bolan Textile Mill was handed over to BUITMS on June 11, 2004 by the Honorable Governor Balochistan Mr. Owais Ahmed Ghani, Mr. Liaqat Ali Jatoi Federal Minister for Industries and Jam Mohammad Yousaf Chief Minister of Balochistan, is now in full operation. Takatu Campus has now about 700 students acquiring education in Computer Science, Computer Engineering, Petroleum & Gas Engineering and Textile Engineering.



As far as the academic activities of Takatu Campus are concerned, both the faculties (The Faculty of Computer & Emerging Sciences and The Faculty of Eng & Applied Sciences) successfully conducted the mid-term examinations from 22<sup>nd</sup> to 29<sup>th</sup> November and are now heading towards the final examinations on January 30<sup>th</sup>, 2004. This is the first semester which is about to complete at this new campus of BUITMS. The students are getting a healthy environment and all the facilities which are conducive to learning in the new Campus. Takatu campus is about 12 km away from the main city, so the University has started a train service which takes the students from the city to the campus in convenient time. Besides the train the University buses are playing a great role in taking the students from the city to the Takatu Campus and then taking students back to city according to the scheduled timing.

The Faculty at Takatu campus is highly educated and has teaching experience in some of the major Universities of Pakistan. Similarly the academia and administration of Takatu Campus is highly grateful to the experts from renowned institutions for coming to the campus as visiting faculty. Dr. Sabir Hussain Usmani, Dean Faculty of Computer & Emerging Sciences & Dr. Mohammad Nawaz, Chairman Faculty of Computer & Emerging Sciences are managing the department at Takatu Campus. Similarly, Prof. Dr. Syed Abid Hussain is the Dean Faculty of Engg & Applied Sciences and Chairman Petroleum & Gas Engg at this new campus.



In addition to the academic activities the construction activities are in full swing. The campus has a separate residential area and a makeshift arrangement of hostel for 120 students and faculty members from other cities.

One of the achievements of the operational activities at the campus is the start of a new tube well in the campus premises on December 2<sup>nd</sup>, 2004. The tube well will fulfil the needs of water of Takatu Campus and its residential area.



Takatu Campus has a state of the art Computer Lab, which is interlinked by a wireless network. The lab is fully air- conditioned and has a very neat and clean healthy environment. The lab and class rooms have





the Multimedia & Projectors support for lectures and lab demonstration. The canteen of the campus is under construction and is expected to start soon. The University is trying to provide all the necessary facilities in the canteen so that it can fulfil the requirements of students and faculty of the campus.



Both Takatu and City Campuses are playing a major role in providing quality education in the province of Balochistan. The University will be one of the leading Universities of Pakistan on account of its highly specialized faculty, brilliant students, and experienced administrative staff, cooperation of the parents and support of the Government of Balochistan under the guidance and vision of Chancellor Mr. Owais Ahmed Ghani and Vice Chancellor Mr. Muhammad Abbas Chaudhary.

## Visit by the French Cultural Attaché

*Report by: Afsheen Nighat  
PRO, Media Management*

Mr. Joel Raffier, Cultural Attaché French Embassy, Islamabad and Ms. Ouafae Sananes Charge De Mission and Project Director called on the Vice Chancellor, BUITMS, Dr. Muhammad Abbas Chaudhary. They were accompanied by Mr. Abdullah Baloch, Director Balochistan Cultural Center. The object of the visit was to explore the prospects of starting an online program for teaching the French Language in Balochistan. The Vice Chancellor gave a detailed briefing about the existing and future facilities at the Balochistan University of Information Technology and Management Sciences, Quetta and talked about the development of the University into a prime institution spread over three campuses within a short span of two years.



The Jinnah Town Campus, presently houses the administration block and the faculty of Management Sciences, while classes in Computer & Emerging Sciences, Petroleum & Mining Engineering and Textile Engineering started functioning at the Takatu Campus in fall semester, 2004. The Chiltan Hazarganji campus is envisaged to accommodate the Faculties of Bio-Technology and Social Sciences. The enrolment of students at BUITMS has already exceeded 1500. Dr. Muhammad Abbas Chaudhary informed the Honorable Cultural Attaché that a Modern Languages Centre has just been established at the Jinnah Town Campus under the supervision of an experienced teacher of English Language, Prof. Sultan Mehmood Niazi and there should not be any hitch in the commencement of online French Classes, because the students would need to use the internet for learning the French Language and the University has to take up the responsibilities for registration of students, collection of dues and provision of Lab Facilities to those registered students who do not have the internet facility at home.



Dr. Muhammad Abbas Chaudhary asserted that students and teachers exchange programs need to be undertaken in the educational interests of Pakistan and France. He hoped that French Online would just be the herald for continued cooperation between our two countries in the years to come.



## Solar Energy & Silicon Technology

*Report By: Masroor Alam Khan  
Media Manager, BUITMS*



The sun is the source of all non-nuclear energy used on our planet. Solar energy is a great gift of nature. It has two advantages; one is the generation of energy and second is the production of light.

Pakistan is located in the solar zone and is one of those blessed regions which are rich in solar energy. It is a great asset especially for the under developed nations like Pakistan.

In recent years great advancements have been made in the field of solar energy consumption but despite these efforts, a scarcity prevails in the big cities of the country.

Actually, the problem of scarcity of solar energy consumption is more in 70% of the rural sites than in the cities, because the electricity supply to rural areas from the grid station is a tedious and high cost task. This is the main reason that about 30,000 remote and rural settlements still lack electricity.

It would therefore be possible and easy to transmit and supply electricity through solar energy. Solar electricity has many advantages over electricity generated through other means. There is no smoke or pollution, no danger of radioactivity, and the fuel is free and available everywhere. A major demonstrated potential source of renewable electric power is silicon photovoltaic solar cell.

Silicon is the only proven material for terrestrial solar cells. Silicon is also used for the manufacturing of silicon chips that are used in electronic circuits of computers, televisions, transistor radios etc.

In order to acquire a foothold in the areas of this technology a research and development center known as National Institute of Silicon Technology has been setup in Islamabad since April, 1981.

## Process of Solar Cell Production Through Silicon Technology

The solar cell is produced after passing through several scientific steps. The process of silicon technology is as under:

**1. Crystal Growth:** Let's study the production of single silicon crystal. The crystal growth machine consists of huge furnaces in which pure silicon is converted to crystals at 1400°C. The size of crystals grown through these furnaces is 6.

**2. Wafer Cutting:** The Silicon Crystal grown is then thinly sliced. These slices are called Silicon Wafers. The thickness of a silicon crystal is about ½ mm or 1/50<sup>th</sup> of an inch.

**3. Solar Cell Production:** These solar wafers after several scientific processes are converted into solar cells. When these cells are exposed to light radiation, negative and positive charges are generated. At the junction of the cell these charges are neutralized & electric power is produced.

**4. Screen Printing:** For electric power generation the cell is covered with metallic circuitry. This is done through the screen printing machine. It is important to connect this metallic circuit to two specified parts of the cell.

**5. Solder Fountain:** After processing the cell in the screen printing machine, the cell is thickly soldered at a specified point.

**6. AR Coating:** At this stage several experiments are performed on the cell. When the cell is exposed to the light beam most of the light rays are reflected. Therefore, the cell is coated with a thin solid layer that absorbs some of the light. The cell is now ready after several processes.

**7. Cell Testing:** After the solar cells are ready they are tested for their power generation capacity. For this testing simulators are used. These simulators generate light equivalent to sunlight.

**8. Tabbing and lamination:** This phase deals with combining the solar cells. The process of combining the cell is Tabbing. After combining the cells are transformed to modules. This process is called Lamination. Using the module transformation machine the effects of weather are checked. As this is a complex scientific process, these experiments are important.

**9. Outdoor Testing:** These modules are also tested using Sunlight so that the electricity generation capability can be checked. These modules are then transformed in the form of a pencil.

These cells are then used in TV, radio, fans, tube lights, solar helicopters cycles etc.

The activities of The National Institute of Silicon Technology are likely to revolutionize almost all the