## COMPUTER LTERAGY PROGRAM

Empowering Underprivileged Youths in Bangladesh through Computer Literacy

## CLP Remembers Durin

On this day of the annual fundraising dinner event we all miss Durin, a very familiar face with a big smile. Mrs. Sabina Ahmed (Durin), wife of Dr. Mosleh- Uddin Ahmed and a dedicated CLP volunteer is no longer with us (Inna lillahi wa inna ilayhi raji'oon). She passed away in the evening of December 23rd leaving behind her husband Dr. MoslehUddin Ahmed, their daughter Taskin, mother Mrs. Hasina Kabir (Banu), brother Shafiqul Alam (Labu) and a host of friends and admirers to mourn her death.

Durin was a warm, friendly and vibrant person who was always ready to help others. As an active CLP volunteer she made valuable suggestions and assumed responsibilities
 eagerly. She took the leadership in organizing the CLP Fund Raising dinners every year. She impressed all of us through her meticulous planning, attention to
details, selfless hard work, and flawless execution. She pulled off this enormous task, year after year, with grace and deceptive ease.

Durin always had a positive attitude towards life. During the time that she had been fighting the deadly disease, she remained joyful and full of courage and continued to surprise her friends by attending community events. In spite of the discomfort and pain from her physical illness, she
 always greeted others with a smile. Durin's pleasant personality made her immensely popular in the community. Mourners poured in such a great number to the mosque where her janaja prayer was held that the mosque had to conduct two prayers. Afterwards, Imam Chebli commented that we all should be doing what Durin must have done to gain love of so many.

Durin has left us, but her spirit endures, and we all draw inspiration from her ever readiness to help others, her lust for life, and her positive attitude in the face of adversity. May her soul rest in eternal peace, and may the healing effect of time help her family bear this misfortune with the grace that she always embodied.

## Computer $\mathcal{L i t e r a c y}$ Program

## Volunteers Association for Bangladesh - New Jersey Chapter (VAB-NJ)



Computer Literacy Program (CLPP) enters sixth year of operation in 2010. With your hetp and support the program has made quite a few accomplishments so far. Through June 2010, we have esta6fished 114 Computer Literacy Centers (CLCs) and 37 associate CLCs in rural areas of 51 zillas in Bangladesh. As of April 2010, 29,787 students received computer literacy training in these centers under the tutelage of 272 teachers (including 45 female teachers) trained by the program. The training cost per student now stands at $\$ 13$, which is expected to get further reduced as more students are trained using the established facilities and resources. We consider this to be an outstanding return on investment in human resource! We are happy to share with you that CLPP is getting recognized at home and abroad, the latest 6eing winning the Manthan Award South Asia 2009 in the e-education category.
In 2010, CLP has taken an important first step towards adding e-education to its core program which may produce far reaching impact on education in Bangladesh. The long-term goal of this effort is to take advantage of the advances in information and communication technology to transform the way students are taught today. An important step is to establish "Smart Class Rooms" (SCRs), that will leverage on the computer resources of the CLCs and will be fitted with Carge screen monitors so that the entire class can participate. In a SCR students will have the opportunity to learn using interactive educational CDs and world-wide web via Internet (where availa6le). Initial focus will be on teaching of English, Science and Geometry.
The starting point for this e-education effort has been the Computer Teaches Everyday English (CTEE) project that we undertook in 2008. An interactive CD was developed for students to use it for learning proper pronunciation and practice speaking in English. CTEE was introduced as a pilot program in 5 schools with CLCs. A Cocally-developed CD for geometry and another for science were identified. These three CDs are now being used in a SCR at one of the CLCs on an experimental basis.
$\mathcal{H}$ owever, a much Carger sample set is needed even to explore the efficacy of such an initiative. Together with
 support the establishment of 100 CLCs and 100 SCRs. Assuming that the Government supports the proposal, we will need your support for this public-private partnership project to take off.
The introduction of SCRs and e-education is a natural direction of growth for $C \mathcal{L P}$, as we remain committed to our mission of empowering underprivileged students in Bangladesh. However, we realized that we can get far more out of the computing resources we are providing. With thought provoking graphics, sound and real-time participation by students, we befieve the computers in CLCs can give rural class rooms, suffering from inadequacy of equipment, instructional materials and good teachers, a much needed boost.

We are excited about this new initiative and look forward to your support in the form of sponsorship of a combined CLC and SCR, sponsorship of a SCR in an existing CLC, or providing funds for other
 program activities.

We dream to build a knowledge-based society in Bangladesh. Come, dream with us.
From virtual to real, through computers to prosperity, we will empower the underprivileged youths of Bangladesh to enter the realm of hope by crossing the digital divide

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# Program Schedule 

VAB-CLP Fundraising Event
Saturday, Juty 17, 2010
Rutgers Cook_Campus Center, 59 Bieß Road, $\mathcal{N}$ ew Brunswick, $\mathcal{N} J$
5:30 Guest Arrival, Registration, Snacks
6:00-7:05 Introduction and Guest Speeches
6:00-6:05 National Anthems, USA \& Bangladesh
6:05-6:15 Welcome and IntroductionCLP introductory video (3 minutes)
6:20-7:05 Guest Speakers:

- NJ Assemblywoman Linda Greenstein
- Mr. Matilal Pal, Volunteers Association for Bangladesh (VAB)
- Mr. Kamal Lohani, Director General, Shilpokala Academy of Bangladesh7:10-7:50 Computer Literacy Initiatives
- e-education video (3 minutes)
- Smart Class Room
- Where did Your Donations Go?
- Smart Class Room Skit
8:00-8:15 Inspiring Stories
- Helping Bangladesh by Dr. Shahid Aziz
- Empowering Green Environment Initiatives by Nasir Uddin
8:20-9:10 Dinner (Children's Dinner at 8:00 PM in Marle V. Adams Room)
9:15-9:35 High School Graduates Appreciation
9:40-10:00 Visit a Computer Literacy Center
10:05-10:10 Concluding Comments
10:15-11:00 Musical Soiree - Zafrin Oni
11:05-11:15 Social and Departure


Zafrin Oni has started her singing lessons since she was 4 years old. Her initial lessons were from Sangeet Bhavan and learning from various teachers. Upon her coming to the US in 1995, she joined the group called Udichi Shilpi Goshthi and started her singing career in the US. Starting 1997, zafrin Oni started her venture as a solo artist performing live in all the prestigious shows held in $\mathcal{N Y}$ and other states, as well as Canada. She has worked in various mixed alfums such as Maya 1, Maya 2, Re-evolution, Dilki Doya Hoyna, Aď̌o Megh, etc with renowned music directors like Fuad and Rajib. She has also performed in $\mathcal{N T V}$, ATM Bangla, Channel I, and various other established TV channels. Zafrin Oni was one of the fortunate ones to get an opportunity to sing duets live on stage with the legendary singer M1. Manna Dey for 3 years in a row (2004, 2005, and 2006) in many different states in US and Canada. Zafrin Oni has also received Dhallywood Award in 2008 for outstanding performance in singing.


Arch. Yeafesh Osman<br>State Minister

Ministry of Science and Information
\& Communication Technology
Govt. of the People's Republic of Bangladesh

## Message

It is my great pleasure to extend warm greetings to all those gathered for fund raising event for the Computer Literacy Program for the underprivileged youths in Bangladesh. The Computer Literacy Program is designed to promote computer use and knowledge gathering among the underprivileged youths in Bangladesh.
Bangladesh government is committed to create 'Digital Bangladesh' under which the government is planning to spread IT education and internet connectivity in the rural areas with the vision to incorporate marginal people into the main stream of information and communication technology (ICT). I am happy to observe that VAB New Jersey has already extended its effort in this mission by providing quality IT education through its Computer Literacy Program (CLP). I am pleased to notice that under this initiative 115 Computer Learning Centers (CLC) are operational across the country.

On behalf of the Government of Bangladesh, I commend all volunteers of the Volunteers Association of Bangladesh for your hard work and dedication to helping others. Your efforts will undoubtedly touch and improve countless lives. Best hopes for a successful and memorable event. We rely on concerned friends of Bangladesh such as you as the Bangladesh Government works to better educate our children in ICT, create jobs, and protect our environment.
With all good wishes,


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"It is my privilege to congratulate and commend the efforts of the Volunteers Association for Bangladesh, $\mathcal{N}$ ew Jersey Chapter ( $V \mathcal{A} \mathcal{B}-\mathcal{N J}$ ) for its worthwhile efforts in support of the Computer Literacy Program to benefit Bangladesh youths in need, through promoting computer and internet usage, providing quality education via this tool, thus, equipping them with technology Citeracy for future success."

## Linda Greenstein

New Jersey Assemblywoman

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# Computer Literacy Program: First Five Years of Progress 

## Zafar Billah and Farrukh Mohsen

## Manthan Award



The Computer Literacy Program (CLP) was recognized as the best "e-learning" program in Southeast Asia and was bestowed the "Manthan Award Southeast Asia 2009" at a ceremony held in Delhi, December 18-19, 2009. The Manthan Award is conferred every year by "Digital Empowerment Foundation", a Delhi-based non-profit organization, in collaboration with IT Department of the Government. of India and a number of non-government organizations. Participants in this competition are the SEARC countries (India, Pakistan, Bangladesh, Nepal, Sri Lanka, Bhutan and the Maldives).

## How CLP Started

The rapid evolution of Information Technology (IT) has made a positive impact in social and economic improvements in the present world. In advanced countries, computer has now become a permanent companion and a necessary medium in education. In Bangladesh, computer and IT education is far short from the need of the country. The lack is especially acute in rural areas. Consequently, in the competition of entering the workplace after graduation, the children from the villages are falling further behind. The government is trying to redress this disparity but that effort is outweighed by the need. This is why, private initiatives are so important alongside that of the government's. Realizing the dire consequences of allowing this disparity to grow, a group of expatriate Bangladeshis in New Jersey launched CLP towards the end of 2004. Realizing that for non-residents it is virtually impossible to
 direct day to day activities in Bangladesh, the group enlisted the collaboration of D.Net (www.dnet.org.bd), a premier non-profit organization devoted to spreading of computer and IT education in Bangladesh. Around the same time the group learned about the educational activities of Volunteers Association for Bangladesh (VAB), USA (www.vabonline.org). With the objective of elevating the standard of education in rural Bangladesh, VAB has been improving infrastructure, providing scholarships to underprivileged students in Bangladesh, and helping to train teachers since 1998. The similarity of the objectives prompted the CLP group to form an affiliation with VAB and organized as the New Jersey Chapter of VAB (VAB-NJ).

The goal of the CLP is to promote the knowledge and usage of computers and information technology among the underprivileged youths in Bangladesh. VAB-NJ fosters computer literacy by making personal computers and basic computer training accessible to needy youngsters in Bangladesh. The
mechanism involves establishing computer literacy center (CLCs) in chosen educational or community institutions.

CLP is organized as a coordinated tripartite initiative between VAB-NJ, D.Net, and local school management. VAB-NJ provides vision and financial support for program implementation; D.Net provides partial financial support, develops curriculum, manages teacher training, establishes and maintains computer labs, and monitors program performance; and the school management provides the space and pays for the electricity for the lab. Under the CLP initiative, computer literacy centers (CLCs) are established at educational institutions primarily in underprivileged rural areas. Each CLC is equipped with a minimum four computers, a printer and peripheral equipment. Students are guided through a hands-on curriculum developed specifically for the program by experts in the field. Prior to establishment of a center, two competent and enterprising teachers receive a comprehensive two-week long training in Dhaka on all aspects of the curriculum. Students in a batch of eight receive 40 hours of hands-on training in basic computer operation, and Microsoft Word, Excel spreadsheet, and Paint programs, as well as, the use of internet (for centers with Internet connection; over $60 \%$ of the centers are connected with the Internet). A help guide "Esho Computer Shikhi" has been published in Bengali that describes the subject matter for the entire curriculum in easy steps. Each student is provided with a copy of the guide at a nominal cost.

## Progress Statistics

The accomplishments of the CLP as of June 2010 are summarized in the boxes and the bar graph below.


## Beyond CLP

Inspired by the successes to date, the VAB-NJ volunteers and their patrons are continually evaluating newer initiatives that leverage on the resources of the CLCs. One such endeavor is the "Computer Teaches Everyday English (CTEE)". The aim of the program is to teach students conversational English with correct pronunciations. In 2009, this program was launched at five schools on a pilot basis. A compact disc (CD) that uses familiar settings and draws on students' day-to-day experiences was developed for this program. The CD teaches the students English words and sentences using visual and audio cues. Specially trained teachers help the students learn correct English through pictures, sounds and speech articulation. A closely monitored survey at these five schools indicates that students trained under the CTEE program are learning English better and faster. VAB-NJ intends to extend CTEE on a much broader scale. Looking further ahead, plans are there to foster teaching of geometry, geography, science, and other subjects using computers and interactive educational CDs.

## Milestones

- CLP wins Manthan award
- Bank Asia sponsors 13 centers with promise for more in future
- Imdad-Sitara Foundation provided support for 13 centers
- With the help of Relief International and other CLP patrons, Internet connection is now available at 52 centers
- Standard Chartered Bank provided 200 pre-owned but fully operational computers, and has pledged support for establishing full \& associate CLCs
- Mustafa Kamal, a CLP trained teacher secured a scholarship from the US State Department for training under the "Teaching Excellence and Achievement (TEA) Program" at the University of Nebraska, Lincoln (UNL). He used the Internet connection at his CLC to find out about the program and apply. He was at UNL from September 20 through November 8, 2009.


## Digital Bangladesh and Non-Resident Bangladeshis

The Government of Bangladesh has expounded the ambitious vision of a Digital Bangladesh by 2021. CLP, in a limited way, is preparing the grounds so that the lofty vision becomes meaningful at the grass roots level. However, 114 CLCs and 37 Associate Centers who are too minuscule for a country with more than 87,000 villages. Non-resident Bangladeshis can help spread the initiative throughout the country by sponsoring CLCs at appropriate institutions in areas of their choice, providing funds for program implementation, and what is even more important by actively participating themselves and encouraging others to do likewise (Contact: E-mail: vabnj@hotmail.com ; Phone: 732-972-8362).

## Ourf Chief Guest fonight



Akramul Qader 6ecame Ambassador of Bangladesh to the United States on 4 №vember 2009.

A carrier diplomat with a cabinet rank (State Minister), Ambassador Qader previously served as Bangladesh's High Commissioner from April 1999 to 2002 to South Africa, with concurrent accreditation as High Commissioner to Zimbabwe, Botswana, Namibia, Swaziland and Lesotho as well as Bangladesh Ambassador to Thailand, with concurrent accreditation to Cambodia from 1996 to mid April 1999. $\mathcal{M r}$. Qader served as Permanent Representative of Bangladesh to the United $\mathcal{N a t i o n s}$ Economic and Social Commission for Asia and the Pacific (USNESCAP).

In addition, he held the Office of the Director General (Multilateral Economic Affairs) in the Ministry of Foreign Affairs, Dhaka, from 1994 to 1996. Additional responsibilities spanning various periods include Director, Foreign Secretary's Office and Director, South East Division in the Ministry of Foreign Affairs, Dhaka (1984-1986). He also worked Griefly in the personnel and the Finance Directorates of the Ministry.

Ambassador Qader served as Deputy Chief of Mission/Ambassador of the Embassy of Bangladesh in Brussels with concurrent accreditation to the European Commission, the $\mathcal{N e t h e r l a n d s ~ a n d ~ L u x e m b o u r g ~ ( 1 9 9 0 - 1 9 9 4 ) , ~ C o u n s e l o r ~}$ and later Deputy Chief of Mission in the High Commission of Bangladesh in $\mathcal{N e w}$ Delhi. He has also held diplomatic assignments in Pakistan (1981-1984), Myanmar (1976-1981) and the former USSR (1974-1976). Mr. Qader briefly worked as a college lecturer in the 1960s-joined the Ministry of Foreign Affairs with the Government of Pakistan in 1968 as a Section Officer, later joining the Ministry of Foreign Affairs of Bangladesh in 1972 on his return from Pakistan.
$\mathcal{M}$ r. Qader also represented the Ministry of Foreign Affairs in the Board of Directors of Bangladesh Institute of Law and International Affairs (BILIA), served as Director of the Board of Bangladesh Overseas Employment Services Limited (BOESL).
$\mathcal{M r}$. Qader holds a Master's in Islamic History from the University of Dhaka. He attended a Specialized Course in Organization and Methods at the $\mathcal{N}$ ational Institute of Public Administration, Dhaka in 1970 and Foreign Service Training Course in Australia in 1973.

## Toniffitis disingusiend speakers

ASSEMBLYWOMAN LINDA GREENSTEITN

Linda Greenstein, who has been serving in the General Assembly since January 2000, has an impressive background as an elected official, community leader, and legal advocate.

Educated at Vassar, Jofns Hopkins University, and the Georgetown University Law Center, Assemblywoman Greenstein is a specialist in disability Iaw. Previous to her election to the General Assembly, she was a Senior Staff Attorney at the Community Health Law Project and supervised the Public Interest Legal Clinic at Montclair State University. She was also a Clinical Associate Professor at Seton $\mathcal{H}$ all Law School, where she supervised the Disability Law Clinic. She has served as a Deputy Attorney General in Trenton and as an Assistant District Attorney in Philadelpfia.

Now a fulltime Legislator, Assemblywoman Greenstein was appointed Deputy Speaker of the General Assembly in 2006 after serving four years as Assistant Majority Leader. She also Chairs the Assembly Judiciary Committee and is a member of the Assembly Health and Senior Services Committee. The author of $\mathcal{N e w}$ Jersey's anti-telemarketing law - the toughest in the country - the Assemblywoman sponsored Cegislation increasing school Gus safety, expanding the scope of Megan's Law, and calfing for a State Constitutional Convention for property tax reform. She also was the prime sponsor of several pieces of legislation providing funding for open space preservation and is a founder and co-chair of the Legislative Smart Growth Caucus, which is promoting an anti-sprawโ agenda.

Linda Greenstein served as an elected member of the Plainsboro Township Committee from 1995 to 2000. She has also served on the West Windsor-PPainsboro Board of Education, and was vice president of the MMercer County Schoof Boards Association. She has served as a Trustee of Angel's Wings - a Mercer County-6ased social service agency - and is a board member of the Central $\mathcal{N e w ~ J e r s e y ~ C o u n c i l , ~ B o y ~ S c o u t s ~ o f ~ A m e r i c a ~ a n d ~}$ the $\mathcal{V}$ ew Jersey Council for the $\mathcal{H}$ umanities.

Linda Greenstein is running for $\mathcal{N J}$ State Senate in 2010.
Linda is married to Michael Greenstein and they are parents of a son, Evan.

## Matilal Palfrom VAB, our parent organization



Matilal Pal studied Economics at Dhaka University and Yale University. He started his career with research work. on development economics in Pakistan, Bangladesh and the US. His long career at the United $\mathcal{N}$ ations was devoted to issues that would hetp developing countries like Bangladesh. After retirement from $\mathcal{U N}$, Pal is now fully occupied as a Volunteer for VAB, our parent Organization.

# From 'Gurugriha' to Smart Class Rooms: Technology Shapes Education 

Swapan Kumar Gayen

## A Paradigm Shift

We have come a long way since the days of yore, when a student (shishya) had to stay with the teacher (guru) and help with household chores to receive an education. Elite few had access to education then. Today it is common to acknowledge education as a basic right of citizenry. Advances in technology have played and continues to play a crucial role in this evolving democratization of education. A supernova of such technological advances was the advent of the printing press in Europe in the mid- $15^{\text {th }}$ century. The mass production of books that followed not only helped bring education to masses, but also went on to take center stage in the subsequent social and industrial revolutions. We are in the midst of a technological revolution of similar magnitude that will shape the mode of instruction and way we learn for the foreseeable future.

This new revolution is being brought about by the developments in computer, communication, and information technologies. Personal computers, with ever increasing capabilities, are rapidly proliferating in every sphere of life. The Internet with its mammoth maze of information from multitude of sources is connecting people and organizations around the globe as never before in human history. While these developments started out as scientific endeavors, it is the demand of the global marketplace as well as communications and entertainment industries that drives their rapid advances. As industrial society gives way to information society and globalization takes hold, countries are becoming more linked financially, economically, politically, socially, and culturally than ever before. The workplace of tomorrow will be increasingly global, and it is not a matter of choice but an imperative that the education system prepares the students for navigating in a complex, intricately linked world, and instills in them a global perspective.

## Implications for Education

What are the implications of above-mentioned technological advances for primary, secondary, and higher secondary education? Advances in computation and communication are giving rise to new media, such as, the World Wide Web and virtual realities. These new media in turn can make many of the available educational contents, books and information accessible in any remote corner of the world that is digitally connected. What is even more important these new media enable messages, experiences, and visualizations that can support a paradigm shift from traditional "teaching by telling" to "distributed learning" where "learning by doing" can play a more dominant role. Multimedia technology can combine computers and voice, pictures, animated images, music, words, video, simulation and databases. Exposure to multimedia presentations helps student grasp contents and concepts better than from listening to lectures only, and active participation enables superior assimilation.
The "tools of the trade" and forms of expression that are already available, or will evolve in not-too-distant future, include, in addition to the personal computer, educational compact discs (CDs), Internet, knowledge webs, virtual communities, synthetic environments, and sensory immersion. Educational CDs can bring together sight, sound, and animation to be played on the computer. CDs on a variety of topics are widely available, much more in the developed countries than in the developing world, and can be a simple but effective learning tool. Knowledge webs have the potential to complement textbooks, libraries, and even teachers as information sources. Communications in virtual communities could complement face-to-face interactions in
classrooms and learning groups. Synthetic environments that mimic distant and/or not-readilyaccessible real world settings will enable and widen learning-by-doing. Experts further maintain that sensory immersion in artificial realities will help students understand reality through illusory experiences. While some of these forms of expression may seem to be futuristic to belong in the realm of science fiction, those are attainable given sufficient resources.

## The Internet: Possibilities and Potential Pitfalls

As an illustration of the potential of these evolving technologies to transform education one may consider the Internet, a storehouse of enormous amounts of information, which is more readily accessible. Educational technology researchers identify the Internet as a provider of three fundamental types of educational tools: tools for inquiry, tools for communication, and tools for construction. As a provider of tools of inquiry, the Internet helps find sources of information that are relevant to a task. Students gain access to resources from outside world including experts in the field, and may interact directly with them. These exposures enhance students' acquisition of knowledge. The Internet is a versatile resource for rapid communication in a variety of forms, such as, e-mail, face book, newsgroups, mailing lists, chat, videoconferencing, and webinar. In making available the tools for communication, the Internet thus enables communication with students, teachers, and professionals from different parts of the world with different cultures and traditions. As a provider for tools for construction, the Internet fosters student learning by scaffolding various learning activities that can be tailored for both individual and group learning. The students can pursue these activities at their own pace, accessing a wealth of information, evaluating those, and developing end products, a process that is highly likely to promote their thinking skills.
Even with all these beneficial attributes of the Internet, there are potential pitfalls and caveats in Internet-based instruction that one needs to be aware of and avoid. First, students need to be properly guided as to how to navigate the web and retrieve information pertinent to their tasks. Second, the students should be taught how to distinguish between genuine websites and sites that provide inaccurate, incomplete, or biased information. It is important to remember that anybody can post information on the web, and the authenticity and quality of the content depend on the knowledge, motivation, ability and integrity of the person making the posting. Third, the Internet-based lessons, like the conventional ones, are required to be carefully planned so that learning experience is stimulating, meaningful, and engaging for students. Practical considerations, such as, availability of computers with Internet access, the amount of time students may be able to spend on the Internet in the classroom may limit the use of Internetbased lessons. Finally, on the flip side web surfing can be addictive and may become detrimental instead of being beneficial to learning.

## 'Vision 2021’ and a Student in Rural Bangladesh

Where does an underprivileged student in rural Bangladesh stand in relation to these technological advances, and fascinating educational tools? It is quite likely that she does not even have access to a computer yet. 'Digital divide' could be crippling for her. Fortunately, compared to other disparities in life the digital divide is more amenable to remedy. Remedy may be forthcoming as the Government implements the policies it has announced. What is even more intriguing is that in 114 Computer Literacy Centers (CLCs) and 37 associate CLCs run by the Computer Literacy Program (CLP) in rural Bangladesh her peers are becoming computer literate!

The Government has floated the lofty vision of a Digital Bangladesh by 2021, also known as Vision 2021. The National Information and Communication Technology (ICT) policy (Jatiyo Tathya O Jogajog Prajukti Neetimala - 2009) has been approved, which lists the tasks assigned to different ministries and the anticipated outcomes. The salient tasks for the Education ministry include: to update the ICT curricula for secondary and higher secondary education on a regular basis to meet the needs of a knowledge-based society; to ensure that primary school and middle school students and teachers are ICT literate; to provide all primary, secondary, higher secondary educational institutions, teacher training colleges, as well as, technical and vocational education and training (TVET) institutions with computers, high-speed Internet connection, and necessary resources for multi-media based instructions; to establish, in every union, a model school with ICT resources to serve as the information access center of the union so that students from neighboring schools can use those as well; to ensure appointment of IT trained teachers in secondary and higher secondary educational institutions; and to encourage development of Bangla text processing tools and software for preparing audio from printed materials for the visually challenged and/or illiterate individuals. Substantial tasks have been outlined for higher education, ICT manpower development, enhancing participation of female students in ICT courses, and related areas. The policies and tasks put forward are ambitious, and if properly implemented will be a bold step in digitizing the education landscape of Bangladesh.
The 2010-2011 budget allocates Tk 3.12 billion for the ICT sector, which is respectable, but much lower than the expected total of Tk 28 billion. That expectation was built on the ICT policy mandate that $5 \%$ of Government's development budget, and $2 \%$ of the revenue budget be allocated for the ICT sector. In his budget speech the finance minister announced that steps have been taken to establish computer laboratories in 1,200 educational institutions at the upazila level in 7 divisions and in 200 educational institutions in 6 metropolitan cities. ICT enthusiasts in Bangladesh eagerly await the implementation of these proposals.

## Steps Towards Realization: Computer Literacy Program and Smart Class Room

Government involvement is indeed crucial for introducing computer and ICT in classrooms throughout the country. However, it is heartening to note that CLP has made an impressive groundwork, providing hands-on basic computer training to 29,787 students in mostly rural areas of 44 districts of Bangladesh, and training 272 teachers as of April 2010. Volunteers Association for Bangladesh, New Jersey (VAB-NJ) launched the program in 2005 with the mission of "Empowering underprivileged youths of Bangladesh through computer literacy." The program is implemented in partnership with D . Net, a pioneer non-government organization devoted to spreading of information technology in Bangladesh, particularly in the rural areas, and the local school administration where a CLC is established. Each CLC is equipped with a minimum of four computers, one printer, other accessories and requisite furniture, and Internet connection where available.

CLP is now exploring the next prudent step in its evolution, which is to leverage on the computer, Internet, and human resources in the CLCs to initiate e-learning. The long-term goal of the initiative is to enhance the quality of education in Bangladesh through integration of the educational technologies mentioned earlier to transform the way students are taught. The planned first step in that long journey is to establish "smart class rooms (SCRs)" in some of the existing CLCs, and to develop contents and technical know-how for eventual propagation of SCRs in schools throughout the country. Every SCR will be equipped with a computer, one large screen monitor ( $32^{\prime \prime}$ ' inch), other peripheral hardware as required, and a back-up power supply.

While it is desirable to integrate computer and ICT in teaching of every subject, the focus at the initial stage will be on complementing the instruction of English, Science, and Geometry in secondary schools. The choice of the three subjects is motivated by the following considerations. English has evolved as the lingua franca of the world, and the contents available through the Internet are overwhelmingly in English. So learning English is crucial for interacting with the rest of the world, and for benefiting from and contributing to the developments in the ICT sector. While students in Bangladesh start learning English early on, the crucial areas of comprehending spoken English and carrying out a conversation in English are not sufficiently emphasized. So, the English instruction will focus on "teaching of everyday English" dedicated to filling this void in the current English education in our mainstream secondary schools, and will be an important addition for enhancing its quality and utility. Geometry is selected because it helps students develop their analytical skills, and instill in them deductive reasoning ability. Recent statistics depict an alarming trend that the number of students taking secondary school certificate (SSC) examination from Science group is diminishing significantly every year. Making teaching and learning interesting through the use of ICT may be one of the possible ways to reverse this alarming trend. What is also noteworthy is that there is a paucity of qualified English, Science and Mathematics teachers in many schools in rural areas of the country. The planned multimedia presentation in a SCR will play the role of teacher's aide, and substitute, in part, the traditional lecture given by the teacher.
To begin with, three instructional CDs for the three subjects have been identified. The CD on English is an outgrowth of the "Computer Teaches Everyday English (CTEE)" pilot program that VAB-NJ is pursuing. The science and geometry CDs were developed by experts in Bangladesh keeping the curriculum and preparation of students under consideration.
The "smart class room" experiment is currently being pursued at the Uddipan Badar-Shamsu Biddya Niketon in Bagerhat using the three CDs as sources for contents. The initial feedback is overwhelmingly positive. The students are fascinated by the multi-media mode of presentation of the contents, and claim to gain a better understanding of the subject matter when they learn it in their SCR. The teachers are also highly appreciative of these new tools, as those are getting their messages across to students and making their job more enjoyable.

## Our Journey Begins

Education system all over the world is up for change, with globalization as the driving force and technology as the catalyst for that change. The traditional views of society on which the current educational paradigms are based are no longer valid in this age of globalization. Societies that can adapt to or better yet can control these changes will thrive and those who fail will lag behind. In order to prosper as a society we have to harness the new technology to provide our students with an engaging, interactive, and dynamic system of education. It is a journey we ought to embark up on, and there are no retreats.

Swapan Kumar Gayen is a professor of Physics at the City College of the City University of New York, and $a$ volunteer of VAB-NJ.

## About Volunteers Association for Bangladesh

One common goal: empowering disadvantaged youths from the rural and poverty challenged areas of Bangladesh for a better life. VAB-New Jersey pursues the goal by providing skill training in computer literacy while its parent organization, Volunteers Association for Bangladesh (VAB), does so by providing quality high school education. Established in 1998 and led all through by Dr. A T Rafiqur Rahman, VAB just completed a decade of service in Bangladesh.

VAB raises funds abroad, mostly from individuals, and utilizes them in Bangladesh. At present, VAB is partnering with 33 rural schools in 15 districts of Bangladesh for the empowerment of the high school students, through an integrated set of high school programs. The premier program is its scholarship program for the rural high school students enabling them to bear all educational costs leading up to high school graduation. Recognizing that quality education in rural areas is facilitated by better classroom teaching and complementary tutoring or coaching, VAB introduced the programs on teachers' training and on tutoring. Tutoring is provided free of cost at the terminal level of high school education prior to the nationally administered graduation examination, Secondary School Certificate (SSC) exam, and also at the earliest level, i.e., at Class VI, to remedy the academic deficiencies resulting from low quality primary education. To benefit from the improved learning environment, VAB equips rural schools with books, science lab equipment, computers as well as sports and cultural equipment, through its school improvement program.

The combined outcome of the integrated set of programs bears testimony to its effectiveness. For the past three years, the SSC pass rate in the VAB schools is higher, by 5 to 10 percent, than the national rate that is dominated by better-manned, better-equipped and better-managed urban schools. VAB students themselves have a pass rate in the range of 95-97 percent, higher than the students in Dhaka City. VAB schools also achieved a lower dropout rate than the national level, as shown by an independent research study covering two academic cycles ending 2007 and 2008. The study was published this month by the best publishing house, University Press Ltd., Dhaka.

To enhance the empowerment of the rural high school students, VAB introduced a college scholarship program. At the other end, a preschool program has also been introduced to help the infants from the poorest families to learn the basics that would help them in primary education and hopefully in secondary education down the line.

During the decade of VAB's educational service, more than 3,600 students of both sexes received scholarships, 860 prospective SSC candidates were able to pay SSC exam fees and related dues, over $3,100 \mathrm{SSC}$ examinees availed tutorial service, and 2,500 sixth graders benefited from remedial course for entering high school. Additionally, about 440 teachers were provided with orientation and training tailored to their needs and 18 most deprived schools were upgraded with books, computers, and science equipment. VAB also managed 11 preschools where nearly 470 kids received early childhood education, and more than 325 students were given college scholarships. It is estimated that nearly 15,000 poor students of rural Bangladesh benefited directly or indirectly from different programs of VAB.

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# Glimpses of e-Education at Uddipan Badar-Shamsu Bidya Niketon 

Asad-Uz-Zaman Asad

"I enjoy doing math on computer using multimedia CD. We learn lessons with pictures, animations and stories, which make lessons easy and understandable." Hazera Khatun, Class VI

Uddipan Badar-Shamsu Bidya Niketon (UBSBN) is a junior secondary school in the village of Boitpur, Bagerhat. It is participating in a novel pilot program on e-Education, that uses a computer on wheels and interactive, multimedia CD for limited classroom instruction. Students find it enjoyable. So do the teachers. Dipankar Pal, Headmaster of the school said, "As a part of the pilot program, students in class VI and class VII are getting scope of learning English, Science and Math through multimedia CD. The students are enjoying their lessons. Even weaker students are doing better."

UBSBN's experiment with e-Education is another milestone in its participation in the Computer Literacy Program (CLP) since 2005. The program established a Computer Literacy Center (CLC) at UBSBN that is equipped with 4 personal computers, a printer, other peripheral equipment, and trained two teachers in computer usage. The e-Education pilot program leverages on the CLC resources. New Jersey Chapter of Volunteers Association for Bangladesh, VAB-NJ (www.vabonline.org/vabnj) launched CLP with the mission of "Empowering underprivileged youths in Bangladesh through Computer Literacy" in 2005. The project is implemented by D.Net in Bangladesh. The vision of this program is to reduce the digital gap and help develop a knowledge-based society in Bangladesh.

In 2008 VAB-NJ and D. Net started the CTEE (Computer Teaches Everyday
 English) project to help students learn English language with proper pronunciation and comprehension, all the while emphasizing on spoken English, which is lacking in regular classes. As a first step CTEE has developed an English teaching CD-ROM that draws from the daily experiences of students in Bangladesh. The contents of the CD-ROM complement the NCTB (National Curriculum and Textbook Board) book for classes VI, VII, and VIII.

The efficacy of the CD and e-Education is being tested in a pilot program in five schools with CLCs. These schools are Uddipan Badar-Shamsu Bidya Niketon, Bagerhat; Mukul Niketon School, Mymensingh; Mamun Smrity Public School, Jamalpur; Brahmanbaria High School, Brahmanbaria; and Gorpara High School, Manikgonj. While the computer lab in a CLC is confined to one room, CTEE uses a computer from the lab wheeled into classrooms. The CD helps students learn English and develop communication skills. In addition to English, CDROMs for science and geometry have been identified as well.


On April 15, 2010 I paid a visit to UBSBN to personally observe the e-Education initiative there. I was impressed with what I saw. The school is using English, Science and Math CDs in class VI and class VII; and students are relishing this new teachinglearning tool. This makes learning more active by positively engaging students using colorful pictures and animation. As Mohammad Sohel Rana of Class VI puts it, "When I learn any lesson of my English book through computer, I don't forget it. Because this learning is fun, and I can remember the story, picture and text as well."

Teachers share the enthusiasm of the students as well, and are eager to have more contents in the multi-media format. As the mathematics teacher Kishor Kumar Mondol observes, "We have a CD only for geometry. It would be better if we could teach all the primary and secondary math classes using multimedia CD."

Many rural schools in Bangladesh today lack adequate teaching staff, and state of instruction is rather poor. However, I came back from my visit of Uddipan Badar-Shamsu Bidya Niketon with a sense of renewed optimism. The eagerness and enthusiasm of students and teachers there was contagious. CLP's venture into e-learning, and introduction of "smart class room" concept is the right move at the right time. It is only fitting that CLP, winner of Manthan South Asia Award 2009 in the e-Education category, will take this timely initiative and play a pioneering role in realizing the educational goals of Digital Bangladesh.

[^1]



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| 1 | Hazi Kashem Ali Degree College | Mymensingh Sadar |
| 2 | Hazi Kashem Ali Mohila College | Mymensingh |
| 3 | Bagerhat Bahumukhi High School | Amlapara, Bagerhat |
| 4 | Mukul Niketon High School | Mymensingh Sadar |
| 5 | Shamsuddin Nahar Youth Excellence Center | Baitpur, Bagerhat |
| 6 | Amla Sadarpur High School | Amla, Kushtia |
| 7 | Goal Gram College | Goalgram, Kushtia |
| 8 | Jamila Model High School | Khukni, Sirajgonj |
| 9 | Kadambari High School | Kadambari, Madaripur |
| 10 | Farha Madhomik School | Komrail, Khulna |
| 11 | Mirzanagar Touhid Academy | Subar Bazar, Feni |
| 12 | Barashalghar Union High School | Baroshalghar, Comilla |
| 13 | Baruahat High School | Baruahat, Rangpur |
| 14 | Mamun Smriti Public High School | Chantia Bazar, Jamalpur |
| 15 | Parkhidirpur Maddhomic Biddalaya | Parkhidirpur, Pabna |
| 16 | Shologhar AKSK High School | Shologhar, Munshigonj |
| 17 | Babrijhar High School | Babrijhar, Nilphamari |
| 18 | Bhaterchar D.A. Mannan Pilot High School | Bhaterchar, Munshigonj |
| 19 | Ghagotia Chala High School | Chala Bazar, Gazipur |
| 20 | BL High School | Amlapara, Sirajgonj |
| 21 | Laskardia Atikur Rahman High School | Laskardia, Faridpur |
| 22 | McPherson Public Library | Bagerhat Sadar |
| 23 | Khaikara High School | Khaikara, Gazipur |
| 24 | Kurigram Girls High School | Kurigram Sadar |
| 25 | Banna Kandi N.M. High School | Bannakandi, Sirajgonj |
| 26 | Karihata High School | Karihata, Gazipur |
| 27 | Rasulpur Basirun Nessa High School | Rasulpur, Tangail |
| 28 | Maharajpur High School | Maharajpur, C. Nababgonj |
| 29 | North Bengal Medical College | Sirajgonj Sadar |
| 30 | Panchani High School | Panchani, Chandpur |
| 31 | Nadir Hossin Girls High School | Kashba Najail, Rajbari |
| 32 | Nasirkote High School | Nasirkote, Chandpur |
| 33 | Adhunika Bangladesh Society | Azimpur, Dhaka |
| 34 | M.A. Karim Bahumukhi High School | Hinga Nagar, Tangail |
| 35 | Ambarkhana Girls High School | Sylhet, Sylhet |
| 36 | Kazi Jalaluddin Bahumukhi Girls High School | Sylhet, Sylhet |
| 37 | Ekuria High School | Ekuria, Gazipur |
| 38 | Shahaber Bazar High School | Shahaber Bazar, Sylhet |
| 39 | Rifayetpur High School | Rifayetpur, Kushtia |

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Kachua, Chandpur

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[^1]:    Asad-Uz-Zaman Asad is an Assistant Director of D. Net, Dhaka. He is pursuing research on e-learning towards his M. Phil degree at the University of Dhaka, Bangladesh.

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