

March - June 2014 Volume 2, Issue 1

# National Defence College, Bangladesh



## Commandant's Note

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I am extremely delighted to see the 2<sup>nd</sup> edition of NDC newsletter, which has quite vividly portrayed the glimpses of course curriculum and activities conducted

college. I am sanguine that the course members, faculty, staff, and the alumni alike would love to scan down the booklet to stroll through the nostalgic and colourful memory lane.

The contemporary world is marked with phenomenal technological development, particularly in the fields of socialmedia and IT. While the Armed Forces today is depending more and more on superiority of data collection and weaponry, the multi-faceted non-traditional

threats have taken the centre stage in the security parlance round the globe. We observe these everyday in our curriculum, in war games and in our research. Through these and with the criss-cross interactions among the course members across the continents, we endeavour at developing the balanced view and vision to provide effective and knowledge based leadership at strategic and operational realm.

I appreciate the sincere efforts of the AFWC wing and acknowledge the solemn endeavour of the editorial board to bring out the current issue of the newsletter.

"Rabbi Zidni Ilma (O my Lord! Advance me in knowledge)"



Commandant with Myanmar Naval Chief



Finance Minister Abul Maal Abdul Muhith, MP in the Certificate Awarding Ceremony of Capstone Course

"Those willing to give up a little liberty for a little security deserve neither"

- Benjamin Franklin

"Learn from yesterday, live for today, hope for tomorrow. The important thing is not to stop



Commandant Attending a Defence Seminar at Colombo, Sri Lanka



## Academic Events







NDC 2014

AFWC 2014

Capstone Course 2014

# Internal Study Tour and Local Visits

Internal study tours and local visits are aimed at providing an in-depth understanding of the state organs, security and defence organizations, business world, non-government and social institutions, industrial base as well as the culture and traditions of Bangladesh.





Visit of NDC 2014 to National Mausoleum

Visit of AFWC to National Parliament







AFWC at AHQ



A Sunny Day at AFD



ND Course during Cox's Bazar Visit



# Distinguished Visitors and Guest Speakers

Ministers, members of parliament, senior military officers, academicians, intelligentsia, , business leaders, technocrats, ambassadors and high commissioners are invited to share their multi-dimensional experience, knowledge and wisdom through lectures, open discussions and interactive sessions.



Dr Gowher Rizvi interacting with the course members of ND Course



Minister of Agriculture Delivering Lecture at NDC

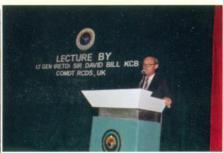


CNS in a Session with AFWC



COAS with his Vision with AFWC members CGS Delivering Lecture to AFWC





RCDS Team's Visit to NDC



Dr Hossain Zillur Rahman Delivering a Lecture Tanzanian Delegation Visiting NDC to ND Course Members





JOPP, UK Team with AFWC Members



Mr. Johannes Zutt, Country Director, WB Interacting with ND Course



Lt Gen Dan 'FIG' Leaf (Retd), Director, Asia Pacific Centre for Security Studies with ND Course

# Knowledge Corner

### Military Application of Nano Technologies

nanotechnology, i.e., the science of designing microscopic structures in which the materials and their relations are machined and controlled atom-byatom. Today Scienare using nanotechnology to create materials with properties that will

that has markable ability to change col-Considering that nanotech- Fuel

Historically, nanotechnology is a revolutionize military technology. In nology is already an integral part of child of the nuclear weapons labs. fact, nanotechnology is no longer a the development of modern weapons During and after the wars in Iraq, dream discipline for future research-it and other military gadgets, it is impor-Yugoslavia and Afghanistan; it was felt is creating products for specific appli- tant to realize its immediate as well as that some new earth-penetrating cations today. High strength nano- long term potential in military applicaweapon was needed to destroy deeply composite plastics are soon expected tions. Nanotechnology is not a difficult buried command posts, or facilities to replace metal and thus reduce technology to acquire. Indeed, many related to weapons of mass destruc- weight and radar signature of military less developed states and emerging tion. The need was amply met by the weapon platforms. Nano-fabrics are economies are investing heavily on emergence of a powerful new weap- currently being researched for use in nanotechnology industries. Emerging ons with the inner space of matter to military camouflage. A development economies could take advantage of a be conquered by the science of called 'active camouflage' allows the greater flexibility in developing entirely wearer or object new armament manufacturing capato blend into its bilities that effectively incorporate latsurroundings, est nano-technological innovations much similar to and developments. Nanotechnology cuttlefish may thus serve as a potential 'game re- changer' in the military landscape.



# Future Soldier System

best trained men and women in the

history. The military is constantly adapting to the requirement of the challenging Researchers battlefield. around the world are devoting themselves to equip the 21st century soldier with latest gadgets and cutting edge weapons to overpower the enemy. Not long before, the ground combatant marched his way through the muds and bloods depending on his rifle and boots. Much have changed, today soldiers are equipped with corner-shot guns, bulletproof vests, personal GPS, night vision goggles

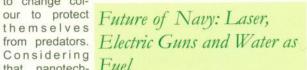
But what awaits in future? The future is always uncertain. However, by apply-

ing logic and imagination to situacurrent tions and tech-

Today's combat troops are the nologies, the 'Future Soldier System' concept was developed to identify ca-

pabilities a Soldier might carry into battle. The 'Future Soldier System' concept envisioned the radical use of technologies such as nanotechnology, powered fluidskeletons, and based body armor to provide the infantry with significantly higher force multiplier than the opposing force. As the asymmetric battlefield continues to evolve, a future soldier will probably equipped with a single unmanned platform capable of operating in all en-

vironments of the complex battle space conducting missions through the mazes of city buildings, streets, vehicles, tunnels, and waterways along with operations in mountain valleys, ridges, caves, and rivers. Efforts are on in developing a Harry Potter style invisible cloak to hide the soldiers from enemy detection.



Imagine ships that fire missiles at seven times the speed of sound without using explosives, or that use lasers to destroy threats at the cost of about a dollar a shot, and vessels making fuel from the very seawater in which they are floating. That is the glimpse of the high-tech future ships. The Laser Weapon System (LWS) can be fired by one sailor using a video game-like console and spending about \$1 per shot of a directed-energy source. The other weapon prototype, the electromagnetic railgun, uses electromagnetic force to



send a missile at 7.5 times the speed of sound. The railgun projectiles could cost about 1/100th the price of current missiles. There has also been proof-ofconcept on the ability to draw carbon dioxide and hydrogen from seawater and turn it into forms of gasoline. All these can change the way we plan and think of conducting warfare.



## High Energy Liquid Area Defence System

Enemy surface-to-air threats to manned and unmanned aircraft have become increasingly sophisticated, creating a need for rapid and



effective response to this growing category of threats. High power lasers can provide a solution to this challenge, as they harness the speed and power of light to counter multiple threats. Defense Advanced Research Projects Area Defense System hicles and patrol ships. (HELADS). The goal of

the HELADS program is to develop a 150 kilowatt (kW) laser weapon system that is ten times smaller and Fabian Strategy: Origin of lighter than current lasers of similar Asymmetric Warfare? power, enabling integration onto tactical aircraft to defend against and de-

Agency feat ground threats as well as (DARPA) has plans for vide additional capability for offena system that neutral- sive missions, adding precise targetsurface-to-air ing with low probability of collateral threats to aircraft with damage. The weapon system can also its High Energy Liquid be mounted on armoured combat ve-



Quintus Fabius was Roman General during the Second Punic War (218 -202 BC), in which the dictator the Roman Republic gave the task of

defeating the great Carthaginian General Hannibal in southern Italy. He advocated avoiding open battle, which later came up as the famous 'Fabian Strategy'. The 'Fabian Strategy' is a military strategy where pitched battles and frontal assaults are avoided in favor of wearing down an opponent through a war of attrition. While avoiding decisive battles, the side employing this strategy harasses its enemy through skirmishes to cause attrition, disrupt supply and affect morale.

## Security and Development Nexus: A Jigsaw Puzzle?

Most contemporary wars are intrastate conflicts, which often have farreaching regional as well as international dimensions and ramifications. Such conflicts are often thought to be the consequence of the failure of a country's developmental efforts. The interactions of security and development are frequently encapsulated in the maxim "No security without develcongruent.

remain concerned about the subordi- academic communities.



opment, no development without se- nation of development to the security curity". Therefore, they are increas- priorities. For development actors, ingly regarded as overlapping policy securitization of a development issue fields, although they are not always may raise their prominence on the political agenda, which can lead to immediate action, political prioritization Linking security and development and mobilization of funds. As such, can result in the securitization of de- although several authoritative policy velopment rather than the documents state a direct link between 'developmentalization' of security, development and security, the link Many in the development sector remains contested both in policy and

## Ptolemaic and Copernican views and analogies to common war fighting perspective



Ptolemy reasoned that the universe revolved around the earth—like the way some think about ground operations being at the center of all warfare. Copernicus set science straight, recognizing that the earth was but one part of a much greater universe, which revolved around the sun-like the actual relationship between air, land, and sea operations and how they contribute to a joint theater campaign.

# Social Events

Social programmes are arranged for course members and their families in order to make life at NDC more enjoyable



Ice Breaking Programme - A Special Moment



Ladies Trying out Putting during Annual Picnic



Eso-he-Boishakh... Welcoming Bangla New Year 1421



A glimpse of Commandant's Garden Party



Ladies Gathered during Commandant's Dinner



Exotic Food Display during Pohela Boishakh





A Cricket Moment

# Sports

Various sports competitions like cricket, tennis, golf and volleyball are organized by the college in order to provide much needed relief



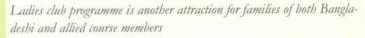


Sweating Out Through an Exciting Volleyball Match



NDC-Janik Golf Tournament

# Ladies Club





Chair Person of NDC Ladies Club



Senior Ladies in Ladies Club Programme



Ladies Club Programme on Rabindra Nath Tagore



Ladies Club Programme Celebrating Birthday of the National Poet



# Alumni Page

## Capstone Course Reunion 2014





# A Glimpse of Important Visitors

Major General M L Riddle Webstar	Director, CMT,	02 March 2014
	UK Defence Academy	
Lieutenant General Charles Lawrence Makakala	Commandant	30 March 2014
	NDC, Tanzania	
Lieutenant General Dan 'FIG' Leaf (retd)	Director, APCSS	28 April 2014
Admiral Zeya Kyan Htin Thura Thet	C-in-C, Myanmar Navy	08 May 2014
Lieutenant General Sir David Bill KCB (retd)	Commandant, RCDS	05 June 2014

National Defence College (NDC) was established on 7 December 1996. It is located at Mirpur cantonment in Dhaka city. NDC conducts two major courses, ND course and the Armed Forces War Course (AFWC). Besides, NDC also conducts Capstone Course for the highest level policy makers of the country. Courses in NDC are designed for the training of senior officers of the armed forces and civil services for higher responsibility in the direction and management of defence and national security.

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