

FORUM FOR NATIONAL SECURITY STUDIES

(Registered Trust 2002)

Annual Report for the Financial Year 2005-2006

The Forum for National Security Studies was formed in 2001 as an independent non-profit Trust to undertake research and studies in national security issues. It established two think tanks under its aegies:

1. Centre for Air Power Studies (CAPS)
2. Centre for Strategic and International Studies (CSIS)

2. The Trust was duly registered in April 2002 under the existing regulations U/S 12 A of the Income Tax Act. The activities for the financial year 2005-2006 for both the Centres under the Trust are listed in the following paragraphs. The **Trustees** are:

Chairman

- Shri **MK Rasgotra**, former Foreign Secretary

Members

- Dr. **Sanjaya Baru**, Media Adviser to PM, former Chief Editor *Financial Express*
- Air Chief Marshal **OP Mehra**, PVSM former Chief of Air Staff, Former Governor Maharashtra, former Governor Rajasthan
- Shri **Vinod K. Misra**, Secretary Defence (Finance) w.e.f. 30th March 2006
- Capt. **Ajay Singh**, Civil aviation expert, former Deputy Director Air Defence, IAF
- Shri **K.Subrahmanyam**, former Secretary Defence Production, former Director IDSA, Consulting Editor *Times of India* and *Economic Times*
- Shri **N.N.Vohra**, former Principal Secretary to the Prime Minister, former Defence Secretary, former Home Secretary

Member and Managing Trustee

Air Commodore **Jasjit Singh** AVSM Vrc VM (Retd), former Director, Institute for Defence Studies and Analyses, former Director Operations, IAF

3. Executive Council, CAPS

The Trust has constituted the following Executive Council on 20.1.2006 for guiding the activities of CAPS with the following members :

- | | |
|---------------------------------------|-----------|
| 1. Air Chief Marshal (retd.) OP Mehra | President |
| 2. Brig.(retd.) Gurmeet Kanwal | Member |
| 3. Shri G.Parthasarathy | Member |
| 4. Air Marshal (retd.) Vinod Patney | Member |

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| 5. Air Cmde (retd.) Jasjit Singh | Member |
| 6. Vice Admiral (retd.) R.B.Suri | Member |
| 7. Air Vice Marshal (retd.) Kapil Kak | Member |
| 8. Shri TK Mukherjee, Dy.Director(Admn) | Member |

4. **Corpus Fund**

Ministry of Defence sanctioned a one time non-recurring Grant of Rs.5,00,00,000/-as **Corpus Fund** to the Centre for Air Power Studies established under the Forum for National Security Studies on 20.2.2006. The interest amount accruing out of the Corpus Fund shall be exclusively used for the specific object/activities of CAPS only. The Government have set out general and specific conditions for utilization of the Grant which are being complied with. CAPS has received the Grant amount on 17.3.2006. With the approval of the Trust the Corpus Fund was invested on March 28, 2006 for 10 years with the ICICI Bank, Vasant Vihar Branch, New Delhi.

5. **Research Projects and Studies**

Department of Defence Research & Development Organisation (DRDO), Ministry of Defence approved a 2 year Project on Research on **“Unmanned Air Vehicles and Transformation of Air Power”** during the period 2005-2007 and sanctioned a Grant of Rs.35,01,750/-. The first instalment of Rs.15,23,750/-for the first year was released in December, 2005 and the project work is under way. AVM Kapil Kak (retd.),Additional Director of CAPS, Brig. Gurmeet Kanwal, Senior Fellow (since July, 2006) and Wg.Cdr. R.Goyal, Research Fellow have been carrying out the project work as per the terms and conditions set out in the sanction letter dated 23.9.2005.

6. **Serving Officers (Study Leave)**

Air Headquarters assigned four officers in the rank of Group Captain and Wing Commanders in August, 2005 for a period of 2 years beside one continuing from the previous year. In all 5 Indian Air Force officers have been undertaking research on assigned projects during the period under report as follows:

<u>Names</u>	<u>Project Assignment</u>
1. Gp.Capt.TD Joseph, VM	Role of Air Power in India's Future Wars
2. Wg.Cdr. VN Srinivas	India's National Security and Defence Expenditure
3. Wg.Cdr.S Kulkarni	Network Centric Warfare (Proceeded on posting on 3.6.2006)
4. Wg.Cdr. Rajiv Goyal	UAV Development, Employment & Operational Strategy in India
5. Wg.Cdr. KK Nair	Role of Space in India's Defence

7. **DAE Research Project**

Department of Atomic Energy had sanctioned a two-year (2004-2006) research project on **“India's Energy Security and Imperatives of Nuclear Power”** to the Centre for Strategic and International Studies (CSIS) in September 2005 and released a Grant of Rs. 12,60,600/-. CSIS has successfully carried out this project work and brought out a fortnightly Newsletter titled **“Nuclear Power”** regularly. This project work will come to end in September, 2006.

8. Finance

(a) Centre for Air Power Studies received Rs. 5 crores from Govt. of India, Ministry of Defence as a one time non-recurring Special Grant-in-Aid in March, 2006. As per conditions of the Grant, only the interest on this amount may be used exclusively for activities of the Centre for Air Power Studies (CAPS). In addition the Centre for Air Power Studies received two Grants from Air HQ during the period under report - i) Rs.2,13,000/- on 10.10.2005 for organising the 2nd Subroto Mukerjee Seminar on “Aero Space Power and National Defence” on October 15-16, 2005 at India Habitat Centre, New Delhi and ii) Rs.6,00,000/- on 31.10.2005 cover the expenditure of CAPS on seminars etc.

(b) Centre for Strategic & International Studies (CSIS) received a sum of Rs.6,06,300/-during the year 2004-2005 from DAE to pursue the 2-year project titled “India’s Energy Security and Imperatives of Nuclear Power” and carried over the unspent grant of Rs.5,14,554/- during 2005-2006.

9. Journal

The Centre for Air Power Studies has continued to regularly publish its quarterly journal **AIR POWER** during the period under report. CAPS has received support from Air HQ for bulk subscriptions beside individual subscribers. The details of articles published per issue during the year are given in **Appendix-A**.

10. Activities of CAPS

Seminar/National Seminar

The 2nd Subroto Mukerjee Seminar and other seminars held during the year under report have been outlined in **Appendix –B**.

Fellows’ Seminars

Centre for Air Power Studies organised Fellows’ Seminars during the year under report as per details given in **Appendix -C**.

Research Work

Research scholars including service officers presented papers/participated in various seminars/workshops held during the year under report outside CAPS are given in **Appendix-D**.

11. Library

During the year under report, 827 books and RAND were acquired/received as donations are as follows:

a) Books acquired	12
b) Books donated by:	
i) Air Chief Marshal OP Mehra	161
ii) Shri K.Subrahmanyam	78
iii) Knowledge World	50
iv) Air Cmde Jasjit Singh	<u>526</u>
	<u>827</u>

12. Web-site

The Centre for Air Power Studies had set up its web-site <aerospaceindia.org> covering the charter and activities/publications of CAPS since December 2005.

13. Annual Essay Competition-2005

CAPS organised an Air Power Annual Essay Competition-2005 on “Joint Operations in Modern Warfare: Place, Role and Impact of Air Power”. Rs.10,000/- was donated by Air Chief Marshal OP Mehra (retd.) for this competition and the Knowledge World donated a set of books worth of equal amount for the second prize. Wg. Commander Sartaj Bedi was awarded the First Prize and Brig. Manik Sabharwal, SM was awarded the Second Prize.

14. Audited Accounts

Audited statement of accounts of the Trust for the financial year 2005-2006, duly certified by the Chartered Accountants, are attached. The Audited Accounts in respect of the Centre for Air Power Studies have been duly approved by the Executive Council of CAPS.

Air Power Journal

April-June 2005 (Summer 2005)

Precision Strike and its influence on future Wars	Air Marshal V.Patney (retd.)
RMA and Aerospace Technologies (Part-I)	Air Cmde M.Matheswaran
Kashmir, Covert Wars and Air Power	Air Cmde Jasjit Singh (retd.)
Air Power and Special Operations	Shri Saikat Datta
Mackinder in the Aerospace Age	Air Marshal Anil Trikha (retd.)
Strategic Planning for the Air Force	Deborah L. Westphal, Richard Szafranski and Dr.Gregory S.Parnell
Shrinking, Flourishing or Both Global Defence Industry in Transition	Shri Deba Mohanty
Time: The Critical Dimension in War	Capt. Ajay Singh

July-September 2005 (Monsoon 2005)

Indo-US Relations in a Changing World	Shri K.Subrahmanyam
IAF and UN Peace-Keeping Operations	AVM Marshal Kapil Kak
The Congo Diary	Flt. Lt. Charanjit Singh
RMA and Aerospace Technologies (Part-II)	Air Cmde M.Matheswaran
Network-Centric Warfare	Gp.Capt. Rohit Varma, VM
Merging Frontiers of Air and Space	Sqdn. Ldr. K.K.Nair
Planning to Win	Lt.Col.J.P.Hunerwadel
Nuclear Strategies in the age of Missile Defences	Dr. Manpreet Sethi

October-December 2005(Winter 2005)

Indian Air Force in the Evolving Security Environment	Air Chief Marshal SP Tyagi
Joint Operations in Modern Warfare: Place, Role and Impact of Air Power	Wg.Cdr. Sartaj Bedi
Static Principles of War in a Changing World	Capt. Sanjay J. Singh IN
Planning Military Power for the Future	Air Cmde Jasjit Singh (retd.)
Centres of Gravity: Relationship with Effects- based Operations and Campaign Planning	Gp.Capt. A.S.Bahal
Air Power and Asymmetric Challenges to India	Gp.Capt.TD Joseph
ISR for Air Operations	Air Marshal TM Asthana
China's Nuclear Command and Control	Lt.Commander Stephen Polk

January – March 2006 (Spring 2005)

Joint Operations in Modern Warfare	Brig. M.Sabharwal SM
Brahmastra of Future Wars "The Brahmos"	Lt.Genl. R.S.Nagra (retd.)
International Defence and Military Cooperation	Col. A. Muthanna

Trends in Defence Expenditure: India, China
and Pakistan

Wg.Cdr V.N.Srinivas

Military Modernisation in China: Some
Implications for India

Gp.Capt.TD Joseph

Pakistan's Conventional Arms Acquisitions:
Priorities and Prospects

Ms Shalini Chawla

Indian Civil Aviation

Gp.Capt. R.Chidambaram (retd.)

In Search of High Ground the Air Power Trinity
and the Decisive Potential of Air Power

Lt.Col. David K. Edmonds

SEMINAR AND NATIONAL SEMINARS

1. **2nd Subroto Mukerjee Seminar** on Aerospace Power- “*Aerospace Power and National Defence*” was organized at India Habitat Centre, New Delhi during October 15-16, 2005. The programme is as follows :

October 15 Welcome Remarks by Air Cmde Jasjit Singh, Managing Trustee of the Trust
Presidential Address by the Marshal of the Indian Air Force Arjan Singh, DFC,
Inaugural Address by Shri Pranab Mukherjee, Hon’ble Raksha Mantri
Keynote Address by Air Chief Marshal SP Tyagi, Chief of the Air Staff.

Session I: Military Power and National Security

Chaired by Shri NN Vohra, former Defence Secretary
Speakers: National Security Objectives and Defence Policy - AVM Kapil Kak
Nuclear Deterrence and Defence - Dr.Rajesh Rajagopalan
Planning for Aerospace Dominance - Air Marshal Vinod Patney

Session II: Conventional War in Nuclear Environment

Chaired by Shri K.Subrahmanyam, former Director, IDSA
Speakers: Coercive Force and National Security - Brig. Gurmeet Kanwal
Air Power for Maritime Operations - Vice Adml I Bedi
Air Power in Limited Wars - Gp.Capt.TD Joseph

October 16

Session III : Aerospace Capabilities for our Defence-I

Chaired by Vice Adml KK Nayyar, Chairman, National Maritime Foundation
Speakers: Air Power and National Defence - Air Cmde Jasjit Singh
Trends in Defence Industry - Dr.Deba Mohanty
Joint Operations and Air Power - Brig.V.Anand

Session IV: Aerospace Capabilities for our Defence-I

Chaired by Air Chief Marshal S Krishnaswamy, former Chief of Air the Staff
Speakers: Integrating for Multipliers and Operations - Air Cmde Matheswaran
Planning for Effect-based Operations - Air Marshal TM Asthana
Building Space Capabilities for Defence - Sqn Ldr.KK Nair

Closing Session: Chaired by Air Chief Marshal OP Mehra, former Chief of Air Staff
Valedictory Address: Admiral Arun Prakash, Chairman of Chief of Staff
Committee and Chief of Naval Staff

2. National Seminar on “**Defence Spending and Force Modernisation: Challenges, Opportunities and Strategies for the coming Decades**” held at CAPS on December 10, 2005. This was Chaired by Marshal of the Indian Air Force Arjan Singh, DFC and Inaugural Address was delivered by Air Chief Marshal SP Tyagi, Chief of the Air Staff:

Session I: Asian Defence Spending and Arms Acquisitions

Chaired by Shri NN Vohra, former Defence Secretary

Speakers: Trends in Defence Expenditures - Wg.Cdr. VN Srinivas
Military modernization in China and Pakistan - Gp.Capt.TD Joseph

Session II : Defence Modernisation

Chaired by Vice Admiral KK Nayyar, Chairman of National Maritime Foundation

Speakers: Technology: The Perennial Topic - Dr.V.Sidhartha
Procurement Policy and Decision Making - Lt.Gen.BM Kapur

Session III: The Way Ahead

Chaired by General Shankar Roychoudhry former Chief of Army Staff

Speakers: Budgetary Reforms for Sustained Modernisation – Shri AK Ghosh
Defence Planning for Force Modernisation - Air Cmde Jasjit Singh

Closing Session: Chaired by Air Chief Marshal OP Mehra, former Chief of Air Staff
Valedictory Address: Admiral Arun Prakash, Chairman of Chief of Staff
Committee and Chief of Naval Staff

3. Seminar on “**Air Power in Low Intensity Conflicts: Parameters, Limitations and Operations**” held at CAPS on February 18, 2006.

Session I : Nature of Low Intensity Conflicts – An Overview

Chaired by Vice Admiral KK Nayyar, Chairman of National Maritime Foundation

Speakers: Sub-conventional conflicts/wars (insurgency to terrorism and militancy):the key characteristics - Brig.Gurmeet Kanwal
Peace-keeping and enforcement - Gp.Capt.RK Negi

Session II : Role of Military Power in LIC

Chaired by Lt.Gen. AM Vohra, former VCOAS

Speakers: Political goals and limits on use of military power in LIC - Dr.Rajesh Rajagopalan
Experiences in other countries - Lt.Gen. Chander Shekhar

Session III: Air Power in LIC

Chaired by Air Marshal SK Malik former VCAS

Speakers: Factors affecting employment of air power - Air Cmde Jasjit Singh
Toward an air power doctrine for LIC - AVM Tiwary

Papers presented at Fellows' Seminars held at CAPS

Wg.Cdr. V.N.Srinivas

Research Fellow

10.12.2005 Presented a paper on “ Trends in Defence Expenditure: India, China and Pakistan”

Wg.Cdr. S Kulkarni

Research Fellow

22.2.2006 Presented a paper on “Network Centric Warfare Capabilities of other countries”

Sq.Ldr. KK Nair

Research Fellow

18.3.2006 Presented a paper on “Examining Space Law and its Military Implications”

Scholars Engagements/Activities

AVM Kapil Kak

Additional Director

- 11.4.2005 Presentation on India-Pakistan Relations and Southern Asian Stability at the India-Australia Strategic Dialogue at the Australian Strategic Policy Institute, Canberra
- 23.4.2005 Presentation on Peace Process-The Way Forward at the Pugwash Conference on Intra-Kashmir Dialogue, Srinagar
- 4.5.2005 Talk on Future of Wars and Armed Conflict to IFS Probationers at the Foreign Service Institute, MEA, New Delhi
- 12.5.2005 Chaired seminar on State, Society and Economy in Central Asia at the Centre for strategic and Regional Studies, University of Jammu, Jammu
- 24.5.2005 Talk on Self Reliance in Defence to IFS Probationers at the Foreign Service Institute, MEA, New Delhi
- 25.5.2005 Talk on Lessons from Recent Wars to IFS Probationers at the Foreign Service Institute, MEA, New Delhi
- 28.5.2005 Chaired seminar on Security Studies-History and Development at the Centre for Strategic and Regional Studies, University of Jammu, Jammu
- 30.5.2005 Talk on Understanding India's Geopolitical Environment at the Management Development Institute, Gurgaon
- 6.6.2005 Talk to SOMC Level II on India's Security Challenges at the BSF Academy, Gwalior
- 16.6.2005 Talk to Senior officers (CORE Programme) on National Security Objectives and Current and Emerging Global Environment at the Army War Collage, Mhow
- 22.6.2005 Chaired seminar on State and Society in Pakistan at the Centre for Strategic and Regional Studies, University of Jammu, Jammu
- 28.7.2005 Talk on India's New Role in Asia at USI and National Security Council, Taiwan Dialogue, Taipei
- 22.8.2005 Chaired seminar on China's Strategic Engagement of Central Asia at the Centre for Strategic and Regional Studies, University of Jammu, Jammu
- 26.9.2005 Chaired seminar on Insurgency in J&K at the Centre for Strategic and Regional Studies, University of Jammu, Jammu
- 5.10.2005 Chaired Session on "India-China: The Territorial Question." Also Presentation on "India's Security Challenges (Regional and Internal Security)" at the University of Jammu HQ, 14 Corps Joint Seminar, Leh
- 23.11.2005 Panelist at session on Economic Globalisation Challenge for India's Security at the USI National Security Seminar, New Delhi
- 3.12.2005 Panelist at session on India-Pakistan Peace Process at National Security Seminar on India's Foreign Policy-Forum for Integrated National Security, Chandigarh
- 6.12.2005 Panelist on Peace Building commission-The Way Forward at the Frederic Ebert Stiftung sponsored seminar at United Nations, New York
- 23.12.2005 Chaired seminar on "Water Security or Security of Water?" at the Centre for Strategic and Regional Studies, University of Jammu, Jammu

- 5.1.2006 Presented Paper on “Education and Training of Future Aerospace Leaders” at the Joint CAPS-HQ TC Seminar on “Training Aerospace Leaders”, Hyderabad
- 25.1.2006 Chaired seminar on Pakistan’s Military and Islamisation at the Centre for Strategic and Regional Studies, University of Jammu, Jammu
- 20.2.2006 Chaired session on Jammu and Kashmir-Across the Border at the Centre for Strategic and Regional Studies, University of Jammu, Jammu
- 16.3.2006 Presentation on Security Dimensions-Possibilities of Engagement and Cooperation at the USI Seminar on India-Japan-Taiwan Trilateral, New Delhi
- 28.3.2006 Presentation on India-Pakistan Peace Process at the Centre for Strategic and Regional Studies Seminar on Building Peace in J&K, Jammu
- 31.3.2006 Presentation on “Strategic Aerospace Power” at the SASO’s Conference at Air HQ, New Delhi

Dr Manpreet Sethi

Senior Research Fellow

- 16.1. 2006 “New Face of Security: Missile Defence Rewrites Nuclear Strategies”, *Defense News*, USA
- 18.1. 2006 “Indo-US Civil Nuclear Cooperation Agreement: The Way Ahead”, Paper presented at Roundtable Discussion at Observer Research Foundation, New Delhi
- 26-27.3 2006 “Nuclear Energy and Non-proliferation”, paper presented at CSCAP Study Group meeting on WMD Proliferation, Singapore
- 14.2.2006 “Taking a Cue from China”, *Times of India*, New Delhi
- 01 Jan – 31 Mar 2006 Edited and produced *Nuclear Power – A Bimonthly Newsletter*: six issues -, vol 3, no.s 7-12

Gp.Capt. TD Joseph VM

Senior Research Fellow

- 15-16 Oct 2005 Presented a paper on “Role of Air Power in Limited Wars” at the 2nd Subroto Mukerjee Seminar held at New Delhi
- 10.12.2005 Presented a paper on “Military Modernisation in Chin and Pakistan” at the National Seminar on “Defence Spending and Force Modernisation: Challenges, Opportunities and Strategies for the coming decades held at CAPS
- 18.2.2006 Presented a paper on “Factors limiting wars in future” at CAPS

Sq.Ldr.KK Nair

Research Fellow

- 5.1.2006 Presented a paper on “ Developing Leaders for Managing Space Capabilities” at a seminar on “Aerospace Leadership” at College of Air Warfare, Secunderabad
- 26.2.2006 Presented a paper on “China’s Space Programme” at a Joint Seminar of Massachusetts Institute of Technology and Institute for Peace and Conflict Studies, New Delhi
- 27.2.2006 Presented a paper on “India’s Space Program” at a Joint Seminar of Massachusetts Institute of Technology and Institute for Peace and Conflict Studies, New Delhi