



# MITAA NEWS

## BANGALORE

VOL. 13: No. 1

(FOR PRIVATE CIRCULATION ONLY)

JAN – MAR 2007

*“Success is never permanent and failure is never final”*

### A Word from the President



Dear Co-Alumnus,  
Season's Greetings.

Warm wishes to all the members and their families. I start off this newsletter with the hope that the New Year would have brought happiness and wealth to all your families. As you read through this newsletter, you will notice that as usual the association is busy in continuing to execute the regular events at regular intervals. The main point of discussion, with which the EC had been engaged during this period, was to finalize a programme to assist needy students studying in MIT. This has been named the Refundable Education Assistance Program (REAP). The details are given elsewhere inside this newsletter. The EC had formed a sub-committee to draft the guidelines and procedure. Their recommendation was approved by the EC in their meeting held on 9.3.2007. I request all the alumni members to donate liberally for this program and to pass on the information to the co-alumni, with the same request.

It is planned to hold the AGM for the year in July 2007. It has been proposed to have the same coupled with a family get together at a picnic spot nearby. Members are requested to forward their place of choice for a one-day picnic.

I sign off by informing that I will be laying down my office along with the other office bearers during the AGM as I am officially moving to Delhi. I thank you all and the executive committee for the ready cooperation and assistance given to me during my tenure as President. I wish all the members, their families, and the new office bearers of the Chapter a great time ahead.

And With kind regards,  
Sincerely yours,  
CU Hari  
cuhari@hotmail.com

**Family Get-together and the next Annual General Body meeting will be held in July 2007. For further details, please visit [www.mitaabc.org](http://www.mitaabc.org)**

*This newsletter is sponsored by Sri.V.L.Swaminathan,T1465/Elcs, who has dedicated it to growth of friendship.*

BOOK-POST

TO

*If undelivered please return to* MITAA - BC, AeSI Building, Suranjandas Road,  
New Thippasandra Post, BANGALORE - 560 075

## MEETINGS



### EXECUTIVE COMMITTEE MEETINGS

The Executive Committee met regularly on the second Friday of every month.

## EVENTS



### ★ Lecture by Dr Brahmananda Panda

An evening technical lecture was arranged on 30 Dec 2006. It was presented by one of our MIT alumuni from the 26<sup>th</sup> batch, Dr Brahmananda Panda, Associate Technical Fellow, Rotorcraft Division, Boeing Company, USA. The topic of the lecture was “Active Controller For Comanche Air Resonance Stability Augmentation at High G Maneuver”. The abstract of the lecture and the profile of the speaker are given below.

During flight-testing of Boeing-Sikorsky RAH-66 Comanche prototype aircraft pilots occasionally noted an undesirable roll response during aggressive high load factor maneuver. It was referred to by the Comanche community as Regressing Lag Mode (RLM) oscillation. It was caused by coalescence of the body roll mode with rotor RLM mode known as air resonance. Flight test data reduction showed RLM damping marginal during sustained high load factors. An active controller was designed to augment the air resonance stability. The controller was successfully flight-tested on the RAH-66 demonstrator aircraft. The active feedback scheme was simple and cost effective to implement as flight control software, using existing flight control hardware (Body pitch and roll rate signals) were used to calculate swashplate control inputs that enhance rotor damping.

The RCAS computer program (Rotorcraft Comprehensive Analysis System) was used to perform the detailed

design of the active feedback. Extensive correlation was first performed between RCAS and the baseline aircraft for key flight conditions. Several feedback designs were developed and the best were selected for flight-testing.

Dr. Brahmananda Panda’s expertise is in the area of rotorcraft aeromechanics methodology and its application to rotor dynamics, loads vibration, aeroelasticity and controls. Dr. Panda is an Associate Technical Fellow at the Boeing Company. He has 26 years of technical experience at Boeing (Philadelphia), MDHC, KAMAN and NAL. He got his doctorate from University of Maryland Rotorcraft Center of Excellence in 1985; M. Tech. from I.I.Sc. (Aeronautics and Astronautics) in 1979; and B. Tech (Aero). from MIT in 1977.

Dr. Panda has been involved in developing the theoretical basis, software design, and validation of rotorcraft comprehensive analysis codes such as Army’s Rotorcraft Comprehensive Analysis System (RCAS) and University of Maryland Advanced Rotorcraft Code (UMARC) and Boeing TECH-02 rotor analysis, key tools for solving complex rotorcraft problems. He has applied comprehensive analysis tools to design and solved complex aeromechanics problems for Boeing products (CH-47, RAH-66, AH-64, V-22) and new designs concepts (Heliwing UAV, SASTIP rotor, Apache rotor blade etc.) as lead dynamist. His well-known work includes solving the Comanche air resonance problem at high g’s maneuver seen during flight testing (2003), limit cycle problem during Comanche wind tunnel testing (1992-93) using his developed comprehensive analysis tools.

Dr. Panda has more than 20 publications including 3 best AHS dynamics session papers (2004, 1999, and 1995). He published in the area - bearingless rotors, composite blade dynamics, fluidlastic & elastomeric damper, aeroelastic stability,

Optimization applied to rotor blade design and rotorcraft methodology development.

Dr. Panda has been an American Helicopter Society and AIAA member since 1982 and has served on the AHS Dynamics Technical Committee (1966-69, 2005-current).

## PROFILES

### SPONSOR



Sri.V.L.Swaminathan, DMIT/1465/EIcs, graduated from St Joseph's College, Trichy in 1962. He fondly recollects that his Principal, Rev Fr Ehrhart there expanded his initials,VLS, as Very Lazy

Swaminathan, but we can tell you he is very far from that. He passed out of MIT in 1965 from the Electronics faculty and proceeded to BITS, Pilani, from where he obtained his Masters degree. He served that Institute for 4 years before joining the ISRO in Space Applications Centre, Ahmedabad.

In May 1971, VLS joined the Satellite Instructional Television Experiment (SITE) Program – a pre-cursor to the now popular DTH telecast. He contributed to the systems design and development of DRS receivers. After the successful inauguration of SITE in Apr '74, VLS moved to the Remote Sensing Area activities. He was involved in the design and development of IRS Data product system. Under NNRMS program, in Nov '82, he was transferred to ISRO HQ Bangalore. He has contributed to the establishment of Regional Remote Sensing Service Centres, the Bangalore unit being at Kadirenahally Cross

With a view to share his expertise with student community, VLS availed voluntary retirement from ISRO in July 1994. In his own words, VLS is a NRM ( non resident madrasi)

settled in Bangalore. After his VRS from ISRO, he joined the faculty in SJC Institute of Technology Chickballapur as well as Dayananda Sagar Institutions and taught undergraduate students the subject of electronics and communication engg. Continuing in this field but expanding his reach to students of other countries, Sri.Swaminathan took up teaching assignments in Sarawak, Malaysia at INTI College, Sarawak Kuching and Multimedia University, Melaka, Malaysia. Our patron PNHS Mani and VLS were together at INTI. He returned to Bangalore in July 2002 and has ever since shown great interest in the activities of the Bangalore Chapter of MITAA.

Sri.Swaminathan has a phenomenal record of “world is small experiences” and loves connecting people with their batchmates / contemporaries / relations. All his students and friends acknowledge his memory capabilities, which are phenomenal. When Sri Bala was listed to be featured as an Eminent MITian, in this issue of the newsletter, Sri.Swaminathan acknowledged it by sponsoring the newsletter and dedicates this publication to the growth of friendship. He had requested that his photograph be not carried in the news letter “as that space can carry more useful and interesting information” but we did not want to deviate from our normal practice and tradition and so we have included his photograph here.

Mr Swaminathan is blessed with an understanding wife and two children. The elder, Ms Anuradha Sridhar, is settled in Kuala Lumpur Malaysia. The younger, Balaji is happily settled in Bangalore. In Nov '04, VLS obtained his domestic promotion, on being blessed with a grand daughter, Nimisha.

In Bangalore he lives in #503, 13th.Cross, 9th.Main, ISRO Layout, Vikram Nagar, Bangalore-560 078. His res. Tel.no.is 26662790 and he can also be contacted on 9241107578. His e-mail ID is swaminathanvl@gmail.com

We thank Sri.Swaminathan for coming forward spontaneously and sponsoring this newsletter and express our sincere appreciation of the spirit behind this gesture. We wish there would be more Swaminathans.

## EMINENT MITIAN



Sri. K. Balasubramanian, DMIT / 1442 / E I c s graduated from MIT in 1965 with flying colours, marginally missing the topper position. He had his early education in Madras and obtained his

B.Sc degree from Loyola College. Being a Madras city resident, at MIT he was a day scholar. Sri.Balasubramanian started his professional career as an Entry Level Engineer in Bharat Electronics, Bangalore and stayed in Ganesh Lodge as most of the DMIT's did then.

However the spirit and the hunger in him for higher knowledge and achievement took him to University of Rhode Island, USA from where he obtained his Masters in EE. Sri.Bala then joined Texas Instruments (TI) in 1969 as a Design engineer and rose to the top position of Sr Vice President. During his tenure in that Company he held many different positions; the last two being the President of TI Japan and Chairman of TI Japan. He was selected as one of the top 100 business leaders in Japan in 2003.

Reminiscing his early days in Texas Instruments, Sri. Bala says, "I was one of the first guys to start work on MOS (Metal Oxide Semiconductor). We started working on a one-chip calculator in 1971. During 1971 and 1972, we started putting all kinds of logic and I/O buffers on them." That was the beginning of countless projects, challenges and successes in a 37-year career that came to a close with his retirement on Oct. 1 2006. In 1978, he moved out of MOS design to lead all integrated-circuit design and development

for Texas Instrument's Consumer Products Group. And in 1983, Bala was elected a corporate vice president and named division manager for TI's Programmable Products Division, the precursor to the current Applications Specific Products (ASP) organization. In 1994, he was named a senior vice president. Before assuming the top position in TI Japan in 2002, Bala served as the subsidiary's chief operating officer. He spent the major part of his TI career in the Semiconductor Group, managing Manufacturing Capability Development, Silicon Technology Development, Worldwide Facilities, Worldwide Procurement & Logistics and Quality. He also led TI's prestigious Kilby Center.

K. Bala has contributed to TI through a wide variety of assignments, from design engineering and business management, to procurement and process development. In the words of Rich Templeton, President and Chief Executive Officer, TI, "In every assignment, he (K.Bala) has been known both for his intensity and willingness to make difficult decisions, as well as for his concern for TI people. He 'raised' many of TI's current leaders, including me, and we thank him for the many ways he has shaped TI in becoming a more successful company."

In a fitting honour and as an expression of their appreciation and gratitude, Texas Instruments has named an award in his honour for budding and talented Indian students. Texas Instruments has been conducting a Science and Technology competition for high school students. And from December 2006, the regional winners of this competition will be given the "K BALA" award and the national winner will be given the "JACK KILBY" award. "This is a great honor for me" says Sri.Bala and we are wholeheartedly with him in this. This indeed is a great honour for Sri.Bala.

As a young student in MIT, Sri.Bala used to interact with fellow batchmates and maintained good relationship with them. He

had a very humane approach towards his classmates, winning appreciation from all his batchmates. He had carried forward this trait of his, throughout his life. He made it a point to spend a lot of time with his mother during his visits to Chennai, even if it be on business, not to speak of the time he spent with her during his private visits. Sri Bala's sister is married to his batchmate, Sri P K Rajasekaran. (Incidentally, it is of interest to note that in the 14th batch, there was another MITian b.i.l's, Aadhimoolam and Natarajan. There have been MITian b.i.l's in earlier batches also but they spanned two different batches). Sri Bala keeps in touch with his batchmates and had hosted a mini-gettogether for them, when he was in Bangalore, some time ago, participating in the Silver Jubilee celebrations of TI Bangalore.

Sri Bala is blessed with a son and a daughter; both are well settled; His daughter, Vidya is an Intellectual Property Lawyer with degrees in chemical engineering and Law. His son, Rajiv is an EE/Economics major, now working for Texas Instruments. Sri Bala and his wife, Rama are now settled in Houston and can be reached at k.bala05@gmail.com.

## NEWS ABOUT OUR MEMBERS AND THEIR FAMILIES



| Name & T.No.                   | New Address/Tel.No.  |
|--------------------------------|--|
| Sri.K.Tamilmani<br>T24119/Aero | Off: 25220685  |
| J Ravishankar,<br>T26332/Elcs  | Res: #303, K.T.Apts.<br>No.13. 17-A Cross,<br>11 <sup>th</sup> .Main, Malleswaram,<br>Bangalore-560 055<br>Ph: +91 80 2334 2275<br>M:98459 41899 |

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Between 9th & 11th Cross  
Bangalore-560003.  
PH: +91 80 2346 0460  
: + 91 80 2331 2650

### ❖ SUBSCRIPTION

Alumni who have made the contributions towards the REAP fund for sponsoring needy students at MIT.

Shri V Gopalakrishnan, T22058, Elecs

### ❖ WEDDING BELLS RANG FOR

Shri Peter Arun, Sc D, CEMILAC, T No 46115, BTech(Aero), who married Ms. Julie Alex on 9 Feb 2007 at St Patricks Church, Chennai

Shri Venkatasubramanian, 47<sup>th</sup> batch aero, working in ORACLE, who married Ms. Deepti on 29 Jan 2007 at Calicut

We wish the couples a happy and prosperous married life, with pink of health everyday, all the days.

### ❖ OBITUARY

Sri.S.V.Krishnan, DMIT/741/Elcs passed away in Chennai on 15<sup>th</sup> Feb.2007. He was born on 16<sup>th</sup> April 1935 and hails from Kozhikode. Graduating in Physics from Pachaiappa's College, he joined MIT in 1955. After passing out of MIT, he joined his father, Sri.Venkatachalam Iyer, in their family business as construction engineers in Coimbatore. However, being a connoisseur in music, he organized chamber concerts in Coimbatore, where in 1974 he had constructed an auditorium, Ragasudha, with excellent acoustics. Later, in 1993, he shifted to Chennai. Here side by side his construction business, Sri.Krishnan

continued his interest in music by giving encouragement to up coming artists in Naada Inbam, an organization which he had founded for the express purpose of encouraging young talent, with a missionary zeal. Initially he held concerts in his house or in Sastri Hall in Mylapore. In 1997, he constructed the Ragha Sudha Hall in Mylapore, where a good number of concerts featuring young and talented artists/musicians were held. The world of Classical music will miss him and begs the question as to who will now come forward to encourage young talent/musicians.

Sri.Krishnan is survived by his wife, Vijayalakshmi, son, Rajaraman and daughter, Jayalakshmi. They live in 85/2,Luz Avenue, Mylapore, Chennai-600 004. May the departed soul rest in peace in Heaven and May the Lord give strength to the family to stand this loss.

### **REAP – AN APPEAL TO ALL MEMBERS**

Our Alma matter 'MIT' is an inseparable part of all MITians. It is the heartfelt desire and Ernest endeavour of every alumnus to give back something substantially to his/her Alma Mater. Quite often, he/she is not clear as to how and in what way it can be done. We are sure, similar sentiments will be prevailing with and going through the minds of many of our members. For a long time MITAA-B was of the opinion that it should extend some form of assistance to the alma-mater. Initially it planned to donate books to the library and later made some initiative to build a book bank. However, after MIT becoming a part of Anna University, these assistances lost their relevance. Hence it has been decided to create a fund to provide financial assistance to needy and deserving students studying at MIT. You may be aware that two of our members have been funding the tuition fees for two students in MIT for the past two years, on a specific request from Parent Chapter, which in turn had received the request from the Dean. The Parent Chapter and the Singapore Chapter are funding two students each. This would be a recurring feature and is an opportunity for us to give back to our Alma Mater something that will benefit the students and the Institute.

Keeping this in mind, the executive committee formed a sub-committee to go into all aspects of such a fund. They have submitted their report, after studying all aspects involved. This has been approved by the Executive Committee and will be put up to the forthcoming AGM. Briefly stated, this would be Refundable Educational Assistance to needy students, who would be identified by the Dean, MIT and the Parent Chapter. Certain criteria for eligibility, like he/she should be a full time student of MIT for any of the courses offered by MIT, should not be employed any where, should have a family financial background that deserves assistance and should have an academic performance deserving assistance as per assessment by the Dean of MIT. This assistance will be in the form of interest free loan to the student. The idea behind making it refundable is that the fund will be available to more students on rotation and that the student who benefits will take it seriously and will help in funding more students.

### **❖ MOVEMENTS**

•Sri.C.U.Hari, DMIT/2102/Aero, Scientist G, DRDO took over as Director in the Directorate of Aeronautics, DRDO headquarters in New Delhi on 01 Feb 2007. He was earlier in ADE, Bangalore as Controller of Administration.

•Sri.K. Tamilmani, DMIT/24119/Aero, Scientist G, DRDO took over as Director, Centre for Military Airworthiness and Certification(CEMILAC), DRDO, Bangalore on 01 Jan 2007. He was earlier the Director, CABS, DRDO, Bangalore

We wish them every success in their new assignments.

Ideally for such schemes, a corpus fund should be created and payment should be made from the interest earned thereon. In order to create such a Corpus Fund, it is proposed.

To approach our members and other interested and philanthropic persons for donations to be collected throughout the year, as an ongoing programme.

2. An annual voluntary donation from every member of the executive committee and office bearers.

3. These funds will be maintained separately but will very much form part of the funds of the Chapter.

It will also be ensured that the student would be in regular contact with MITAA-BC and keeping the Chapter informed of his/her contact address, email ID and phone number regularly.

The Executive Committee of MITAA, Bangalore Chapter **appeals** to all Members to contribute to this fund liberally and speedily and be a **proud part** of this worthy assistance programme, remembering with gratefulness all that our Alma Mater has given us. The contributions made to this fund will be acknowledged and names of the Donors will be published in our News letter and also in our Website [www.mitaabc.org](http://www.mitaabc.org)

## NEWS FROM PARENT CHAPTER AND CAMPUS

### ➤ NEWS FROM PARENT CHAPTER

■ The Parent Chapter had arranged a get together for the members and their



Sack Race for the "young at 60-65"!!

families on 4<sup>th</sup>.Feb 2007 in the Alumni Club, Chennai. MIT Alumni Association completed 40 yrs in Oct last.

■ An International Conference and Pre-conference Tutorials on Signal Processing, Communication and Networking (ICSCN) were held in Rajam Hall, MIT Campus from Feb 22<sup>nd</sup> – 24<sup>th</sup> 2007. The Conference was inaugurated by His Excellency the President of India, Dr.A.P.J.Abdul Kalam on 23<sup>rd</sup> Feb.

The event was presided over by His Excellency the Governor of Tamil Nadu, Sri Surjit Singh Barnala, Chancellor of Anna University.

■ The MITAA Website- [www.mitaa.org.in](http://www.mitaa.org.in)- contains a fund of information, such as details of Alumni, job requirements and the like. It is developing to be a source of information for exchange and mutual benefit of our Alumni. To access the details you have to register yourself, which can be done by following instructions seen as soon as you as open the website. Please do register, if not already done and visit it as often as possible. You can also put your message in the message board. This could turn out to be a universal vehicle for keeping in touch with co-alumni anywhere in the world, wherever you may be.

### ➤ NEWS FROM OTHER CHAPTER

Singapore Chapter has brought out its Newsletter SMITAAZINE Vol.10 Jan-Feb 2007. It is as interesting and full of news as always. It can be seen in their website [www.smitaa.org](http://www.smitaa.org). The e-mail ID is [smitaazine@yahoo.com](mailto:smitaazine@yahoo.com)

## FOR THE KIND ATTENTION OF MEMBERS

Those who have not paid their subscription are, hereby, requested to do so at the earliest. Members may send their subscriptions by a cheque drawn in favour of "Madras Institute of Technology Alumni Association, Bangalore Chapter" to MITAA - BC, AeSI Building, Suranjandas Road, New Thippasandra Post, BANGALORE 560 075.

PLEASE SEND THE ONE TIME PAYMENT OF Rs 2000 AND AVOID THE INCONVENIENCE OF PAYING Rs. 200 EVERY YEAR.

Also, newsletters and directory of members are being uploaded in our web site. Members are requested to view the membership directory and provide the

feedback regarding the changes and addition of the members whom you are in touch with. The web address is [www.mitaabc.org](http://www.mitaabc.org). Any change/discrepancy in the directory of members can be emailed to the secretary Shri V Narayanasamy ([vns@infoscript.soft.net](mailto:vns@infoscript.soft.net)) who is maintaining the web site.

All the alumni are requested to provide information regarding the achievements of the self and family members for coverage in the newsletter for information and inspiration to others.

Members are requested to provide the information about the publications and participation by presentation of papers in the national and international conferences for coverage in the Newsletter.

**Executive Committee**

**Completion of 40 years of MITAA  
Get together at Chennai on 4<sup>th</sup>.Feb 2007  
Pictures: Courtesy Sri.V.L.Swaminathan T1465**



Sapthapathi

Buddys game start

