



# MITAA NEWS

## BANGALORE

VOL. 15: No. 2

(FOR PRIVATE CIRCULATION ONLY)

APR- JUN 2009

*" Without your involvement you can't succeed. With your involvement you can't fail"*  
*Dr. Abdul Kalam.*

### *A Word from the President...*

Dear Co Alumnus  
Seasons Greetings.

I wish to bring it to your notice that the REAP Fund started by our Chapter is benefiting two MIT students every year and the details of beneficiaries of last academic year are given inside this Newsletter. To commemorate the Diamond Jubilee celebration of our Almamater, we are planning an event in AeSI, Bangalore on 19<sup>th</sup> Jul 09 with the theme "My experience with MIT". I request all members to attend without fail and also to pass on this information to as many Alumni members as possible, so that our Alumni members can attend the function in large numbers and share their experiences and make the event a memorable one.

I am thankful to Shri KV Bhima Rao, for sponsoring the previous issue of Newsletter and Shri Velvendan for sponsoring the

present issue of the Newsletter.

We are planning to hold AGM of our Chapter on 09 August 2009 and looking forward for the participation of all our members. "Auto focus 09 seminar" is being planned to be organized during Oct 09. You are all requested to forward your idea/views at the earliest so that the same could be considered for making the seminar a grand success.

With warm regards,  
V Gopalakrishnan  
v\_gkrishnan@yahoo.com  
Fax No. 080 25025162  
Ph: 9980099011

**Next Annual General Body meeting will be held on 09 Aug 2009. For details, please visit [www.mitaabc.org](http://www.mitaabc.org)**

**This newsletter is sponsored by Sri R. Velvendan, T. 45122/Aero**

**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



Following our usual practice, no events were scheduled during this period since members were busy with childrens' exams and vacationing. However, the Exec.Com deliberated and planned the future events to be held. The events planned and time frames are:

1. AGM on 9<sup>th</sup> August 2009
2. Diamond Jubilee celebrations: Evening function on 19<sup>th</sup> July 2009 and a full day mega event in Oct/Nov 2009
3. A National Seminar on Automobile Engineering, Autofocus 2009, on 23<sup>rd</sup> Oct 2009 and
4. Teachers' Day in Sept 2009

## PROFILES

### ★ EMINENT MITIAN

**Professor Ravi-Chandar**, T 25117/Aero, after completing his B.Sc. (Physics) in May 1973 from Bangalore University received his degree in Aeronautical Engineering with first class honours from MIT in 1976 and his Masters and Doctoral degrees in Aeronautics from the California



Institute of Technology in 1977 and 1982 respectively. Starting his professional career in California Institute of Technology in 1982 as a Research Fellow, he switched to an academic career joining as Assistant Professor, University of Houston, Houston, Texas in 1983, became Associate Professor in 1988 and Professor in 1995. He worked in this post till 2000, when he moved to the Department of Aerospace Engineering and Engineering Mechanics at the University of Texas at Austin where he is currently the Temple Foundation Professor. During this period Dr Ravi Chandar was Guest Scientist, Fraunhofer-Institut für zerstörungsfreie Prüfverfahren, Saarbrücken, Germany (1991), US AFOSR Summer Faculty Research Associate, Phillips Laboratory, Edwards Air Force Base, California (1992, 1994) and Visiting Scholar, University of Texas at Austin (1999).

Dr. Ravi-Chandar's research interests lie in the general area of mechanical behaviour of solids, structures and materials. His current thrusts are in the areas of dynamic fracture, inelastic mechanical behaviour of metals, polymers and composites, and wave propagation, friction, fragmentation and other fundamental phenomena. While interest in these problems is motivated by their enormous practical importance, the focus of the research is on the generation of a fundamental understanding of the way in which materials deform and fail. This requires a well integrated experimental and theoretical study, conducted at different spatial and temporal resolution. Accordingly, his laboratory facilities are specially designed and built, and geared toward performing experiments to elucidate these characteristics of material behavior. Dr. Ravi-Chandar's scholarly contributions are well recognized by his peers; he has a large number of publications to his credit in US and International Journals. His book *Dynamic Fracture* was published by Elsevier in 2004 and has been well-received. He has also

presented numerous plenary and keynote lectures at national and international conferences. He has also been a consultant to a number of companies dealing with problems of structural integrity.

He has won many an award starting with First Prize for Academic Proficiency at MIT in 1974, 75 and 76, the GALCIT Wind Tunnel Fellowship, California Institute of Technology in 1976-77, the Ernest Sechler Memorial Award, California Institute of Technology in 1981, the Junior Faculty Research Excellence Award, Cullen College of Engineering, University of Houston in 1988 and the Murray Medal, of the Society for Experimental Mechanics in 2004. He is a Fellow of the American Academy of Mechanics, the Society for Experimental Mechanics, the American Society of Mechanical Engineers and the International Congress on Fracture.

He has been the **Editor-in Chief** of International Journal of Fracture since 2000, and has been on the Editorial boards of Experimental Mechanics, Mechanics of Time Dependent Materials, Mechanics of Advanced Materials and Structures, and the Journal of Applied Mechanics, He has also been associated with many National and International committees, as Member and Chairman of the Executive Committee of the Applied Mechanics Division of the American Society of Mechanical Engineers, Executive Board of the Society for Experimental Mechanics. He was a Director in the Society of Engineering Science and the International Congress of Fracture, Co-Chairman, 10th International Conference on Fracture, Hawaii, December 2001 and Vice-President of the International Congress of Fracture (2001-20005). He is at present the Chairman of the International Advisory Board for Experimental Mechanics, President, International Congress of Fracture (2005-2009), and a member of the US National Committee of Theoretical and Applied Mechanics.

**His contact address is Dr. Krishnaswamy RAVI-CHANDAR**, Department of Aerospace Engineering and Engineering Mechanics, University Station, C0600 The University of Texas at Austin, Austin, Texas 78712-0235, USA  
Tel. (512) 471-4213, Fax. (512) 471-5500  
**E-MAIL:** [kravi@mail.utexas.edu](mailto:kravi@mail.utexas.edu)

### ★ SPONSOR

**Shri R. Velvendan**, T. No. 45122 Aero was born on May 14, 1972 in a place Andiyappanur near Alangayam in Tamil Nadu Mr. D.Ramamurthi and Mrs. R. Kasthuri. He has 2 elder brothers and 1 elder sister. He did schooling from Ramakrishna Hr. sec school and B.Sc (Mathematics) from Sacred Heart College, Tirupattur in the year 1993. Subsequently he completed Production Engineering from Madras Institute of Technology, Chrompet in 1996. He was campus recruited by TVS, Madurai & served up to Feb 18, 1998. Meanwhile he completed MBA (Mktg) by 2004.



He is married to Ms. Parimala, a graduate and they have 3 year old son Master V. Bhupesh.

He also completed his M.Tech (Aeronautical) from MVJ College of Engineering, Bangalore and presently working as Engineer in HAL Helicopter Division and residing in B.Narayanpura, Bangalore. His contact is R: 080-25600449, M: 9880846748, E-mail: [velvendanr@yahoo.com](mailto:velvendanr@yahoo.com).

## **NEWS ABOUT OUR MEMBERS AND THEIR FAMILIES**

### **❖ WELCOME**

We extend a warm welcome to Mr. CU Hari back to our Bangalore chapter. He has retired as Director, Directorate of Aeronautics, DRDO HQ, New Delhi and has taken over as Director, Administration and Contracts, ADA, Bangalore from 01 June 2009 onwards. He is residing in E15/5, DRDO Township, Phase-1, CV Raman Nagar, Bangalore 93.

### **❖ DIRECTORY UPDATE**

Mr J Padmanabhan  
9620232451

Mr Selvam George  
5E serpraise  
Print Point Campus  
42(P), Electronic City- East Phase  
Bangalore-560100

Peter Arun moved into #B001, Chitrakut Environs, Ramesh Nagar, Vibhuthipura, Bangalore

Smt Anitha Alexandra moved into Natania Nivas, #B107, Chitrakut Environs, Ramesh Nagar, Vibhuthipura, Bangalore

### **❖ SUBSCRIPTION**

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

Shri K Venkatasen, T763, Elecs, Rs 2000/-

### **❖ WEDDING BELLS rang for**

Chi Srinagesh, s/o Smt & Sri V.Gopalakrishnan, T22058/Elcs and Sow Preethi, who were married on 30<sup>th</sup> April 2009 in Bangalore.

Chi Srivatsa s/o Smt & Sri S.Desikamani,

T1137/Elcs and Sow Naman, who were married on 18<sup>th</sup> June 2009 in Bangalore.

We wish the newly wedded couples a happy and prosperous married life with pink of health every day, all the days.

### **➤ NEWS FROM PARENT CHAPTER & CAMPUS**

★A 40-kg micro satellite ANUSAT, the co-passenger of RISAT2, has been built by the students of MIT, Anna University, to demonstrate the technologies related to message store and forward operations. ANUSAT, the first built by an Indian University, is a 'store-and-forward' communication satellite that will help transfer confidential academic material and also monitor drought and wasteland, urban planning and other studies. It was designed and executed with the help of ECE and Aerospace Engineering students and Dean and lecturers of MIT.

Indian space agency ISRO's workhorse, PSLV-C12 rocket soared majestically into a clear sky at 6.45 am on 20th April 2009 from the spaceport in Sriharikota and placed its first Radar Imaging Satellite (RISAT2) and micro-educational satellite ANUSAT into orbit about 19 minutes later in a textbook launch. A jubilant ISRO Chairman G. Madhavan Nair said "the year 2009 has started off well. The final moments of the launch were more thrilling than a cricket match as we hit a few boundaries and bowled some googlies." Mr. Nair said the performance of the PSLV-C12 launch vehicle was "precise and on the dot."

He added: "Again, we have set a record. As in the past, we declared the launch date, time and we made it happen." ISRO's chief spokesperson S Satish said, "This is the first time we are launching a satellite made by students and the idea is to motivate the younger generation to work for India's space missions," ISRO officials said the agency has been promoting the development of micro-

satellites at universities to familiarise students in critical areas like structures, thermal management, controls, guidance, power systems, command and data handling and communications. Chennai's Anna University, of which the Madras Institute of Technology is an affiliate, was the first institution in India to seriously take up ISRO's offer to design and develop a micro-satellite. IIT-Mumbai and IIT-Kanpur are also in the process of designing and developing micro-satellites.

As per Prof. R Dhanraj, MIT, one of the chief architects of the project, the satellite will operate in the low earth orbit at an altitude between 600 and 800 km. It is equipped with a "store and forward" payload and the data will be received both at the Chennai Tech University as well as Pune University. The satellite will mainly be used for amateur communication purposes, providing students with a hands-on experience about space sciences and technology.

The Anusat programme was initiated in 2002 and the cost of the project, close to INR 5 Crores, was funded by ISRO. It will have a lifespan of one year.

This is the 15th flight of PSLV, which has so far launched 30 satellites 14 for India and ANUSAT and 16 for other countries since 1993. PSLV had also launched the Chandrayaan-1 spacecraft on October 22, 2008.

★ Nine teams from different parts of India participated in a two-day programme organised by DRDO as a part of DRDO Golden Jubilee Celebration Student Competition in Bangalore during June 2009. The team from MIT was awarded a consolation prize while the first and second prizes went to Thapar University of Patiala and IIT, Madras respectively. Dr Prahlada, Chief Controller of DRDO, on the occasion, said this programme was aimed to bring students closer to DRDO labs. The prizes were given away from Prof Rodham Narasimha

### ★ Information received from Sri C.V.S.Gopalan, Treasurer, Parent Chapter

The following MIT students received AMITA TRUST scholarship for the year 2008-09. IRS 13,000 was paid to each candidate. Money has been paid to them by cheque and receipts obtained. We have obtained their photographs and permanent addresses which will be maintained in AMITA TRUST records.

1. **Mr. G Sudhakar** Regn No. 2005 3255 BE, ECE, 29B SITHI VINAYAGAR KOIL STREET, MADAPPURAM, Thiruvapur 610001.  
e-mail: [tamizhsudhakar@gmail.com](mailto:tamizhsudhakar@gmail.com)
2. **Mr. R Swaminathan** Regn No. 2005 3532 B.E ECE, New No. 59 Murthy street Extn., West Mambalam, Chennai 600033  
e-mail: [rsn\\_1087@yahoo.com](mailto:rsn_1087@yahoo.com)
3. **Mr. A C Satishkumar** Regn No. 2006 3751 B.E. CSE, 19, Anaikkal Palayam, 46L Pudur, P.O, Erode-638002.  
e-mail : [acsatishkumar@gmail.com](mailto:acsatishkumar@gmail.com)

### Scholarship sponsored by Bangalore chapter Alumni association

4. **Mr. R Kabilraj** Regn Number 2007 3424 B.E Electronics and Instrument Technology. S/O Mr. T Ranganathan, 2/221 Thusur Vilklage Post, Namakkal 637001 e-mail : [rkabilrag@gmail.com](mailto:rkabilrag@gmail.com)

### Scholarship sponsored by Bangalore chapter Alumni association

Scholarship amount credited to Indian Bank, MIT Campus A/C 744182347

5. **Ms Suganthi** Regn Number 2007 3616 B.E Rubber and Plastic Technology, D/O S Manivelan, 43/142 D.M.M Renganathan Street, Kurinji Nagar, Bharathi Puram, Dindugul-3, e-mail [sugnathgirpt@gmail.com](mailto:sugnathgirpt@gmail.com)

**College fees for students joined till 2007 was IRS 13,000 hence IRS 13,000 was the scholarship amount. College fees revised to IRS 15,000 for students joining in 2008 and hence Scholarship amount revised to IRS 15,000 for students joining from 2008**

6. **Mr. Vignesh T** Regn Number 2008 3259  
B.E E & I, 11/16 , Kommandiamman Koil Street, Vadasery, Nagerkoil 629001  
e-mail [vigneshmit1@rocketmail.com](mailto:vigneshmit1@rocketmail.com)

**Scholarship sponsored by Singapore chapter Alumni association**

7. **Mr. Prakash D** Regn Number 2008 4641  
B.E Computer Science, 4/202 E Anna Nagar, Reddy Patti P.O, Namakkal 637001  
e-mail : [prakshdharmaraj@gmail.com](mailto:prakshdharmaraj@gmail.com)

8. **Mr. K Vinoth Kumar** Regn Number 2008 4804  
B.E Rubber and Plastic Technology, 13, V.O.C Street, Gandhi Nagar, Virdachalam T.K, Cuddalore 606 001  
E-mail : [kvinods602gmail.com](mailto:kvinods602gmail.com)

9. **Mr. R Satish Kumar** Regn Number 2008 2644  
B.E Production Technology, 3/121 North Street, Valayapatti, Namakkal Dt  
e-mail [satish44@gmail.com](mailto:satish44@gmail.com)

10. **Mr. K Sakthivel** Regn Number 2008 2434  
B E Automobile, 10, Govindaswamy Layout, Chokkapudur Road, Coimbatore 1 Tel No. 0422-2470957

**Scholarship sponsored by Mr. K.Krihnamurthy T No. 1420**

11. **Ms Dhivyapriya** Regn Number 2008 0732  
B.E ECE, 40, Kailasanathar Koil Street, Attur Taluk, Salem 636012  
Tel No. 09787966671

**Scholarship sponsored by Singapore chapter Alumni association**

12. **Mr. R G Matheswaran** Regn Number 2008 2318  
B.E Aeronautical, 3/413

Rajapalayam Koppompatty, Thuriyur Taluk, Trichy-621012  
Tel No. 09245791649

13. **Mr. A. Dinesh** Registration Number 2008 0223  
Instrument Technology, No. 3, Ottaroor Street, Nallagoundan Palayam, Gobichettypalayam, Erode  
e-mail [dindinesh28@gmail.com](mailto:dindinesh28@gmail.com)

**Scholarship sponsored by Mr. P Chnadrasekar T No. 1276**

**IRS 1,85,000 ( Indian Rupees One hundred and eighty five thousand) has been paid as scholarship to deserving MIT students during the period 1st April 2008 to 31st March 2009.**

**AMITA TRUST corpus fund has close to IRS 25,000,00 against the targeted amount of IRS 60,000,00 as of 6<sup>th</sup> June 2009**

***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”**. PLEASE SEND THE ONE TIME PAYMENT OF Rs. 2,000 AND AVOID THE INCONVENIENCE OF PAYING Rs. 200 EVERY YEAR.

## **Educational Assistance Programme, An appeal to all members**

Our Alma matter 'MIT' is an inseparable part of all MITians. It is the heartfelt desire and earnest 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-BC 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 few 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 presents an opportunity for us to give back to our Alma Mater something that will benefit the students and the Institute. Keeping this in mind, our executive committee formed a sub-committee to go into all aspects of such a fund. They submitted their report, after studying all aspects involved. This has been approved by the Executive Committee and later by the AGM on 29.07.2007.

Briefly stated, this would be a Refundable Educational Assistance to needy students, who would be identified by the Dean, MIT and the Parent Chapter. Certain criteria for eligibility, like should be a full time student of MIT for any of the courses offered by MIT, should not be employed anywhere, 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 for 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.

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

1. To approach our members and other interested and philanthropic persons for donations to be collected throughout the year, as an ongoing programme.
2. A certain percentage of money earned through conducting of Seminars and Workshops be transferred to this Corpus fund.
3. An annual voluntary donation from every member of the executive committee and office bearers.
4. 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 is being /will be acknowledged and names of the

Donors are regularly being published in our News letter and also in our Website "www.mitaabc.org " The Committee also requests members to put aside a few moments of their valuable time for this noble cause to meet other people to get donations for the Fund.

**Executive Committee**



**National Seminar  
“New Generation  
Wireless Technologies”  
Jan - 2009**

**Inauguration Ceremony**



*(Pictures - courtesy Sri Kandasamy)*



**MIT Students participating &  
flying their model during the DRDO  
Golden Jubilee Celebration  
Student Competition**



*(Pictures courtesy ADE, Bangalore)*