

TRAERF

Annual Report 2012

(April, 2011–March, 2012)



TR Anantharaman Education and
Research Foundation
Hyderabad, India

(For soft copy, please visit www.tra-erf.org)

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Second Annual Report (2011 – 2012)

TR ANANTHARAMAN EDUCATION AND RESEARCH FOUNDATION

1. Introduction & Background

Professor Thanjavur Ramachandran Anantharaman, a doyen of Indian Metallurgy, had laid strong foundation for Metallurgical Education and Research in independent India. To carry forward his work, his students, colleagues and associates have initiated a Trust, named after Professor Anantharaman as TR ANANTHARAMAN EDUCATION AND RESEARCH FOUNDATION (TRAERF). The TRAERF has been officially formed as a Charitable Trust by its authors (Dr. N Eswara Prasad, Dr. Partha Ghosal and Shri T Pandurangarao) on the 23rd September, 2009 in the office of Sub-registrar II at Ranga Reddy District (East), Hyderabad in the State of Andhra Pradesh, India. The TRAERF has the following trustees:

➤ Professor Palle Rama Rao	.. President
➤ Professor Srinivasa Ranganathan	.. Member
➤ Professor Vinnakota Venkatapurna Kutumbarao	.. Member Secretary
➤ Dr. Guntupally Malakondaiah	.. Member Treasurer
➤ Professor Kamanio Chattopadhyay	.. Member
➤ Dr. Govindan Sundararajan	.. Member
➤ Professor Kota Bhanu Sankara Rao	.. Member

[A brief introduction to the Trust members and their contact details are given in Annexure – 1.]

2. Principal Objectives of TRAERF

The principal objectives of the Trust are listed below:

1. To motivate meritorious undergraduate students of engineering to pursue a research career in engineering, through a scheme of awarding Summer Fellowships at reputed institutions and other incentives.
2. To award Scholarships to first rankers among 1st, 2nd and 3rd year students pursuing B.Tech. Metallurgical Engineering in selected institutions

3. To award Prof T R Anantharaman Prizes for Science Communication by recognizing articles published by young Indians in publications such as IIM News, Current Science, Nanotech Insights.
4. To organize a “Professor T R Anantharaman Memorial Lecture” to be delivered by an eminent person every year on his birthday namely, November 25 at venues to be decided by the Board of Trustees.
5. To provide partial or full financial support to students pursuing Ph. D. research in any Materials Science related subject to enable them to present their original research work in International Conferences abroad.
6. To award Visiting Scientist positions for a period of up to three months to faculty members from the less endowed institutions to carry out research at premier institutions like the Indian Institute of Science, Institute of Technology at Banaras Hindu University and the various Indian Institutes of Technology.
7. To establish an Endowment Chair (named as the “Professor T R Anantharaman Endowment Chair”) in one or more premier institutions in India for the purpose of carrying out research in frontier areas of Materials Science and Technology and to pay monthly Honorarium to one serving faculty member in these institutions who is selected to occupy this Chair for a maximum period of one year.
8. To organize one or more International Conferences periodically (period to be decided from time to time by the Board of Trustees) in the name of Professor T R Anantharaman on research topics of current relevance.
9. To sponsor/provide financial support for basic research projects in the fields of Science and Engineering.
10. To sponsor research and outreach activities related to History of Indian science and technology and Materials heritage of India
11. To sponsor research activities aimed at a deeper understanding of Indian Philosophy and Yoga.
12. To organise publication of Professor T R Anantharaman’s unpublished writings and speeches on topics in metallurgy, materials science, philosophy and yoga.
13. To maintain a Library of Professor T R Anantharaman memorabilia such as texts of his speeches, photos, audio and video recordings, available with family members, friends and institutions.
14. To take up any other activity that would perpetuate the memory of Professor T R Anantharaman, as may be decided by the Board of Trustees from time to time.

In line with the above broad objectives and keeping in view the limited funds available to TRAERF, it has been decided that the Trust will efficiently extend its support to select students of **Department of Metallurgical Engineering, Institute of Technology, Banaras Hindu University as also those of a few non-top-tier institutions**, who have to their credit meritorious record and who have also shown credible commitment to academics in metallurgy and materials sciences. Such support is aimed at enhancing their knowledge and research skills.

In addition to supporting top ranking students, TRAERF also would support outstanding teachers of various metallurgical engineering departments to inculcate teaching and research skills in traditional as well as newer specializations in metallurgy and material science.

3. A Brief Report on the Activities of TRAERF during 2011 - 2012

The activities of TRAERF during the 2nd year of its existence (April, 2011 – March, 2012) are summarized below:

3.1. Fellowships and Scholarships:

- (i) **TATA STEEL – TRAERF Faculty Fellowship:** For the first time, TRAERF has supported a faculty member, Dr. Ramapada Manna, Associate Professor, Department of Metallurgical Engineering, IT-BHU to spend a 3-month sabbatical (October – December, 2011) at University of Cambridge, UK. The objective was for him to observe and imbibe the teaching practices in Metallurgy at the University of Cambridge as also to carry out research under the supervision of Professor Harry Bhadeshia. The entire project was sponsored and funded by M/s Tata Steel.

- (ii) **TRAERF Scholarship:** Ku. Pranjali Sharma, a student of Department of Metallurgical Engineering, IT-BHU has been awarded the TRAERF SCHOLARSHIP for standing first in the first three semesters of B.Tech. in Metallurgical Engineering. A one-time grant of Rs. 12,000 was given to Ku. Sharma in recognition of this achievement.

- (iii) **Summer Internships:** The following top ranking students of Department of Metallurgical Engineering, IT-BHU have been awarded Summer Internships at various research institutes, technology centres and industries.
 - (a) B. Tech. Part II
 - Mr. Somya Ranjan Sahu
 - Km. Yogita Guttikonda
 - (b) B.Tech. Part III
 - Mr. Ram Pratap Singh
 - Mr. Atul Agrawal
 - Mr. Arpit JainEach of the above 5 students has been awarded with a one-time grant of Rs. 12,000

3.2. Conferences and Seminars:

- (i) TRAERF has supported an exhibition on **METALLURGICAL HERITAGE**, conducted at IISc., Bangalore for the benefit of students
- (ii) TAERF Trust members delivered several talks at National Seminars and also conducted a few courses for the benefit of students. Notable is the 4-Lecture Series on **DISLOCATION THEORY** by Professor VV Kutumbarao at MGIT, Hyderabad.
- (iii) A two-day workshop on **INDUSTRIAL CORROSION AND ITS CONTROL** was conducted at Department of Metallurgical Engineering and Materials Science, IIT-Bombay, Mumbai on September 16-17, 2011. The lectures for the course were largely delivered by Professor VS Raja of that Department, who also took care of its organization.

3.3.Meetings Held:

Two meetings to review and plan various activities of TRAERF were held at Director's Conference Hall, DMRL on May 28, 2011 and March 10, 2012, respectively. The minutes of these meetings can be found at Annexures 2 & 3.

3.4.Fund-Raising:

The principal source of funds for the Trust is donations received from colleagues, friends, students and well-wishers of Professor TR Anantharaman. The list of donors who have contributed to the corpus fund till date is given in Annexure – 4. Since many others staying outside India have expressed their wish to contribute funds to the Trust, it has been decided to start the process of obtaining Government of India permission for receiving donations from NRIs. The Treasurer has been entrusted with the task of opening a separate **bank account for NRI donations**.

3.5.Income Tax Exemption:

The Trust had obtained approval of Income Tax department of Hyderabad for exempting the donors from paying income tax on the donations **under section 80G of Income Tax Act, 1961**

for an initial period of 2 years. It has been decided to seek extension of this approval for which the Chartered Accountants M/s Jyothirmayi Associates have initiated the necessary formalities.

3.6. Official Website of TRAERF:

Shri T. Vikram has been instrumental in updating the website (www.traerf.org) and also incorporated many changes suggested by the Trust members. This website is now fully operational and provides all the basic information about the trust and its various activities. Notably, the website features (i) Principal aims and mission, (ii) Web pages about Professor TR Anantharaman, (iii) List of Donors and Mode of making Donations to the Trust, (iv) Photo Gallery and (v) A corner for Recent Events of the TRAERF.

3.7. Proposals for 2012-2013:

- (i) Top ranking students and outstanding teachers of 10 Metallurgical Engineering Departments will be chosen for extending TRAERF support to expose them to learning and research opportunities better than what they may have hitherto experienced.
- (ii) 10 Numbers of experimental kits will be assembled and the members of the Trust will pro-actively volunteer to use them for presentation by them at one or more of the selected list of 10 institutions.
- (iii) Following National Seminars / Workshops are planned during 2012-13:
 - **Workshop on Corrosion:** This workshop will be held at the University of Hyderabad on the lines of the one held at IIT Bombay by Professor V S Raja of IIT-B.
 - **Continuing Education Scheme on Surface Engineering:** A 5-day workshop will be organized on Surface Engineering at ARCI, Hyderabad in August 2012 and the workshop will be called as “TRA Continuing Education Scheme Workshop”.
 - **Special Lectures** by select International speakers will be organized under the aegis of TRAERF and the local Hyderabad chapters of IIM and MRSI.
 - Lectures by Dr. Rampada Manna of IT-BHU will be organized at the Metallurgical Engineering Department of JNTU-Hyderabad.