

# G

# @90

## A PHOTO NARRATION OF A LIFE WELL LIVED

On the Occasion of 90th  
Birth Anniversary of

**Dr G Thyagarajan**

(2-5-1934 to 24-3-2024)





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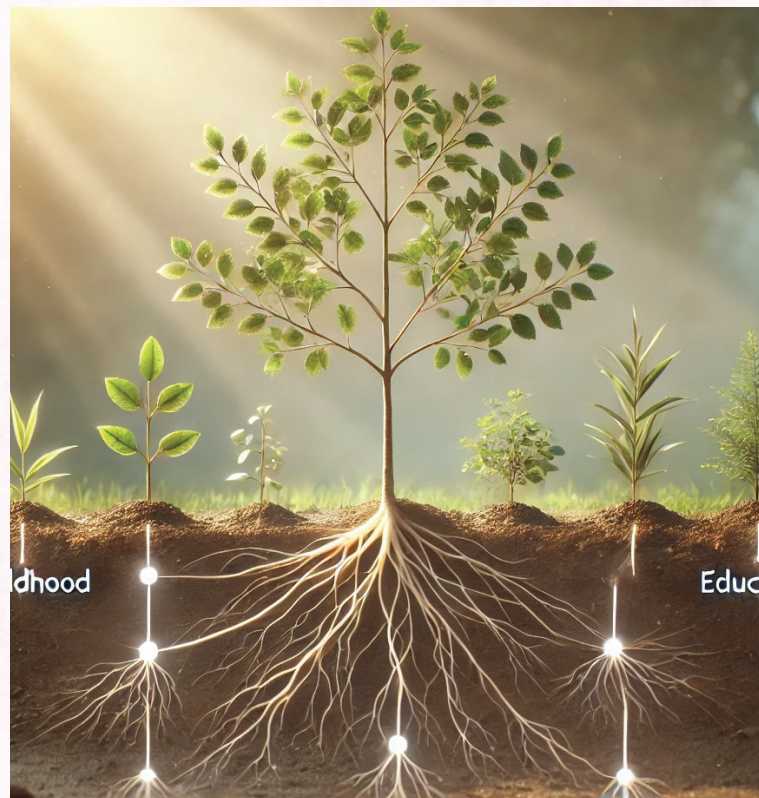
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Team CSIR-CLRI thank Dr D Srinivasa Reddy, Director, CSIR-IICT and Dr. Virendra M. Tiwari, Director, CSIR-NEIST for their support in providing the relevant photographs of Dr GT.



**CSIR- Central Leather Research Institute**  
**CSIR-Indian Institute of Chemical Technology**  
**CSIR-North East Institute of Science and Technology**

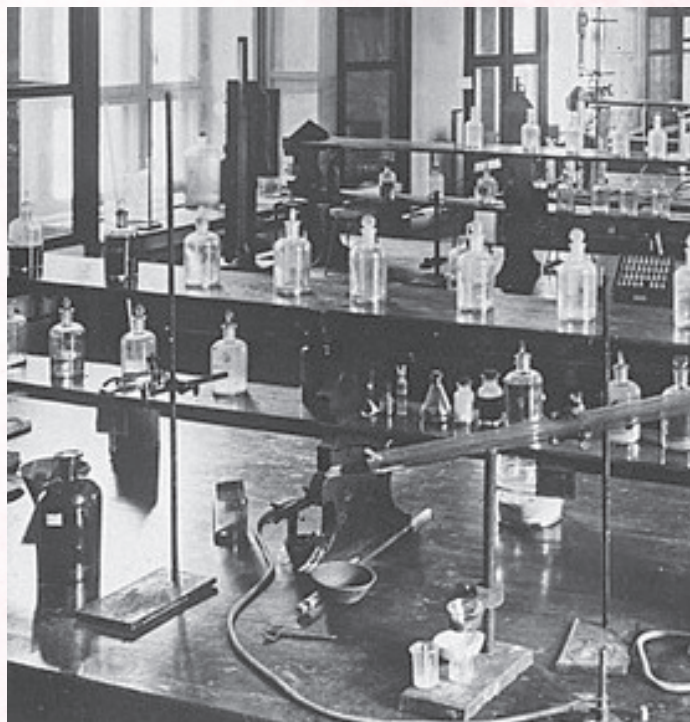
# TRACING ROOTS



Parents of Dr GT



Dr GT was born in 1934 at Tiruvarur, Tamil Nadu, India and did his Schooling at Kalyanasundaram Higher Secondary School, Tanjore



# MAKING OF AN ORGANIC CHEMIST

### Education

- ◆ University education in Osmania University, Hyderabad, 1950 - 56
- ◆ PhD (Chemistry) from Osmania University 1962
- ◆ Post Doctoral Fellow, University of California, Berkeley, 1964 - 65

### Research initiation

- ◆ New flavonoids from natural products
- ◆ Synthesised series of heterocycles with therapeutic value
- ◆ Transformations in pyridine series



*Regional Research Laboratory, Hyderabad*



*Nizam College, Osmania University, Hyderabad*

*Dr S Husain Zaheer  
Doctoral Supervisor of Dr GT*



# LIFE AT HELM OF AFFAIRS

## Key positions held by Dr GT

- ◆ Director, Regional Research Laboratory (North East Institute of Science & Technology), Jorhat, 1974 - 81
- ◆ Director, Regional Research Laboratory (Indian Institute of Chemical Technology), Hyderabad, 1981 - 85
- ◆ Director, Central Leather Research Institute, Chennai, 1984 - 1987 & 1991 - 94
- ◆ Science Advisor to Commonwealth Secretary-General and Director, Commonwealth Secretariat, London 1987 - 90
- ◆ Scientific Secretary COSTED, International Council for Science 1996 - 2002

**THREE CONSTITUENT LABORATORIES OF  
COUNCIL OF SCIENTIFIC AND INDUSTRIAL  
RESEARCH**

**GT@40**  
**Heading Regional Research Laboratory,**  
**Jorhat**



**GT@90**



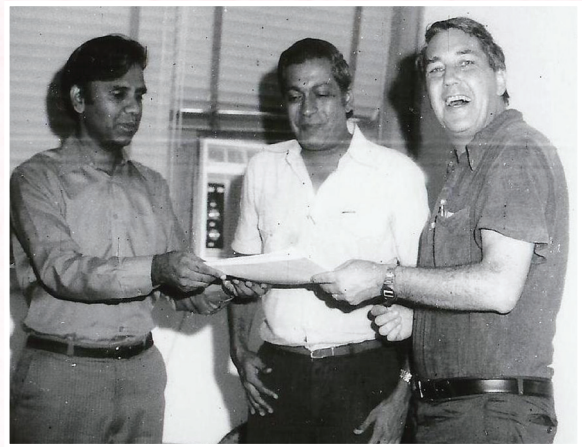
*Sri .S.K Roy, Production Manager from ARCL receiving the know-how on beneficiation additive from Dr. G Thyagarajan Director*



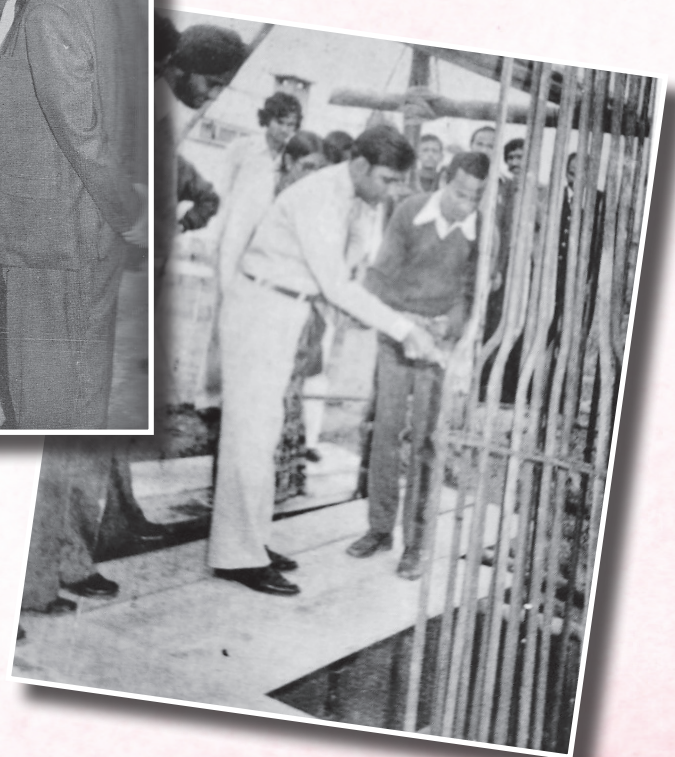
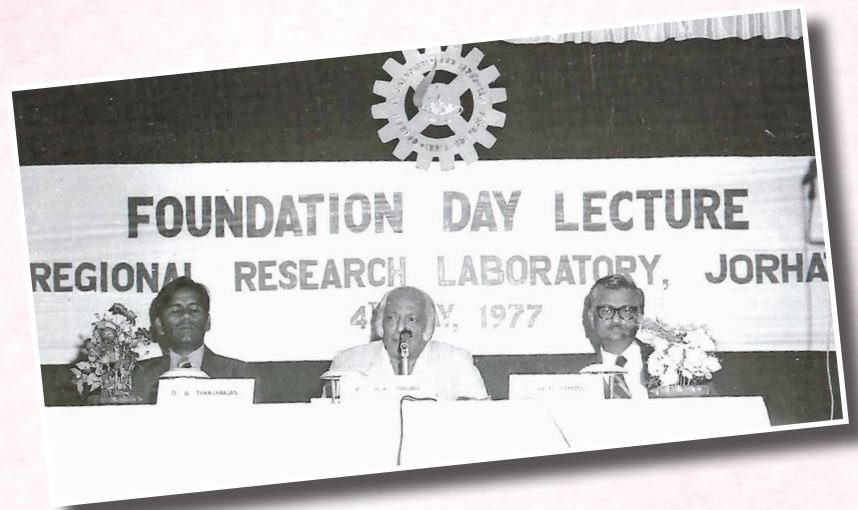
*GT at proving on the ground: The foundation stone for low cost housing unit being laid at Jorhat with RRL Technology*



*GT presenting RRL-J to His Excellency LP Singh ICS(Retd) and Vineeta Rai IAS. The Governor extolled the NE States to associate RRL-J in State planning.*



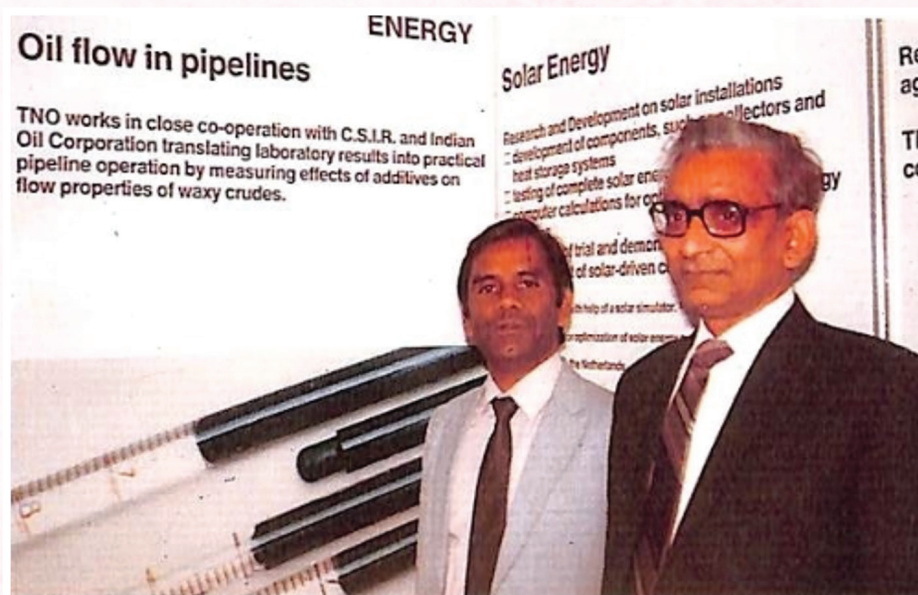
*Dr. G Thyagarajan, former Director, RRL-Jorhat transferring the Chlorfenvinphos technology to Mr. A Van der Giessen, the then chief Technologist of NOCIL plant. At the centre is Mr. S G Krishnan, Senior Executive of NOCIL, Bombay.*





*Villagers performing at the inauguration event organized by Dr GT*

*GT with one of his close long time friends Mr. K.N. Johry, then Director NAM S&T explaining the outcome of International Scientific Cooperation in R & D in Oil field chemicals.*





*Citronella distillation plant setup by  
Dr GT at RRL-Jorhat*



*A Commercial Plant based on the technologies generated at  
RRL-J, under the stewardship of GT as Director.*

**GT@46**  
**Heading Regional Research Laboratory**  
**Hyderabad**





*GT presenting highlights of some Technology developments of RRL-H to Fomer Union Minister Shri Sivasankar in the company of the senior colleagues.*



*GT as director RRL-H signing agreements for consultancy service to an Active Carbon Industry in Malaysia.*



*Dr G Thyagarajan explaining about the activities of the Institute to Union Minister Shri P Shivo Shankar*







*Governor of Andhra Pradesh Shri K C Abraham inaugurating a conference at IICT. Dr G Thyagarajan, Dr S Varadarajan, DG, CSIR are also seen in the picture*

*A Commercial Plant exploiting the technologies developed at RRL-H under the stewardship of GT as the Director.*



**GT@50**  
**Heading Central Leather Research Institute**  
**Chennai**



**First Day @CLRI  
As Director**



**ANNOUNCEMENTS TO ESTABLISH**

**Dispensary Quarters for staff  
Conference hall  
Computational facilities  
Auditorium**



*Dr GT inaugurating the Dispensary building,  
Staff club and Quarters during his Directorship  
at CSIR-CLRI*

## Triple Helix Auditorium



*Laying Foundation for Auditorium*



*The long-felt need to have an auditorium was fulfilled. It has been named "Triple Helix" and dedicated to the work of Prof GN Ramachandran and his co-workers, who unfolded the Triple Helical Structure of Collagen*

*Shri Rangarajan  
Kumaramangalam,  
Union Minister of S&T  
inaugurated the Auditorium*

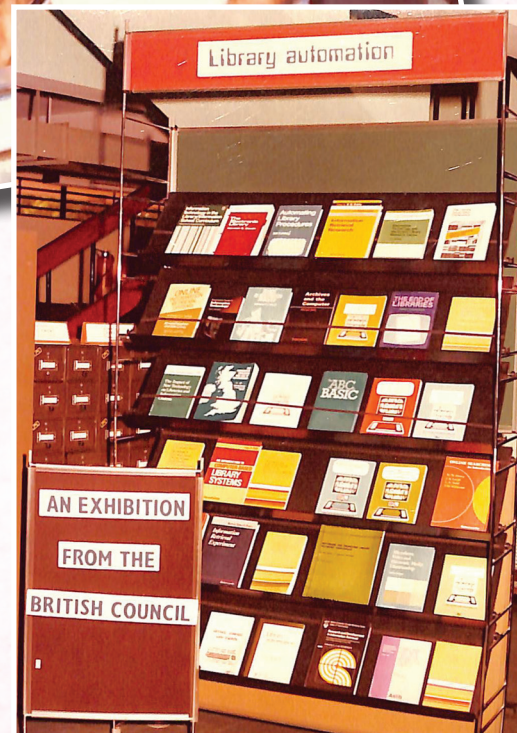




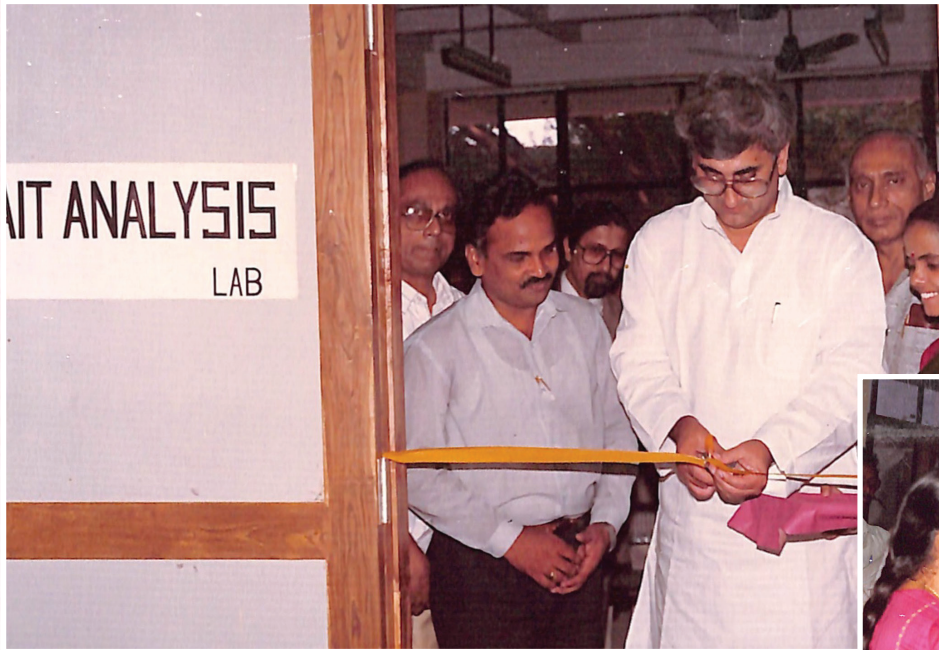
*Shri P Chidambaram, (C) Union Minister of commerce accompanied by Dr GT, Director (L) and Dr KV Raghavan, Dy. Director (R) at the time of dedication of the State of the Art Leather Museum funded by Shri Nagappan*



## Library Automation



## Footwear Engineering: Gait Analysis Lab



*GT receives Mr Salman Khurshid, Union Deputy Minister of Commerce, for opening the Gait analysis lab*

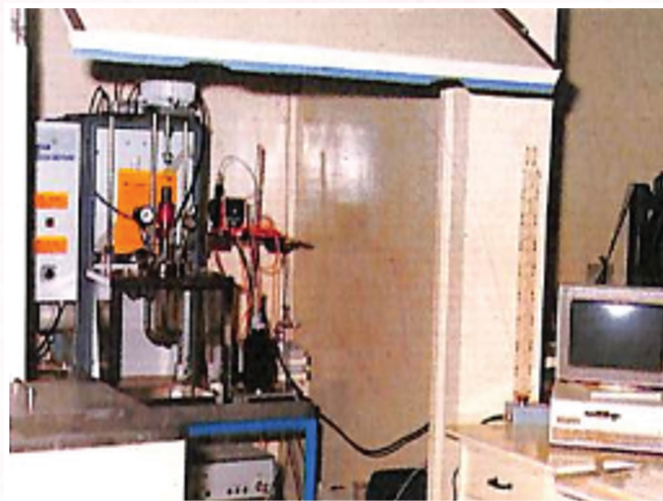




*A view of the State of Art Thermo Chemical Lab set up at CLRI for Industrial Safety/risk assessment under the stewardship of GT.*



*A sectional view of the Microprocessor controlled tannin extract pilot plant designed, fabricated and established during the stewardship of GT at CLRI.*



# 9 MAJOR PROGRAMS AT CLRI UNDER GT

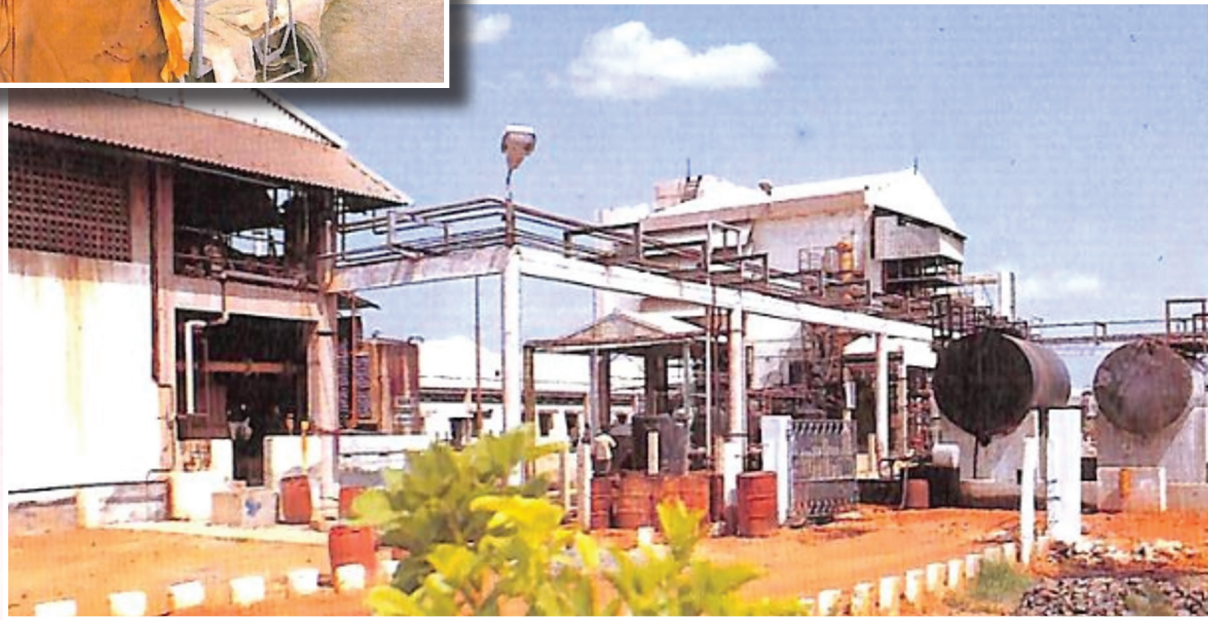


- 1 Modernization of tanneries
- 2 Modernization facilities @clri wb assisted
- 3 Leather technology mission
- 4 National leather development program
- 5 Cell for industrial safety and risk Assessment
- 6 Tno-clri cooperation
- 7 Establishment of cad system for footwear
- 8 Technology forecasting indian leather 2010
- 9 Commercialising technologies for leather Chemicals



*Dr GT's steadfast approach to modernizing the leather sector and strengthening the leather chemical manufacturing industry*

*An outcome of GTs mission to modernize the indian Leather Sector. A plant designed by CLRI and working at Ranipet.*



*A Commerical Plant (Balmer Lawrie & Co.) exploiting CLRI technologies developed under the stewardship of GT at CLRI.*

## Modernization for Empowerment

*Reaching and Unreached: Assuring of CLRI cooperation for setting up Adi Dravidars Tannery and Leather Manufacturer's society at Trichy.*



## Setting up CAD/CAM facility @ CLRI



## Advances in Process Safety & Quantitative Risk Assessment



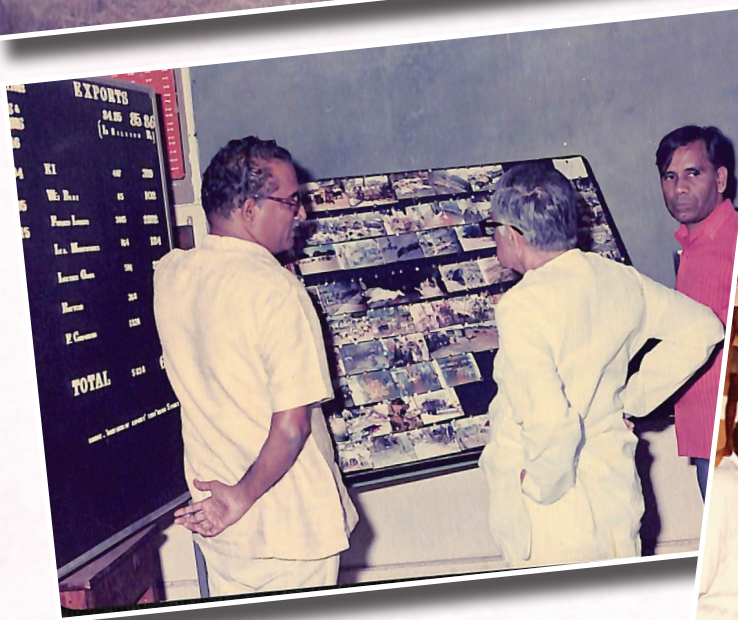
Dr GT hosting the inauguration function for the introduction of Post-Graduate courses in Footwear Science and Engineering



## Inauguration of the Leather Technologists Association activities at CLRI - 1987





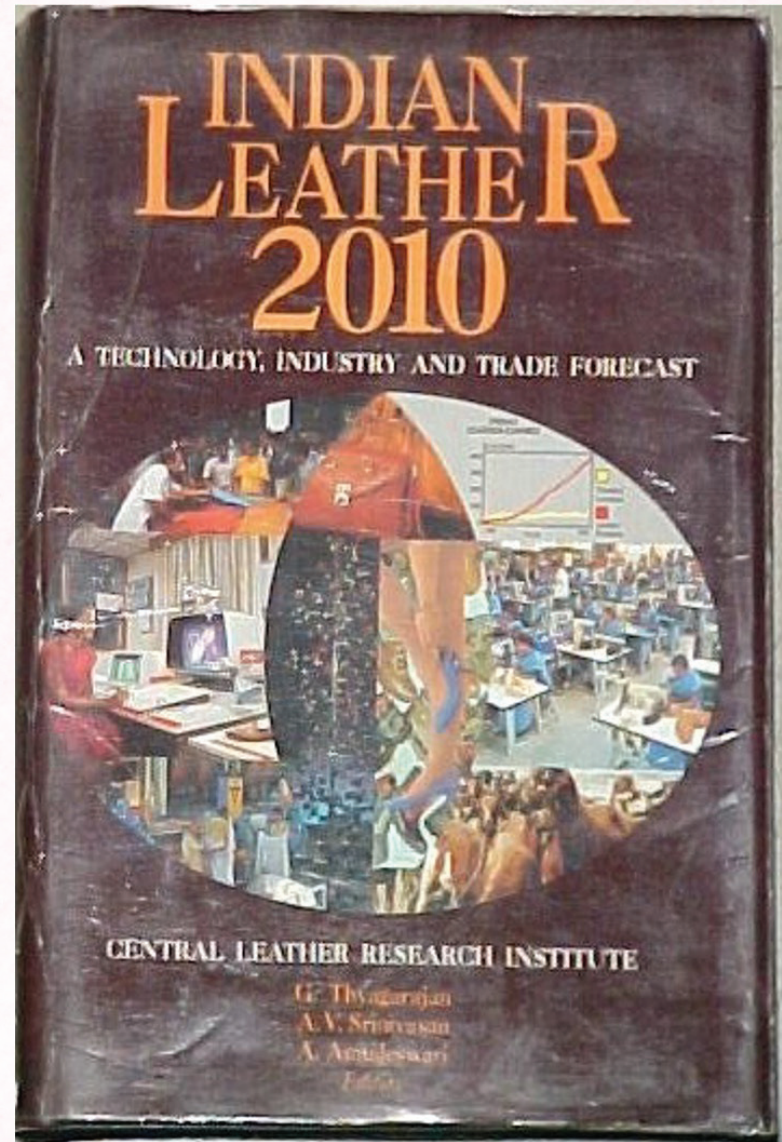


## Planning the Future

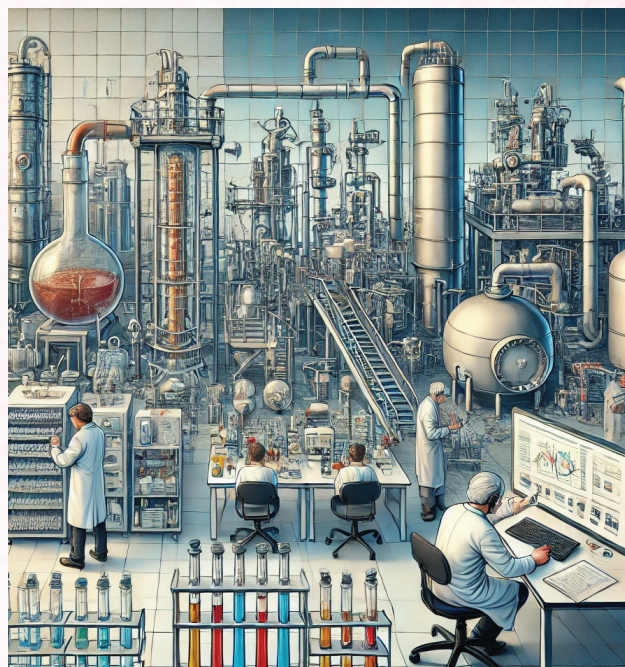
*Planning for Indian leather sector: Seventeen years in advance. Indian leather 2010 has been the focal theme*



*GT in the Program Management Committee  
of the National Leather Development Program  
(NLDP)*



# CONNECTING CHEMISTRY TO COMMERCE: A UNIQUE FORTE



## Dr GT spearheading commercialization of technologies



# PHOTOGRAPHS SHOWING TRANSITIONS

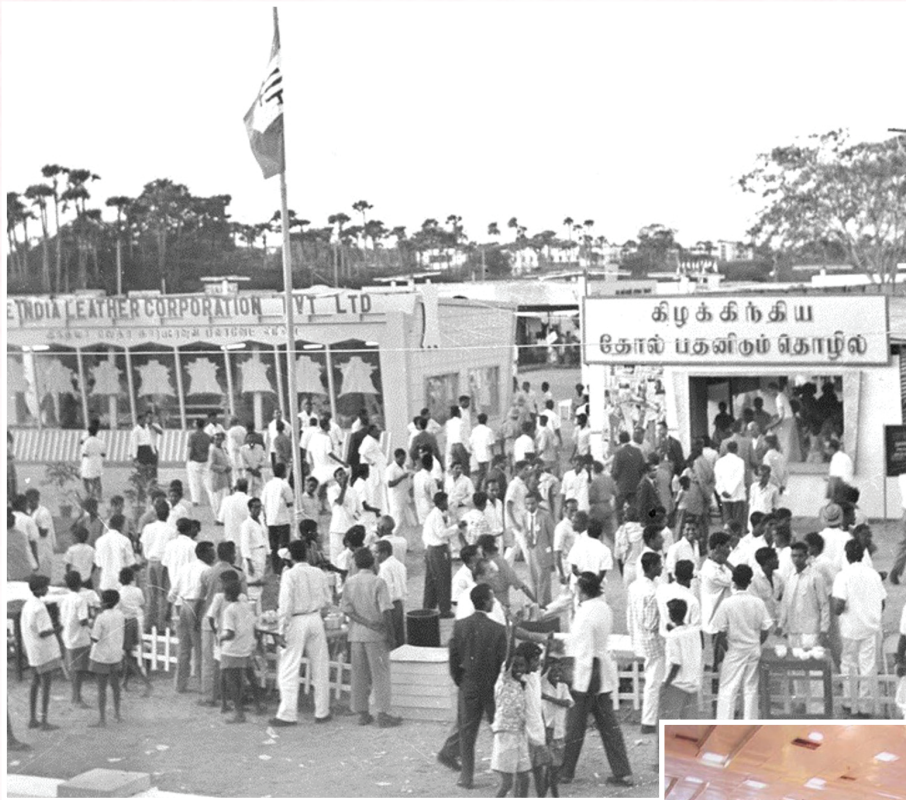


## TGT transforming into LERIG

*LERIG (Leather Research Industry Get-Together) 1991: Theme – “Impact of Changing Global Economic Scene on Indian Leather Industry in Rural and Organized Sector”  
(26th Leather Research Industry Get-Together)*



**CLRI led Indian Leather Fair transforming into ITPO managed India International Leather Fair (IILF)**



1965



2000

CSIR-CLRI fostering  
global contacts by Dr GT



GT@90







## Dr GT Chairing the Cooperation in 21st Century Meeting in China



## Fostering Basic Sciences



*Ernst, Nobel Laureate in Chemistry for his contributions towards the development of Fourier transform nuclear magnetic resonance, is greeted by GT*



*Fourier transform nuclear magnetic resonance spectrometer housed at CLRI; CLRI emerged a centre of excellence in this area in the decade of 1985 -95*

## Water Hyacinth Technology: Multi Nation Program

Water hyacinth (WH) is a noxious weed that had attracted worldwide attention due to its fast spread and congested growth leading to problems in navigation, irrigation, etc.

In 1978, Dr G Thyagarajan was appointed as the Regional Coordinator for intercountry programme on WH sponsored by CSC and UNEP-Nairobi

The aim was to assist participating countries namely Australia, Bangladesh, Fiji, India, Malaysia and Sri Lanka to control and manage WH - RRLs Jorhat and Hyderabad participates from Indian side

Research under this project led to WH being used, among other things, for making paper and cardboard, biomass for gas generation, animal feed and fertilizers



# SCIENCE DIPLOMACY



Earning support of political will for science



*GT explaining to Her Royal Highness Princess Anne, the unknown dimensions of Industrial accidents on 20 Oct, 1988.*



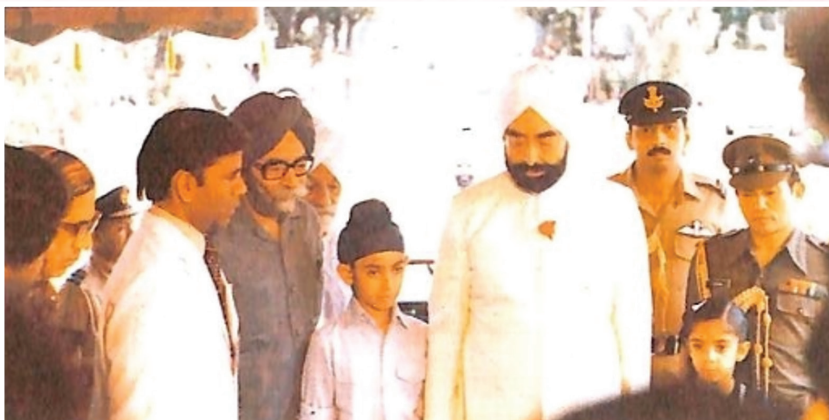
*GT with Sir Florizel Glasspole, Governor General of Jamaica on 6 Dec, 1988. GT established a New National Initiative called Sir Florizel Glasspole Lectures in Science(annually).*

## Photographs with Royalties, Political Leaders in Different Positions





*GT sharing views on technology extension  
fo rural centres withn the Chairman KVIC.  
Dr. Yasheved Singh.*



*GT receiving His Excellency President of India, Giani Zail Singh at RRL-H as Director.*



*GT at the inauguration function of CSIR Golden Jubilee celebrations. The Golden Jubilee was inaugurated on 26 Sep. 1992 by The Prime Minister of India Shri P.V. Narasimha Rao.*



*GT presenting to the Vice President. His Excellency Shri K.R. Narayan the future directions of leather research in CLRI.*



*GT receiving Voice Award from the Tamil Nadu State Minister Thiru KA. Krishnaswamy.*



*GT in the company of State Minister Thiru C. Ponnaiyan, Dr. Y. Nayudamma and leaders in Leather Industry during TGT 1985.*

# WORK AT CROSSBORDERS OF SCIENCE



## GT@53 Heading Commonwealth Science Council

Dr GT - Science Advisor to Commonwealth Secretary General and Director, Commonwealth Secretariat, London 1987- 91



*GT being felicitated spontaneously by the Leather industry on his departure fo London for CSC assignment.*



*GT with Commonwealth Secretariat office staff representing 6 nationalities.*

GT@90



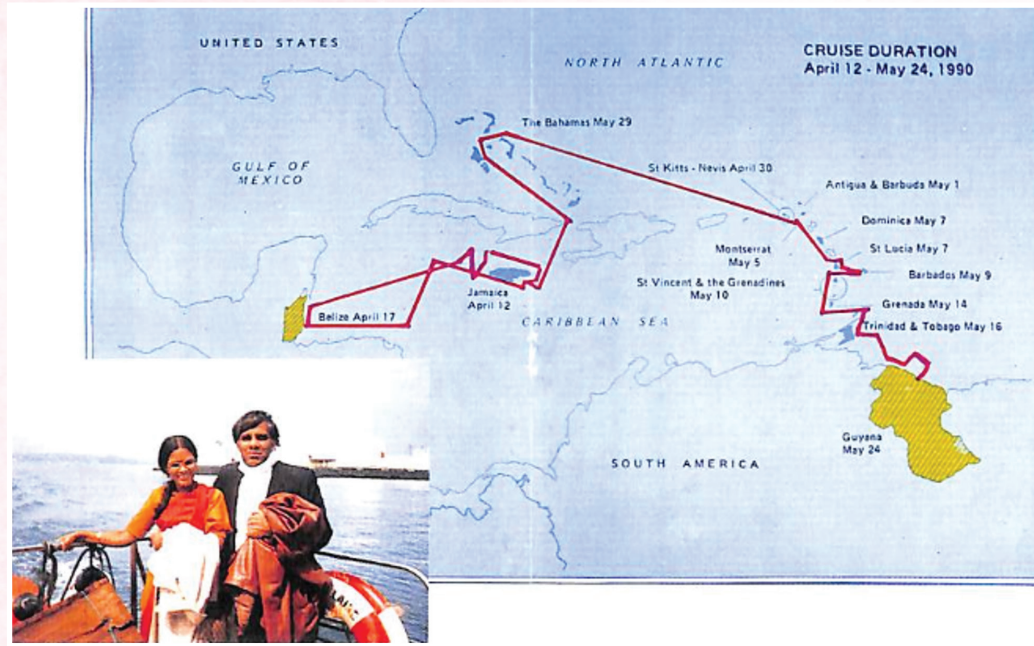
*GT explaining to Her Majesty Queen of England about activities of CSC.*



*GT and Mrs Thyagarajan in the Science Reception 1988 with Commonwealth Secretary General H.E. Sir S.Ramphal.*



*The Cruise Course of Sagar Kanya, an outcome of the CORE Project commissioned by GT at CSC.*



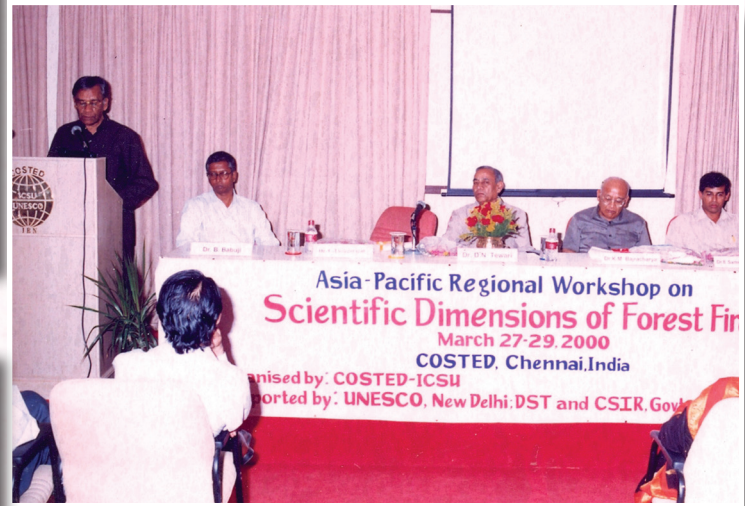
*Mrs. Thyagarajan and GT in UK with Sagar Kanya in the Background.*

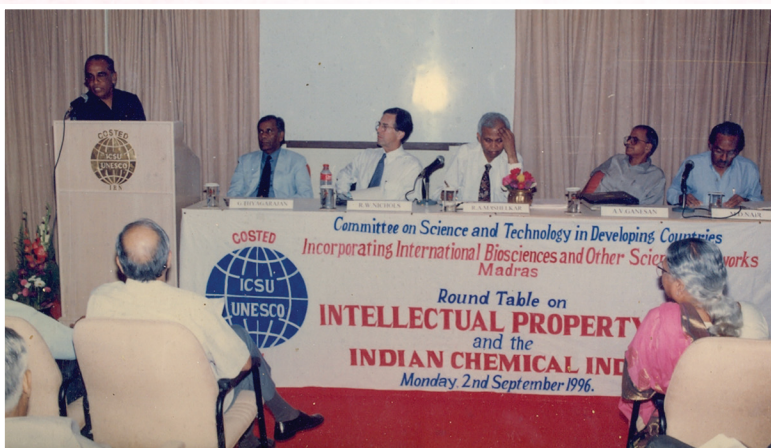


*GT with Asst. Commonwealth Secretary General Mr. M. Malhoutra, who gave steadfast support to GT's New Initiatives.*

## GT@60 Heading COSTED








United States International University  
(USIU)  
and  
Committee on Science and Technology in  
Developing Countries (COSTED)  
present  
a four -week training course  
on

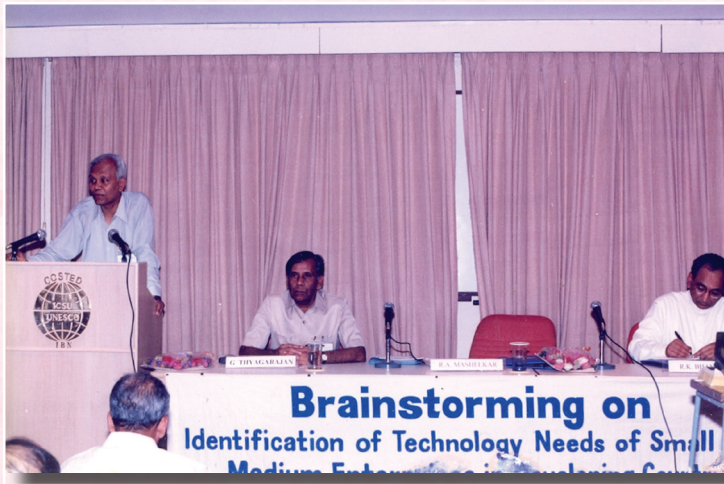
## TECHNOLOGY MANAGEMENT

**USIU** UNITED STATES INTERNATIONAL UNIVERSITY

COMMITTEE ON SCIENCE AND TECHNOLOGY IN DEVELOPING COUNTRIES



- A Leader in Strategic Management Education
- International Student Body from more than 80 Countries
- Campuses in San Diego, California, USA; Mexico City, Mexico; and Nairobi, Kenya
- A constituent of the International Council of Scientific Unions
- Co-sponsored by UNESCO: 25 member countries, South and North
- Mandated to promote international co-operation in science and technology

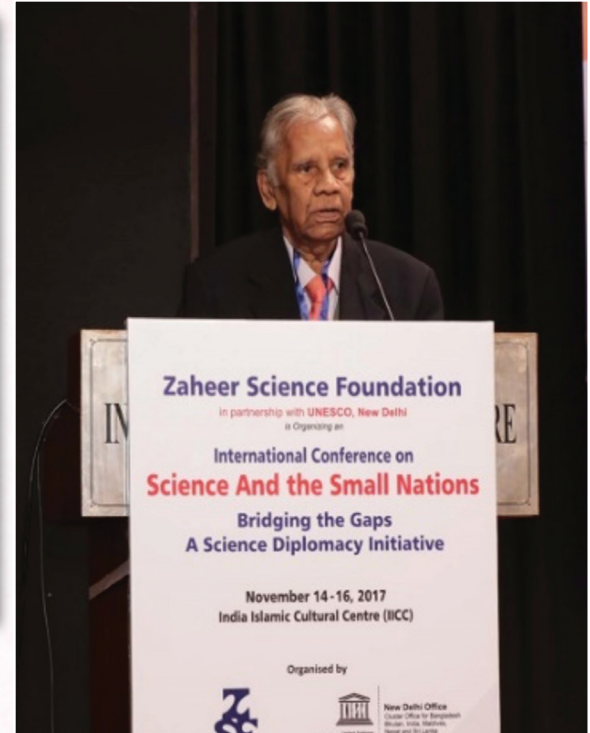


# SHEPARDING SCIENCE FOUNDATIONS



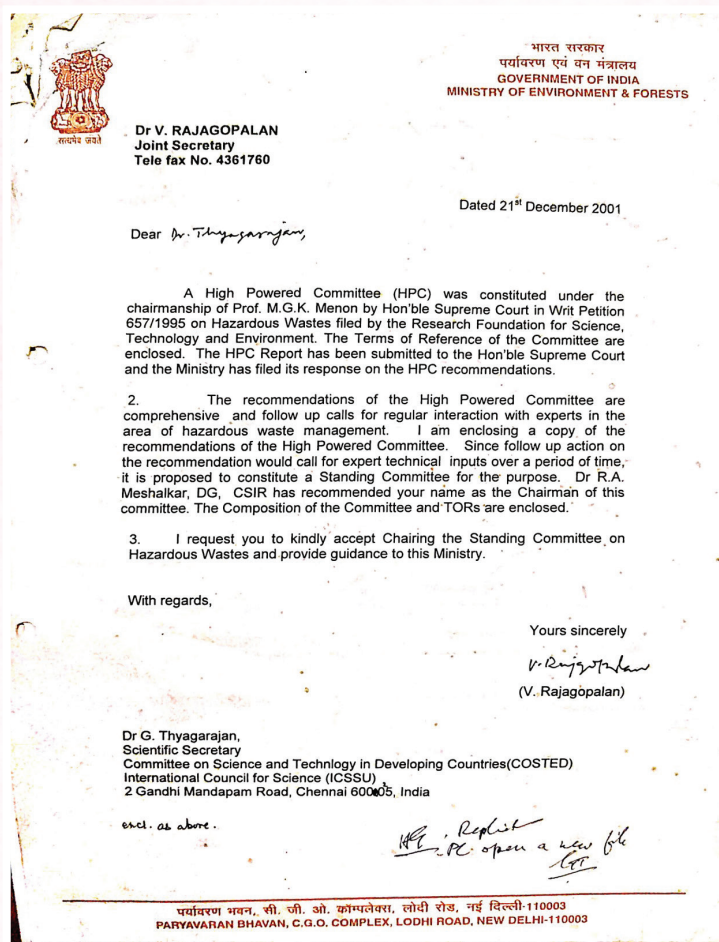


*Dr GT presiding a meeting at Madras Science Foundation 2006*

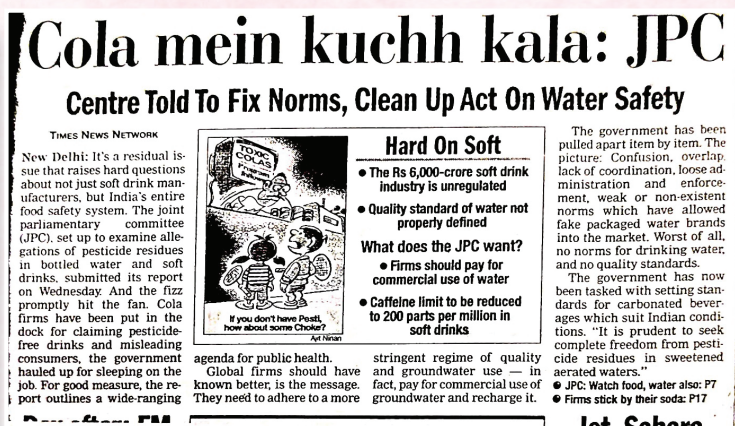


*Dr GT leading the Zaheer Science Foundation*

## Chairing National Committees



Dr GT Chairing National  
Committee on Hazardous  
Waste Management



Dr GT served as a consultant to the Joint  
Parliamentary Committee on pesticide residues in  
soft drinks and their safety standards





**INTERTWINNING WITH  
CLRI, IICT AND  
RRL-JORHAT (NEIST)  
GT@70**

# GT@70 CLRI

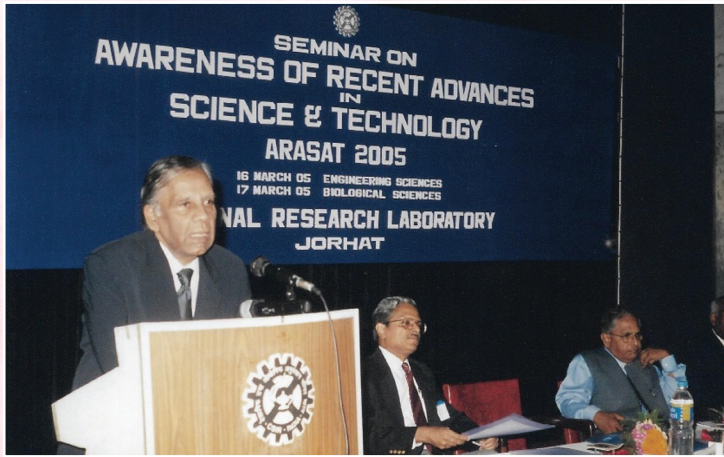


GT@90

GT@70  
IICT



GT@70  
RRL-Jorhat



**INTERTWINNING WITH  
CLRI, IICT and NEIST  
GT@75**

GT@75  
CLRI



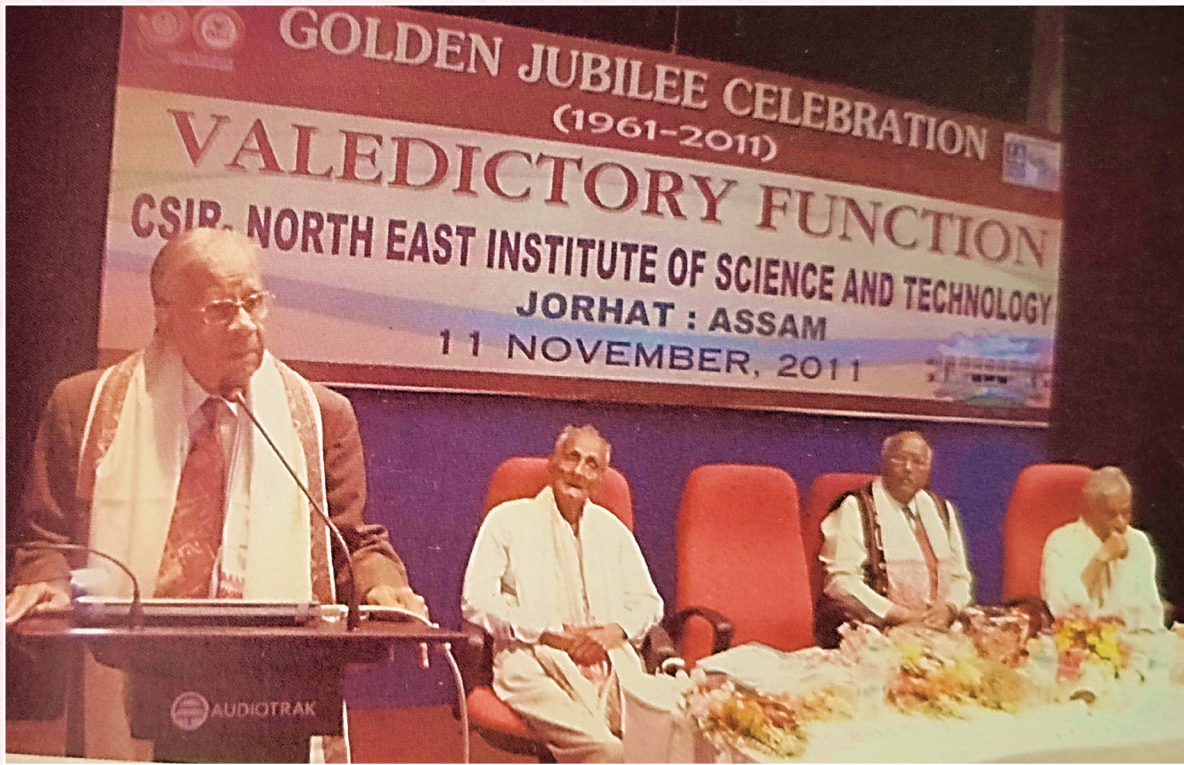
GT@90



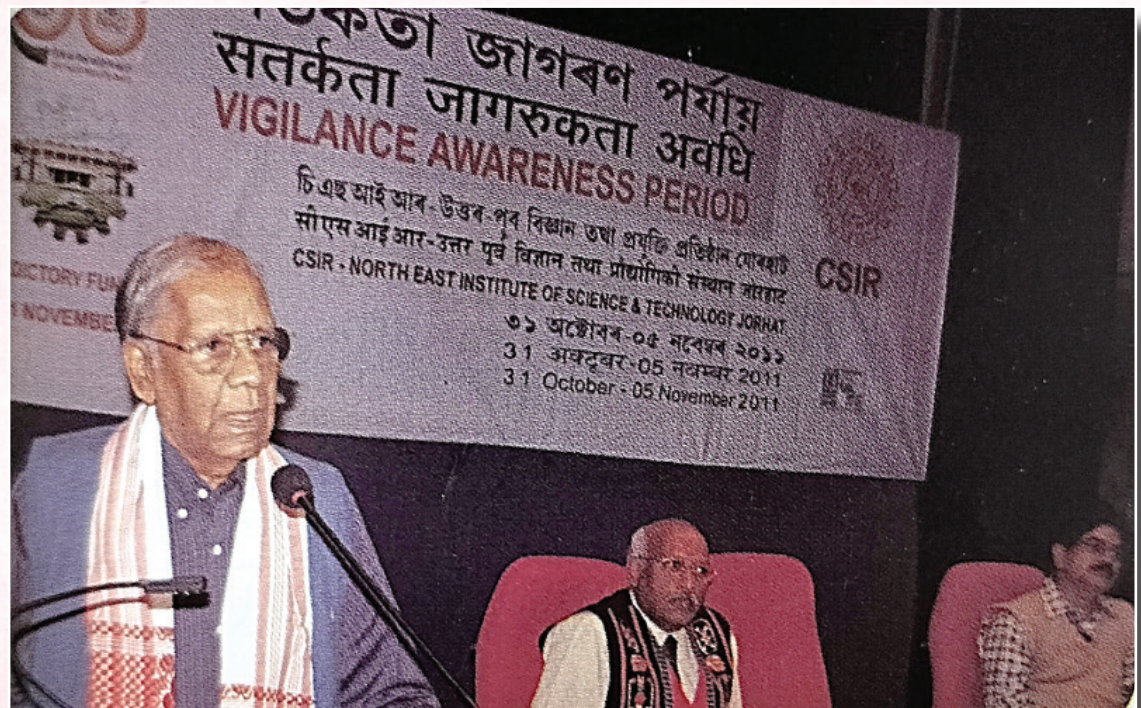


GT@75  
NEIST





GT@75  
NEIST



GT@90

**INTERTWINNING WITH  
CLRI, IICT and NEIST  
GT@80**

GT@80  
CLRI



GT@90







GT@80  
IICT



GT@90





# MASTERY IN SOCIAL SKILLS AND CONNECTING PEOPLE









## GT: As Head Of Immediate And Large Extended Family



*Dogs and the underdogs, Mustang and Mark,  
Prem, Ravi, Vidhya, GT and Shyamala at the  
lawns in the residence at RRL-H.*

## Celebration of Life Well Lived



*Kanniyadanam. GT giving away Vidya to Steve in Madras on 22 Jan, 1992.*



*GT at the Upanayanam of Sons Ravi and Prem. Also in the picture are Mr. T.V. Sridharan of DAE and wife Nalini.*





GT @ 90



## GOLDEN TOUCH OF GT @ CSIR



*An outcome of GT's mission to modernize the Indian Leather Sector. A plant designed by CLRI and working at Ranipet.*



*A Commercial Plant exploiting the technologies developed at RRL-H under the stewardship of GT as the Director.*



*A Commercial Plant based on the technologies generated at RRL-J under the stewardship of GT as Director.*



