



# THE INDIAN INSTITUTE OF METALS

## TIRUCHIRAPPALLI CHAPTER

### Activity Report for the period July 2009- April 2010

#### HIGHLIGHTS

- Secretary Report for the year 2009-10 and audited accounts submitted to HQ by April 28, 2010.
- The AGM of the year 2010 was held on April 21, 2010.
- The New Executive Committee which was elected during the AGM, assumed office and the list sent to HQ by April 28, 2010.
- The technical programme plan for the year 2010-11 was approved by the AGM and sent to HQ as part of Secretary's report.
- Membership Directory of the chapter sent to HQ through E mail on April 28, 2010.
- Hon. Secretary and Hon. Treasurer attended the National Council Meeting held at Bangaluru.
- Rs. 41024/- sent buy cheque no. 121987 dated April 28, 2010 to HQ as HQ share from the income of ManTRA 2k9.

- The chapter annexed the Best Chapter Award for its overall performance among the largest chapters of the Institute for the record 10<sup>th</sup> time
- The chapter has instituted Dr. G V Memorial Award to recognize the outstanding contributors in the field of materials science from this year onwards.
- IIM Merit Award to for academic excellence by wards of our members.
- Website of IIMT [www.iimtiruchy.org](http://www.iimtiruchy.org) was launched.
- Bulk Mailing System for communication to IIMT members was launched.
- 55 new members were added during the year, which resulted in 9% increase in Membership over last year.
- ManTRA 2k9 - The two day international workshop on "Manufacturing Technology – Realms Ahead" was conducted in association with Indian Welding Society





# THE INDIAN INSTITUTE OF METALS

## TIRUCHIRAPPALLI CHAPTER

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- A two day National Student Symposium on “Materials & Their Processing” – CROME 2010 was organised in association with student chapters at NITT, JCET and MAMCE.
- METTLE 10 – a mega national level student event was conducted in association with the student chapter of National Institute of Technology, Tiruchirappalli.
- TMAQ 09, the mega quiz programme to select teams for BPMMQ 09 was conducted in three phases. Preliminary written round was conducted at seven centres. 480 students from 19 districts of Tamil Nadu participated in the event.
- Chapter won the Runner Up in the international BPMMQ 09.
- Three Workshops for Students.
- ONE International workshop and ONE national workshop as well as SIX technical lectures with other professional bodies and institutes.
- Two career development programmes for Engineering College students.
- The Executive committee met 9 times.
- Four Lecture programmes during the period.
- Five issues of Metall, the house journal of IIM Tiruchirappalli chapter was brought out.



# THE INDIAN INSTITUTE OF METALS

## TIRUCHIRAPPALLI CHAPTER

### 1. MEMBERSHIP

The IIM, Tiruchirappalli Chapter has completed its twenty nine years of continuous and significant service to the metallurgical fraternity, an achievement, which it can really be proud of. The membership status of our chapter is as follows.

Category	As on April 1, 2009	As on March 31, 2010
ASM	05	06
LF	01	01
LM	48	52
OM	352	338
PM	01	01
ST	227	239
<b>Total</b>	<b>634</b>	<b>637</b>

During the year, the chapter has enrolled 55 new members and sent Rs. 186650 to HQ as subscription realized from the members.

### 2. STUDENT CHAPTERS' ACTIVITIES

#### NATIONAL STUDENTS' SYMPOSIUM ON "MATERIALS AND THEIR PROCESSING"

IIMT organized CROME 2010 – National Students' Symposium on "Materials and their Processing" – during March 22-23, 2010 in association with the IIM Student Chapters of NIT Tiruchirappalli, Jayaram College of Engineering and Technology and MAM College of Engineering, Tiruchirappalli. The Symposium included student paper presentations and invited talks by experts.

Twenty seven papers were received from a total of fourteen academic institutions, from the southern States including from NIT Tiruchirappalli, Anna University, Tiruchirappalli, Govt. College of engineering, Salem, Jayaram College of Engineering, Tiruchirappalli, MAM College of Engineering, Tiruchirappalli and many other academic institutions. Student presentations covered a wide range of topics including selection of Materials, Testing of Materials, Design of components, Synthesis of Materials, Liquid Metal Processing, Joining of Materials, etc. Over 120 students – registered as author delegates / delegates, enjoyed the two day technical programme immensely. Even students from other branches of engineering got excited about opportunities in metals and materials.



Invited talks were delivered by experts from NIT, Tiruchirappalli, WRI and BHEL Tiruchirappalli, GB Group Tiruchirappalli, Annamalai University and PSG College of Technology, Coimbatore. The topics for invited talks included: opportunities in steel industry, selection of materials, improvements in materials, testing of materials



# THE INDIAN INSTITUTE OF METALS

## TIRUCHIRAPPALLI CHAPTER

and HR skills for engineering graduates. Eminent speakers of CROME 2010 include Prof. V. Ramaswamy (former ED of RDCIS, Ranchi), Prof. S. Natarajan (NIT Tiruchirappalli), Shri R. Easwaran (BHEL, Tiruchirappalli), Dr. V. Balasubramanian of Annamalai University, Shri V Thyagarajan of GB Engg. Group, Shri R J Pardikar (BHEL, Tiruchirappalli), Shri S S Ananthan of WRI and Shri P. Manoharan (BHEL, Tiruchirappalli). All students were thankful to the organizers for providing a wonderful opportunity to interact with the leading personalities.

The two day event was inaugurated by Dr. K. Ruckmani Vice Chancellor (Officiate) of Anna University, Tiruchirappalli in a colourful function on the first day. Er. M. Subramanian, Chairman, Jayaram College graced was the guest of honour. Shri S. Karunakaran, Chairman, IIMT, the brain behind this event presided over the function. The speakers emphasized the challenges and excitement in metals and materials. Dr. S. Suresh, Vice chairman (IIMT), Dr Maluk Mohamed, Principal (MAMCE), Dr Kannan of JCET, Prof S Natarajan of NITT, offered their felicitations.

Earlier Shri N Rajasekaran, Hon. Secretary (IIMT) welcomed the gathering. Shri G M Balamurugan, HOD Mech dept. of JCET proposed the vote of thanks. Dr. Raman Sankaranarayanan, Convenor (CROME 2010) gave an overview of CROME 2010.

Dr. Rm. Chandrasekaran, Registrar, Anna University Tiruchirappalli was the Chief Guest for the valedictory function. He urged the students to be innovative. Shri P Nainar, Vice Chairman (IIMT) presided over the prize distribution function. Shri R Easwaran, Vice Chairman (IIMT) offered the felicitations. Shri N Parameswaran, past Secretary (IIMT) welcomed the gathering. Shri L M Subramanian, Coordinator (CROME 2010) summed up the proceedings. Shri Lenin, Faculty advisor (JCET) proposed the vote of thanks.

Mrs. A Santhakumari, Dr. R Nagalakshmi, Shri E Rajgopalachari, Shri P Govindaraju, Shri Katherasan EC members of IIMT participated in the event along with the office bearers of student chapters of IIMT.

The top four technical papers presented by the students were awarded with a cash prize worth of Rs. 10000/- along with citations. The prizes were distributed during the valedictory session of CROME 2010.

An event of such magnitude needs lot of well-wishers and sponsors. Jayaram College of Engineering and Technology, NIT Tiruchirappalli, MAM College of Engineering, Veasons Energy Systems, Kumar Industries, and our sister professional bodies extended a helping hand for CROME 2010. It is proposed to conduct this as an Annual Event, possibly in February.

### METTLE 10

Mettle 2010, the annual event organised by National Institute of Technology, Tiruchirappalli (NITT) in association with the student chapter of IIM and IIM Tiruchy chapter was conducted at the NITT premises on 12<sup>th</sup> and 13<sup>th</sup> March 2010. Mettle 2010 comprised of a variety of events this time as usual, with an addition in the form of a panel discussion by eminent personalities. The Chief Guests for the two day event were - Dr. T. A. Abinandanan, Professor, Dept. of Materials Engg, IISc, Bangalore and Mr. Somnath Basu, Researcher, TATA Steel. Besides, the guest lectures and the paper presentations by the students, the symposium consisted of many contests. The following are the highlights of mettle 2010.

- Areas of Focus:
  - o Nano Materials
  - o Material Design and Modelling
  - o Bio Materials
  - o Failure Analysis
  - o Forensic Materials Engineering
- Guest lectures





# THE INDIAN INSTITUTE OF METALS

## TIRUCHIRAPPALLI CHAPTER

- Industry problem solving
- Metallography
- BIZ quiz
- Tech quiz.

The paper presentation contest brought in a lot of interesting research work from more than 30 delegates from across the country. Dailies in the form of a metallography contest, business quiz, etc. were conducted. The star attraction this time was shared by the Annual Technical quiz conducted by IIMT and the panel discussion on "Value education". The technical quiz saw enthusiastic participation from the delegates and students alike. The panel discussion was an informative one with the panel including eminent personalities namely -

- Dr. T A Abinandanan, Professor, Dept. of Materials Engg, IISc, Bangalore
- Mr. Somnath Basu, Researcher, TATA Steel
- Mr. R. Easwaran – Vice Chairman, IIMT
- Mr. N. Rajasekaran, Hon. Secretary (IIMT)
- Mr. R V S Muralidhar, Pathfinder classes

The panel discussion was moderated by the eminent Vice Principal of St. Joseph's College, Tiruchy - Mr. Garnet Fernandez. In the valedictory session Prof. S. Natarajan, HOD (MME Department) of NITT, Shri N Rajasekaran, Hon. Secretary (IIMT) participated. In all, Mettle 2010 was a grand success for all to see.

### ONE DAY WORKSHOP ON “POWER SOURCES EVALUATION AND PROCESS QUALITY CONTROL”

The one day workshop organised by IIMT in association with the Welding Research Institute (WRI), the National Institute of technology (NITT), Indian Welding Society and the Indian Institute of Welding (IIW) focused on evaluation of welding power sources and process quality control.



Prof. Dietrich Rehfeldt from Leibniz University Hanover and Prof. Markus D. Rehfeldt of Albstadt-Sigmaringen University, Germany were the main faculty of the workshop conducted at the NITT premises.

The workshop started with a lecture on arc physics and metal transfer in welding by Mr. A Shanmugam, SDGM, BHEL followed by an introduction to Welding power sources by Dr S Manoharan of WRI. These lecture were the preludes for the theme of the workshop. In his lecture Dr. Rehfeldt explained the participants about the effect of the welding process parameters like voltage, current, arc length, weld speed, filler wire as well as the static and dynamic characteristics of the welding power sources. He has demonstrated the results of his 40 years of research through the “Analysator Hannover”, the fuzzy logic system, for process monitoring and quality evaluation in Gas Metal Arc Welding with an additional special feature of data mining in its latest version AH-XII which can be used to measure transient welding voltage and current and to process them into Probability Density Distributions and Class Frequency Distributions during GMAW experiments.

Further he said, “By using the signals from these parameters, one can control the weld quality and on line monitoring of the process quality is made possible. Detailed statistical monitoring of arc voltage, welding current together with other static variables is the need to improve the process quality thus produce product quality. The study of short-lived arc transient phenomena, but with relatively modest data-store with added interface hardware and purpose-designed software are the requisite for optimization of process parameters and for the evaluation of welding regimes and performance of the related systems”.

He interacted with the over 130 delegates, mainly the faculty and students and research scholars of National Institute of Technology, Annamalai University, MAM College of Engineering, PSG – BHELES post graduate programme, Jayaram college of Engineering & Technology and other engineering colleges as well as practicing engineers from the welding research institute throughout the day. He stressed the impact of output from the welding power sources on weld quality and said, “The increasingly arduous demands of operating environment and quality targets in electric arc welding applications have led to the need for instrumentation to permit the detailed assessment of the performance of welding power units”.





# THE INDIAN INSTITUTE OF METALS

## TIRUCHIRAPPALLI CHAPTER

Mr. P Nainar, GM (BHEL) distributed the certificates for the participants and offered his felicitations. Mr. N. Rajasekaran, Hon. Secretary (IWS) and coordinator of the workshop proposed the vote of thanks. Earlier, Dr. Raman of NITT welcomed the gathering. Mr. N Raju, Secretary (IIM) conducted the proceedings.

### INSTALLATION OF OFFICE BEARERS OF JCET

The office bearers of the student chapter at Jayaram College of Engineering & Technology (JCET), Tiruchirappalli, for the year 2009-2010 had been constituted on 12<sup>th</sup> August 2009

Shri S. Karunakaran, Chairman IIMT and General Manager (Modernisation) of BHEL installed the office bearers of JECT student chapter 2009-10. Mr. V. Thyagarajan, Immediate past Chairman (IIMT) and former General Manager (Labs & WRI), Shri M. Subramanian, Chairman, were guests of honour. During his speech Shri M. Subramanian highlighted the role of JCET in supporting the students activities.

Prof Balaji, HOD, welcomed the gathering. Mr. N. Rajasekaran, Hon. Secretary, (IIMT), briefed about the activities of IIM and the chapter. Dr. P Ravikumar, Principal of JCET, presided over the function.

During that occasion, Mr. S. Manimozhi, Senior Manager, Welding Research Institute, BHEL, Tiruchy delivered a lecture on the theme "Steels and their weldability".

Shri P Nainar, Vice Chairman (IIMT), Shri R Easwaran, Vice Chairman (IIMT), Dr. S. Suresh, Vice Chairman (IIMT) offered their felicitations. Mr. G. Rajendran, Hon. Treasurer conducted the proceedings.

### 3. BPMMQ 09 (TMAQ 09)

The nominees of the chapter Balaji Srinivasan and MS Viswanath have mastered the International Brahm Prakash Memorial Materials Quiz 2009 (BPMMQ 09) by emerging as runners up. TMAQ 09, which was conducted by our chapter to select the teams for the BPMMQ 09 laid the foundation for the success. TMAQ 09 was conducted in three phases. In the first phase, which is a preliminary written round, the qualifiers for the semi finals at Tiruchy were selected. The qualifiers were paired as teams and participated in the oral rounds in the semi finals.

The winners of semi finals qualified for the final, which is a multimedia quiz. The top three teams were awarded a cash prize of Rs. 5000/-, Rs. 3000/- and 2000/- respectively. The chapter bears the one-way fare for the participants and provides lunch and snacks for all the students. Following are the major highlights of TMAQ 09.

- TMAQ 09, to select the qualifying teams for the International Brahm Prakash Memorial Quiz 2009, was conducted by IIM Tiruchy chapter covering 18 revenue districts & Karaikal of Pondicherry state (Thiruvannamalai, Cuddalore, Villupuram, Perambalur, Ariyalur, Tiruchy, Pudukkottai, Sivaganga, Madurai, Theni, Dindigul, Tirunelveli, Thoothukkudi, Nagarcoil, Thiruvavur, Nagapattinam, Karaikal, Namakkal, Karur).
- TMAQ 09, brochures were printed and sent to nearly 950 schools in all the above districts.
- The EC members of IIMT, traveled to many districts to meet the principals of schools to get wider participation.
- Printed question papers with 60 questions and answer sheets were used.
- Around 400 students participated in the written preliminary round held at seven centres. IIM EC members with student chapter members traveled to all the centres to conduct the quiz.
- Participation certificates were issued to all the students by IIMT.
- Out of that 32 teams were selected based on their performance in the written test. The selection was not based on centre. Based on overall ranking of all the students.
- Snacks and tea were given to all students and accompanying persons by IIMT.
- A pen was given to all the students by IIMT.
- Top three performers at each centre were given prizes by IIMT.



# THE INDIAN INSTITUTE OF METALS

## TIRUCHIRAPPALLI CHAPTER

- The qualified 32 teams were invited to Tiruchy on Aug. 16, 2009.
- They have undergone a semi final oral round with 8 rounds of quizzing in the morning of 16th Aug. 2009 simultaneously at four halls.
- Based on the overall rankings top six teams were selected for the finals.
- During the intervening period, a talk on Opportunities in the field of Metallurgy was given by students of NITT. It is worth to note that few students of earlier years joined NITT metallurgy dept. after attending the quiz.
- The final was a well prepared multimedia round having 9 rounds of quizzing.
- From that top three winners (2 teams from Tiruchy region and one team for Karaikudi Region) were qualified for BPMMQ 2009.
- Morning snacks with tea, lunch and evening tea with snacks were given to all the 64 students and their accompanying persons by IIMT.
- Certificates were given to all students by IIMT.
- A cash prize of Rs. 5000/-, Rs. 3000/- and Rs. 2000/- was given to the top three winners.
- One way bus fare was given to all the participants.
- Accommodation was given to the needy students, free of cost.

The gathering of the best brains and the magic of quizmaster Shri R. Easwaran created a wonderful atmosphere at the NITT premises during TMAQ'09. The Finals of the Quiz was held from 14.00 – 16.15 Hrs at NITT followed by the semi finals in the morning session. Shri R Easwaran, the Quiz Master, was supported by Prof. Raman Sankaranarayanan, Shri Rajendran, Shri N Rajasekaran and Mrs. A Santhakumari.

The Quiz had nine rounds including 30 second Tirade Round of six questions. It was not as if intellectual quotient was evident only among the students who were in the finals and the TMAQ'09 team, for even the audience with their answers earned the applauds and prizes. The multimedia presentation of Quiz in Flash was nicely organised by Ms A. Santhakumari. All these made the Quiz session very lively.

In the **valediction function** the participants were addressed by **Shri L. Pughazhenth**, **Imm. Past president of IIM**. He commended the efforts taken up by the TMAQ'09 team and shared with the students the importance of knowing about the Materials around us. He also elaborated about the career opportunities in the field of materials technology.



**Dr. M. Chidambaram, Director NITT**, was the guest of honour. He called upon the students to stay focused during their studies and encouraged them to become professional in the core engineering sector which is vital for the country's growth.

Presiding over the function, **Shri S Karunakaran, Chairman (IIMT)**, lauded the students and teachers for their participation in making TMAQ 09 a more successful one. **Shri V Thyagarajan**, Imm. Past Chairman (IIMT) offered his felicitations.

**Shri R Easwaran**, Vice Chairman & Chairman (TMAQ 09) briefed about the genesis of TMAQ 09. He also thanked the TMAQ 09 committee, especially, the good work done by Dr. Raman Sankaranarayanan, Mrs. Santhakumari, and S / Shri Parameswaran, Dr. Vaideeswaran, Baskaran, Subburaj, Mohammed Ismail, Raja, Rajagopalachari, Selvin Devasahayam, John Berchmans, Nallasivan, Subramanian, Govindaraju, Mohan, Raju, Meyyappan and others. Earlier, Dr. Raman Sankaranarayanan, Convenor (TC, TMAQ 09) welcomed the gathering. Shri N Parameswaran, Convenor (TMAQ 09) proposed the vote of thanks.





# THE INDIAN INSTITUTE OF METALS

## TIRUCHIRAPPALLI CHAPTER

### 4. IIM MERIT AWARD 2009



As in the past, IIMT used TMAQ 09 as an occasion to honour the meritorious students of 10<sup>th</sup> and 12<sup>th</sup> standard, among the wards of members of IIMT. Shri V Thyagarajan distributed the IIMT MERIT AWARDS. Shri N Rajasekaran conducted the proceedings. Following wards of our members won the IIM Merit Award 2009.

Mr. Gokul R S/ o Mr. Rajan A	X
Mr. Arunan V S/O Mr. Veeramani G	X
Mr. Sakthinagaraj A S/o Mr. Asaithambi S	X
Ms. Shalini R K D/o Kaliyaperumal R	XII
Ms. Lincy Margaret A D/o Mr. Albert William I	XII
Mr. Aravind Kumar K S/o Mr. Kumar R	XII

### 5. WORKSHOPS AND SEMINARS

#### Manufacturing Technologies – Realms Ahead - ManTRA 2k9



The Tiruchirappalli Chapter of the Indian Institute of Metals (IIMT) joined hands with the Modernisation department and the Welding Research Institute (WRI) of BHEL Tiruchirappalli as well as with the Southern Zone of Indian Welding Society (IWS, SZ) to organise a two day International workshop on “**Manufacturing Technologies - Realms Ahead**” (**ManTRA 2k9**) at MD Auditorium, BHEL, Tiruchirappalli during September 7 & 8, 2009. The event was well attended by nearly 470 delegates.

#### INAUGURATION

Inaugurating the workshop, Mr. CS Verma, Director (Finance), BHEL said that India planned to add 78,577 MW in the eleventh plan and to achieve this an average capacity additions of around 15,000 to 17,000 MW a year is required during the next two plan periods. During this period, BHEL will come out with higher rating thermal sets with super critical parameters, Ultra high voltage transmission systems and advanced class gas turbines.

Speaking on the company’s capacity augmentation scheme, Mr. Verma said BHEL is all set to achieve its manufacturing capacity to 15,000 MW per annum by January 2009 and take up to reach 20,000 MW per annum by 2011-12. On the performance of BHEL equipment, Mr. Verma said though the BHEL share in the installed capacity in India is 64%; but its share in the generation accounts for 75%. He also said that the BHEL places its enhanced focus on innovation and R&D and said the BHEL spent on R&D is 2.17 per cent of Turnover, which comes about Rs 800 crores and plans are ahead to increase it further in the coming years.

Speaking on the super-critical technology, he said in the twelfth five year plan about 60 per cent of the equipment would be based on super-critical technology and in the thirteenth five-year plan the entire power plant equipment will be based on this and BHEL has already entered into agreement with Alstom towards this.

Mr. S Ramasundaram, IAS, Principal Secretary, PWD, Government of Tamil Nadu, the Guest of Honour of the event, in his address said the human civilisation, which started with the usage of metals, has really evolved. Proper and continuous usage of metals has led to development and prosperity of human beings. Manufacturing sector holds the key for growth in service sectors, he said.

Mr. AV Krishnan, Patron (IIMT) and Executive Director, BHEL, Tiruchirappalli, in his Presidential address, said, “In tune with the huge requirement of power in the country, BHEL Tiruchirappalli required to cross Rs 10,000 Crore turnover by the end of this financial year and this can be achieved not only by capacity





# THE INDIAN INSTITUTE OF METALS

## TIRUCHIRAPPALLI CHAPTER

addition, but also required to focus on capability building with introduction of innovative and new manufacturing processes in the plant. The productivity improvements at power plant erection sites are of paramount importance, if projects have to come up at faster pace, he added. Calling upon Ancillary industries involved in the manufacture of power plant equipment to introduce low cost automation and technology up gradation, he said that Tiruchirappalli has the unique privilege of being the Boiler Manufacturing Hub of India with over 400 small and medium industries in and around Tiruchirappalli.

On the occasion, Mr. S Ramasundaram, IAS, Principal Secretary, PWD, Government of Tamil Nadu, released the conference proceedings and Er. R Sundar, Director of Boilers, Tamil Nadu, received the first copy. Mr. Ramasundaram declared open the display stalls.

Earlier, Mr. M. Kannappan, General Manger (Piping Centre) and Chairman, IWS (Southern Zone) welcomed the delegates and other participants. Mr. S Karunakaran, General Manager (Modernisation) and Chairman, IIM, Tiruchirappalli Chapter, briefed about ManTRA 2k9. Dr. S. Suresh, Addl. GM (WRI Labs & Labs) and Convenor (Mantra 2k9) proposed a vote of thanks.

### TECHNICAL PROCEEDINGS

In all 24 papers were presented during the workshop covering various aspects of manufacturing technology including orbital and mechanised welding solutions in Boiler Industry, Friction stir welding concepts, prospective technologies for welding of power plant components, automated material handling systems, nano technology and its application in power sector, cost effective production with laser welding and water jet cutting and current & future trends in welding application of thermal & hydro power plant equipment. With twenty four experts from across the world delivering the invited talks, the event was a technically rewarding experience for the delegates. Seventeen stalls were also got up at the venue, which provided details of the new technologies being discussed in the event.

### VALEDICTION



Technology.

The Valedictory Session of ManTRA 2K9 was held on 8<sup>th</sup> September 2009. Shri Ranjan Sahi, Group General Manager (CMT & IP, Monitoring & MM), BHEL, New Delhi was the Chief Guest. Delivering the Valedictory Address, he stressed the requirement for electric power in the country is set to increase plan after plan. The forthcoming plans will have increasing share of super critical units, considering their efficiency and reduced emissions. He complimented the organisers for organising this event, which helps to share the current trends in Manufacturing

Technology. Mr. V Ramakrishnan, Managing Director, Vecons Energy Systems Pvt. Ltd., Tiruchirappalli, presided over the event. In his address, he compared the developments in the power sector in China and felt that India needs to take a great leap forward. Er. T. S. G. Narayannen, Deputy Director of Boilers, Tiruchirappalli, presented mementoes to the exhibitors.

Earlier, Mr. P. Nainar, General Manager (M&S, Civil and Safety) and Vice Chairman of IIMT & IWS, SZ) welcomed the gathering for the valedictory function. Dr. A. Raja, Addl. General Manager, Welding Research Institute, summed up the technical proceedings of the two-day event. Mr. Rajappa Rajkumar, Vice Chairman, IWS, Southern Zone, proposed the vote of thanks.

### 6. Dr G V MEMORIAL AWARD

IIM, Tiruchirappalli Chapter, had instituted Dr. G V Memorial Lecture and Award for the first time, in honour of Late Dr. G. Venkataraman, eminent metallurgist, Life fellow of IIM and former Chairman of IIMT. The talk was arranged as the first technical session after the Inauguration. The first award was presented to Mr. V. Thyagarajan, an eminent metallurgist and currently, General Manager (Welding Research Institute & Laboratories) of BHEL, Tiruchirappalli. Delivering the address, Mr. Thyagarajan, who is also the immediate Past Chairman of IIM,





# THE INDIAN INSTITUTE OF METALS

## TIRUCHIRAPPALLI CHAPTER

Tiruchirappalli Chapter, gave a comprehensive view of the metallurgical issues faced by BHEL, Tiruchirappalli covering the experiences over a thirty year span.

The Dr. G.V Memorial Award citation was read by Mr. N Rajasekaran, Honorary Secretary, IIM, Tiruchirappalli Chapter and was presented to Sri V Thyagarajan by Mr. M. Kannappan, Chairman of the Session. Shri S. Karunakaran, Chairman, IIM, Tiruchirappalli Chapter presented the Dr. G V Memorial Award.

Earlier, rich tributes were paid to Late Dr. G Venkataraman by Mr. R. Easwaran, Vice Chairman, IIM, Tiruchirappalli Chapter. Mrs. Hema Venkataraman, wife of Late Dr. Venkataraman, was honoured with a shawl by Mrs. Jaya Thyagarajan.

### 7. SUPPORT TO PROFESSIONAL ACTIVITIES

During the year, the chapter co-sponsored the following events and nominated delegates also.

Programme	Organised by	Duration
NDE 2009	ISNT, Tiruchirappalli Chapter	December 10-12, 2009
Current Trends in Industrial Automation	IE (I), Tiruchirappalli Local Centre	February 19-20, 2010

### 8. TECHNICAL LECTURES

Our chapter has arranged the following technical lectures during this year.

16/07/2009	Application Of Flux Cored Arc Welding For T/P 91 Materials	Mr. SHEN, YING – HSIEN, TIEN – TAI, Taiwan
12/08/2009	Steels and their weldability	Mr. S. Manimozhi, Senior Manager, WRI
30/10/2009	New Generation Welding Power Sources for Conservation of Energy	Mr. Arun Kumar – MD, Technocrats Plasma Systems Pvt. Ltd. Mumbai
18/02/2010	Welding of Nickel and High Temperature Alloys	Dr. K. Manfred Rostek, Technical Director, FSH Welding Group, France

### 9. COMMITTEE MEETINGS

The executive committee has met nine times and discussed various points.

### 10. FUTURE PLANS

- **TMAQ 10**
  - Preliminary rounds on August 7, 2010 @ 7 centres
  - Semi finals and finals on August 22, 2010
- **INDUSTRIAL TOUR – AUG 2010**
- **ONE DAY WORKSHOP – DECEMBER 2010**
- **COURSE ON BASIC METALLURGY**
- **COURSE ON HEAT TREATMENT**
- **CROME 2011 IN FEBRUARY 2011 AT MAMCE**

### 12. PERSONALIA AND RECOGNITION

- Dr. (Mrs.) R. Nagalakshmi's entry titled "Origin of Life - Hatching Chicken From Egg or Egg From Hen" received honorable mention in Class 9 of the International Metallographic Contest of ASM International. She is getting such recognition for the second year in succession.



# THE INDIAN INSTITUTE OF METALS

## TIRUCHIRAPPALLI CHAPTER

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- Shri V. Thyagarajan, former General Manager (WRI & Labs) was awarded the First “Dr. G V Memorial Award” instituted by our chapter.
- Dr. S Suresh and Dr. G. Buvanashakaran were awarded Adjunct Professorship by PSGCT, Coimbatore.

**(N. Rajasekaran)**  
Hon. Secretary