

Honorary Secretary's Report for the Year 2011-2012

Respected Chairman, immediate past chairman, past chairmen, Vice – Chairmen, executive committee members, fellow members, invitees, friends from media, Ladies and Gentlemen,

A pleasant evening to you. It is a unique honour and privilege for me to present a brief report on the activities of our chapter for the year 2011-2012.

The year 2011-2012 has been a very eventful year in the annals of the chapter. While traversing back through the year 2011-2012, I feel we can have full satisfaction over the achievements and the tasks accomplished. The major highlights of the year are as follows:

- **The chapter has conducted model examination for +2 students and more than 275 students enrolled for the examinations.**
- **The chapter annexed the Best Chapter Award for its overall performance among the largest chapters of the Institute for the record 12th time and Third time in a row.**
- **Two of our nominees were elected as National Council Members for the year 2011 – 2012.**
- **Dr. V. P. Ragupathy, the renowned scientist in the field of materials processing was conferred with the Dr. G. V. Memorial Award 2010 during CROME 2011.**
- **IIM Merit Award for academic excellence to the wards of our members.**
- **254 new members including 17 life members were added during the year, which resulted in a record 36.76 % increase in Membership over last year. This is the highest ever growth achieved in the chapter's history.**
- **Three days International conference on "Foundry for Future" at Coimbatore was conducted successfully in association with Coimbatore chapter.**
- **Exclusive courses on "Awareness Programme on Mechanical Testing" and "Awareness training on Spectro Chemical Analysis OES" conducted by the chapter.**
- **Nominated student chapter members for SOJOM 2012, Mettle 2012 and for Wootz 3.**
- **Chapter represented by 10 delegates in the NMD held at Hyderabad.**
- **Chapter nominee won the first National elocution competition of the institute.**
- **METTLE 12 – a mega national level student event was conducted in association with the student chapter of National Institute of Technology, Tiruchirappalli.**
- **TMAQ 11, the mega quiz programme to select teams for BPMMQ 11 was conducted in three phases. Preliminary written round was conducted at seven centres. 401 students from 73 schools situated in the 19 districts of Tamil Nadu participated in the event.**
- **Chapter teams emerged as Winner and Third prize in the international BPMMQ 11. It is the 4th consecutive year the team from the chapter made it to the podium.**
- **The Executive committee met 9 times.**
- **Three Lecture programmes were conducted.**
- **Six issues of Metall, the house journal of IIM Tiruchirappalli chapter were brought out.**
- **National Metallurgists Day was celebrated at Chapter Office.**
- **An exclusive function to install office bearers of student chapters.**
- **Two Student chapters were added at two new colleges this year.**

1.0 MEMBERSHIP

The IIM, Tiruchirappalli Chapter has completed its thirty one 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, 2011	As on March 31, 2012
ASM	06	06
LF	01	01
LM	65	82
OM	300	315
PM	01	01
ST	318	540
Total	691	945

During the year, the chapter has enrolled 254 new members including 17 life members and sent Rs. 390125/- to HQ as subscription realised from the members.

2.0 STUDENT CHAPTERS' ACTIVITIES

2.1 METTLE 2012

The annual symposium "METTLE 2k12" was conducted between March 9 and 10, 2012 at the NIT Tiruchirappalli premises. The theme of this year's Mettle was CLEAN ENERGY, as the whole world looks ahead to solve the energy related problems. Students of all years from Metallurgy, Mechanical, Chemical, Production and other related disciplines were part of this Materials combat spread over many events such as Paper Presentation, Metallography, Venari Materia, Materials Quiz, Fabsteel, Industrial Problem Solving Contest (IPSC) and Poster Making. Besides, special guest Lectures through video conferencing from scientists in Singapore and Finland who are working in the fields of Solar Energy and Nuclear Fusion Energy respectively were also organized.

Dr. S. Suresh and Mr. R. Easwaran, Vice Chairmen were the panelist on the theme "Clean Energy". Mr. N. Rajasekaran, Hon. Secretary and Mrs. A. Santhakumari conducted the materials quiz. Dr. S. Suresh, Vice Chairman was the chief guest of the valediction function.

2.2 LECTURE PROGRAMMES

The student chapters organized several lecture programmes on various topics related to engineering in the respective colleges.

2.3 INSTALLATION OF OFFICE BEARERS OF STUDENT CHAPTERS

For the first time in the history of the chapter, the office bearers of the student chapter were installed in a centralised function held at our office premises. In a colourful function held on 1st March 2012, Mr. P. Nainar, Chairman of our chapter installed the office bearers and addressed the gathering. Earlier, Mr. N Rajasekaran, Hon. Secretary welcomed the Principals, HODs, student members, office bearers and EC members of the chapter.

Mr. R. Easwaran, Vice Chairman briefed about the genesis, importance and role of student chapters as well as about the support that could be extended by the chapter. Prof. Dr. N. Kannan, Principal, JCET, Prof. Dr. K. Kumar, Principal, MAMCET, Prof. Dr. S Natarajan, Vice Chairman, Dr. Raman Sankaranarayanan, HOD (MME) NITT, HODs of mechanical departments of engineering colleges and faculty members offered their felicitations. Mr. G Rajendran, Hon. Treasurer proposed the vote of thanks. Mr. Kathirason, chapter EC member, played a keyrole in organizing this function.

2.4 CROME 2011 (NATIONAL STUDENTS' CONFERENCE ON "MATERIALS AND THEIR PROCESSING")

The chapter organized CROME 2011 – National Students' Conference on "Materials and their Processing" – on April 7, 2011 in association with the IIM Student Chapters of NIT Tiruchirappalli, Jayaram College of Engineering and Technology and MAM College of Engineering, Tiruchirappalli. The conference included student paper presentations. The event was held at the premises of MAM College of Engineering, Tiruchirappalli. During the occasion, Dr V P Raghupathy Eminent Metallurgist was conferred the Dr GV Memorial Award 2010. Ten papers were received from a total of five academic institutions, from the southern States including from NIT Tiruchirappalli, Anna University, Tiruchirappalli, MAM College of Engineering, Tiruchirappalli, and CARE, 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 150 students – registered as author delegates / delegates, enjoyed the technical programme immensely. Even students from other branches of engineering got excited about opportunities in metals and materials.

The event was inaugurated by Mr. S. Karunakaran, then Chairman of IIM Tiruchirappalli Chapter in a colourful function on the morning. Prof. R. Varadharajan, Head (E&I), MAM College of Engineering presided over the function. Mr. N. Rajasekaran, Hon. Secretary of IIM, Tiruchy briefed about CROME 2011. Dr. N. Kannan, Principal, JCET, Thuraiyur offered his felicitations. Dr. N. Baskar, Head of Department (Mechanical), MAM College of Engineering welcomed the gathering. Mr. P. Chellapandi, Asst. Professor, Mech dept. of MAMCE proposed the vote of thanks. Best presentations by the student members were awarded during the valediction of CROME 2011. Prof. Dr. S Natarajan, HOD (MME) was the chief guest and he distributed the prizes. Dr. N. Kumar, Principal, MAMCET presided over the function. Mr. D Katherasan of NITT, summed up the proceedings. Mr. G Rajendran, Hon. Treasure of IIM Tiruchy welcomed the gathering and Mr. L M Subramanian, Convenor of CROME 2011 proposed the vote of thanks.

2.5 PARTICIPATION OF STUDENT MEMBERS IN SEMINARS AND CONFERENCES

The chapter facilitated the participation of our student members in the international workshop FASET 2011, International Welding Symposium SOJOM 2012, Mettle 2k12 and in Wootz 3.

3.0 TMAQ XI

- The Tiruchirappalli chapter of the Indian Institute of Metals conducted the "TMAQ XI" in two stages with the following objectives.
 - To create awareness on the wonderful world of materials among more + 1 and + 2 students in the Matriculation, English medium and CBSE schools in 19 districts of Tamil Nadu, Pondicherry & Karaikal areas of Pondicherry state (Thiruvannamalai, Cuddalore, Villupuram, Perambalur, Erode, Ariyalur, Tiruchy, Pudukkottai, Sivaganga, Madurai, Theni, Dindigul, Tirunelveli, Thothukkudi, Nagarcoil, Thiruvavur, Nagapattinam, Karaikal, Namakkal, Karur).
 - Selection of qualifying teams for BPMMQ 2011.
- Following are the highlights of TMAQ XI.

- TMAQ XI, brochures were printed and sent to nearly 900 schools in all the above districts.
- The EC members of IIMT, travelled to many districts to meet the principals of schools to get wider participation.
- Model Question papers were printed and sent to all schools.
- Printed question papers with 60 questions and answer sheets were used.
- 401 students from 73 schools participated in the written preliminary round held at seven centres. IIM EC members with student chapter members travelled to all the centres to conduct the quiz.
- The seven centres were divided into four regions, based on the response of pervious year. Viz.
 - i. Region A: Tiruchirappalli, Karaikudi
 - ii. Region B: Madurai
 - iii. Region C: Shankar Nagar and
 - iv. Region D: Karur, Neyveli, Nagapattinam.
- The regions were divided into two zones.
- Participation certificates were issued to all the students by IIMT.
- Out of that 25 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.
- Pen was given to all the students by IIMT.
- Top three performers at each centre were given prizes by IIMT.
- The qualified 25 teams were invited to Tiruchy on August 28, 2011.
- They have undergone a semi final oral round with 10 rounds of quizzing in the morning of 28th August 2011 simultaneously at four halls.
- Based on the rankings top six teams were selected for the finals.
- Regional winners from all the four regions were selected based on the cumulative performance in written and oral rounds.
- 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 10 rounds of quizzing.
- From that top two teams from each zone were qualified for BPMMQ 2011.
- 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. Besides, the top two regional winners from each region were awarded a cash prize of Rs. 1000/- and Rs. 600/- respectively.
- One way bus fare was given to all the participants.
- Accommodation was given to the needy students, free of cost.
- Four students out of 401 only were selected through the process. i.e 0.9975 % of participated students only were selected to represent two zones of the chapter.

3.1 PRELIMINARY ROUNDS

401 students from 73 schools participated in the written preliminary round through a written Quiz held at seven Centres in Southern Tamil Nadu (four regions covering seven centres) – **Region 1:** Tiruchirappalli, Karaikudi **Region 2:** Madurai, **Region 3:** Shankar Nagar and **Region 4:** Karur, Neyveli, Nagapattinam. 401 students from 73 schools participated in the preliminary rounds held concurrently on August 7, 2011. Following IIM EC members with student chapter members travelled to all the centres to conduct the quiz. Mr. R. Easwaran, Mr. N. Parameswaran, Mr. John Berchmans, Mr. A. Meyyappan, Mr. G. Rajendran, Mr. M. Periasamy, Mr. P. Govindaraju, Mr. K.E. Raj Gopalachari, Dr.R. Vaideeswaran, Mr. R. Ravibharath, Mr.D. Katherasan, Mr.M. Thirugnanasambandam, Mr. S. Subburaj, Mr. K. Raja and Mr. V. Sureshkumar. Prizes were given to the winners of each centre. Based on the cut off mark announced from the Tech. Committee of TMAQ 2011, the qualifiers for semifinals were selected and paired as 25 teams.

3.2 SEMI FINALS & FINALS OF TMAQ XI

The finals of the Annual Metals and Materials Quiz of Indian Institute of Metals, Tiruchirappalli Chapter, were held at NIT, Tiruchirappalli.

The semi-finals of the oral quiz were held in four halls concurrently having seven rounds of quizzing. Mr. R. Easwaran, Mr. G. Rajendran, Mr. N. Rajasekaran and Dr. R. Vaideeswaran were the quiz masters for the semifinals. The top performing six teams were selected for Finals of quiz held at A2 Hall, NIT, Tiruchy, on 28th August 2011. The ten rounds of quiz covered various facets of materials, simple elements to complex alloys; simple manufacturing processes to nano-materials; laws and phenomena in physics and chemistry to the current news in the world of materials and so on. Mr. R. Easwaran and his team members Ms. A. Santhakumari and Mr. N. Rajasekaran conducted the finals with multimedia presentation.

Cash Prizes of Rs 5000, Rs 3000 and Rs 2000 were awarded to the Top Three Teams who won the TMAQ 2011 Quiz. The top teams also qualified for participating in the Prof. Brahm Prakash Memorial Materials Quiz held at IGCAR, Kalpakkam.

The finalists were:

First Prize	Mr. S. B. Viswesh and Mr. S. Shanmuga Guru	Chinmaya Matriculation Higher Secondary School, Rajapalayam
Second Prize	Mr. A. S. Pon Aravindhan and Mr. U. Vignesh	Sri Jayendra Swamigal Silver Jubilee Matriculation Higher Secondary School, Tirunelveli
Third Prize	Mr. R. Magesh and Mr. A. Hemnath	Jawahar Matriculation Higher Secondary School, Neyveli
Fourth	Mr. S. Somasundaram and Ms. Jwala Jayendran	Sri Jayendra Swamigal Silver Jubilee Matriculation Higher Secondary School, Tirunelveli
Fifth	Mr. K. G. Renga Bashyam and Mr. M. Alakesh	
Sixth	Mr. S. Prakash and Mr. M. Gangatharan	Cheran Matriculation Higher Secondary School, Karur

The toppers from the Four Regions were also awarded cash prizes. The winners are:

Region 1:

First Prize	Mr. Syed Dharvesh N and Mr. Sooriyan	Maxwell Matriculation Higher Secondary School, Thanjavur
Second Prize	Mr. Si. Singar and Mr. S. Vignesh	BHEL Matriculation Higher Secondary School, Tiruchirappalli

Region 2:

First Prize	Mr. T. Franklin Britto and Mr. C. Nagarajan	Velammal MHSS, Madurai Madurai Meenakshi MHSS, Madurai
Second Prize	Mr. R. Shyam Sundar and Mr. B. Arunraaj	Madurai Meenakshi MHSS, Madurai

Region 3:

First Prize	Mr. K. G. Renga Bashyam and Mr. M. Alakesh	Sri Jayendra Swamigal Silver Jubilee Matriculation Higher Secondary School, Tirunelveli
Second Prize	Mr. S. Somasundaram and Ms. Jwala Jayendran	Sri Jayendra Swamigal Silver Jubilee Matriculation Higher Secondary School, Tirunelveli

Region 4:

First Prize	Mr. R. Magesh and Mr. A. Hemnath	Jawahar Matriculation Higher Secondary School, Neyveli
Second Prize	Mr. S. Prakash and Mr. M. Gangatharan	Cheran Matriculation Higher Secondary School, Karur

3.3 VALEDICTION OF TMAQ XI

The prize distribution session, which followed immediately, was presided over by Mr. S. Karunakaran, GM. BHEL, Tiruchy and Immediate Past Chairman, IIM, Tiruchirappalli Chapter. Speaking on the occasion, he lauded the efforts of the IIM Tiruchirappalli in organizing such events for the benefit of the student community. Dr. S. Sundararajan, Director, NIT, Tiruchirappalli was the Chief Guest. Felicitating the students, he stressed that all are winners in a Quiz, as everyone gained knowledge through the event. He recalled the heritage of ancient Indian metallurgy seen in Swami Malai investment castings and the swords of Salem. He said that the current Indian scene is poised to take India to a technologically glowing 2020 for India, as envisioned by Dr A P J Abdul Kalam. Special alloys for defence applications, nano-technology, bio-materials were all growing in leaps and bounds. He wished the students a glorious education and career in the field of materials. Dr S. Natarajan, Head, MME, NIT, Tiruchy, felicitated the students and organizers. Mr. R. Easwaran, Vice Chairman, IIM, Tiruchy, and Chairman, TMAQ-2011, who was also the Quiz Master, briefed about the efforts of IIM, Tiruchy Chapter in organizing such a Quiz for the 20th year in succession. Mr. Jayendran, Director, Sri Jayendra Swamigal Silver Jubilee Matriculation Higher Secondary School, Tirunelveli spoke on the occasion and had words of praise for the efforts of the team IIM. Earlier, Mr. N. Parameswaran, Convener, TMAQ 2011, welcomed the gathering. Mr. N. Rajasekaran, Hon. Secretary, IIM, Tiruchy Chapter proposed a vote of thanks.

4.0 MERITORIOUS AWARD 2011

The meritorious awards of IIM Tiruchy for the year 2011 for the students who excelled in their 10th and + 2 examinations were distributed on the same day. The students were selected from the wards of the members of IIM Tiruchy. The following are the winners of this year.

+ 2 students

Ms. RAJASHREE M	Meikandavelu D	I	RSK HSS
Mr. ARUNAN V	Veeramani G	II	RSK HSS
Mr. SURENDRAN R	Ragupathy R	III	SRV MHSS

10th Students

Ms. RAMYA BH ARATHI S	Hemalatha C	I	RSK HSS
Ms. D IVYA BHARATHI M	Muthumani V	II	KV, CECRI, Karaikudi

Mr. S. Karunakaran, imm. Past Chairman (IIM Tiruchy) distributed the awards and the meritorious certificates to the students who came along with their happy parents. The top three awards carried a cash prize of Rs. 2000/-, Rs. 1500/- and Rs. 1000/- respectively for +2 and 10th standards. The awards were presented during the valediction of TMAQ XI. The two member committee consisting of our EC members Mr. M Jayaraj and Mr. S Subburaj coordinated this activity.

5.0 INTENSIVE TRAINING TO THE TEAMS FOR BPMMQ 2011

Prior to their departure to BPMMQ, the teams were invited to Tiruchy. The chapter provided free accommodation and boarding for the teams as well as to the teachers at Tiruchy for their comfortable stay. The student chapter members under Dr Raman provided intensive training to the teams on various topics. Mrs. A. Santhakumari and Dr. R Vaideeswaran conducted mock up quizzes for them. Mr. N Rajasekaran gave valuable tips about Dumb Charades round. Mr. K Raja and Mr. N Parameswaran made all the arrangements for the teams. Mr. P Nainar, Chairman (IIM Tiruchy) and Mr. R. Easwaran, vice chairman (IIM Tiruchy) gave tips to face the quiz confidently.

6.0 BPMMQ 2011

Mr. M. L. Mohammed Ismail, the EC member of IIM Tiruchy accompanied the teams to Kalpakkam. In the well organized programme, two teams from IIM Tiruchy entered into the finals. The teams from the chapter got the appreciation of the quiz master Dr. Sumanth. Two teams from the chapter emerged as the winners and as the third best team. The 4th successive victory shows the dedication of the students, the teachers especially from Mr. Jayaendra Saraswathi Silver Jubilee MHSS and team IIM Tiruchy.

7.0 CHAPTER NOMINEE WON THE FIRST EVER NATIONAL ELOCUTON CONTEST OF IIM

The chapter's nominee Ms. Jwala Jayandran of Shri Jayendra Saraswathi Silver Jubilee MHSS, Tirunelveli brought laurels to the chapter in the first ever national level Elocution Contest conducted at Kolkata on 28th July 2011 by IIM, by winning the First Prize. 26 selected students from all over the country participated in the event in which the students exhibited their oratory skill on "Metallurgy & Materials – My perceptions".

8.0 FELICITATION TO THE WINNERS OF BPMMQ 2011

The EC of the chapter decided to felicitate the teams participated in BPMMQ 2011 and achieved the 4th successive finish at the victor's podium.

Mr. A V Krishnan, Executive Director of BHEL, Tiruchirappalli complex, NC member of IIM and Patron of the chapter was kind enough to spent time with the students along with the first lady of BHEL Mrs. Rajam Krishnan.

The function was organized at Hotel SRM Annex on December 7, 2011. All the students were invited along with their parents as well as teachers and principals. Mr. N. Rajasekaran, Hon. Secretary welcomed the gathering.

Mr. R. Easwaran presented the journey from TMAQ XI to BPMMQ XI. He appreciated the students as well as their schools for their dedication. He also highlighted the efforts put by each members of IIM Tiruchy EC for this tremendous achievement.

Mr. P. Nainar, Chairman (IIM Tiruchy) who presided over the function congratulated the winners and appreciated the EC for its untiring efforts. He requested the EC to continue to work for the objectives of IIM and advised it conduct events for the polytechnic students.

Mrs. Rajam Krishnan, first Lady of BHEL complex distributed books to the students as a memoir. During his address Mr. A V Krishnan said, "Participating in such competitions will not only hone the skills but also foster the culture of team work in the minds of the students. While preparing for such competitions, the students get an opportunity to go beyond their text books which will enlarge their knowledge base". He appreciated the services of IIM Tiruchy under the chairmanship of Mr. Nainar. He advised the EC to carry out more such activities which will be more beneficial to the younger generations of the country.

Past Chairman Mr. G Uma Shanker, Mr. Jayendran, Correspondent of Mr. JSSSMHSS, Tirunelveli and EC members of IIM Tiruchy graced the occasion. A delicious dinner was served to all those present in the meeting.

9.0 GET TOGETHER MEETS

The chapter had organised a lecture programme on "LIFE LINE OF WELDING LOW HYDROGEN ELECTRODES MOISTURE RESISTANT E-7018 H4R & E 7018-1 H4R" at Tiruchirappalli on April 7, 2011. The event was organized in association with Indian Welding Society. Mr. N. Rajasekaran, Hon. Secretary of the chapter welcomed the gathering and introduced the speaker. Mr. M P Dhanuka, Executive Director (Tech & Mktng) of GEE Limited, Thane and a Veteran in the field of welding consumables delivered the lecture in which chapter members and student chapter members participated and got benefitted. Over 60 participants attended the programme. Mr. G Rajendran, Hon. Treasurer of the chapter proposed the vote of thanks. A delicious dinner was hosted for the participants.

On April 7, 2011, the chapter AGM was conducted at the institute premises. All the members of the chapters were invited along with their spouse and children to attend the meeting. Fun games & Tambola were conducted for the spouses and children. Prizes were distributed to all the winners.

On May 25, 2011, the chapter organised a get together cum technical lecture programme with participation from members of IIM, IWS and BHELSEA at Hotel Breeze Residency. Mr. Tony Zhang, Overseas Project Gen. Manager, Wise Welding Technology & Engineering Co.ltd, China delivered a talk on "Automation in boilers production". A dinner was hosted for the members.

On December 7, 2011 the chapter celebrated the triple achievements during the year viz. winning the Best Chapter for the 12th time, winning the first national elocution competition of the institute and the 4th successive win in BPMMQ along with the family members of the Executive committee of IIM, Tiruchy. Our Patron Mr. A V Krishnan, Mrs. Rajam Krishnan, our Chairman Mr. P. Nainar, Mrs. Pankajam Nainar and the EC members with their families attended the function and the dinner.

On March 1, 2012, a get together with the student chapter members was organized and EC members of IIM Tiruchy participated in the programme.

10.0 DURGA POOJA / AYUDHA POOJA AT IIM TIRUCHY OFFICE

The chapter celebrated the "Durga Pooja" / "Ayudha Pooja" on October 05, 2011 at the Institutions building along with the Indian Welding Society, The Indian Institute of Welding, Computer Society of India and the Indian Institute of Plant Engineers. The EC members of IIM Tiruchy led by Mr. P Nainar, Chairman participated in the pooja celebrations. Sweets and gifts were distributed to all EC members and staff working in the building.

11.0 TEAM IIM TIRUCHY AT NMD - ATM, HYDERABAD

12 delegates including the Chairman, Secretary, Vice Chairman, Imm. Past secretary, Treasurer and EC and

NC members attended the NMD – ATM held at Hyderabad during November 13 – 16, 2011.

12.0 PARTICIPATION IN HQ MEETINGS

The chapter representatives attended the Chapter Relations Committee Meeting held at Hyderabad and NC meeting held at New Delhi and Hyderabad.

13.0 MODEL EXAMINATION FOR + 2 STUDENTS BY IIM

The Tiruchirappalli chapter of IIM, joined hands with M/s Omega Tuition Centre, Tiruchirappalli in conducting a model preparatory examination for the students of + 2, who were going to appear in this year's Public Examination. The exams enabled the students to assimilate themselves to the environment of the actual examination. The question papers were set by experienced teachers in the pattern of the state examination. The 275 students who registered for the examinations said, "By attending the examination, we were able to evaluate ourselves and it will be good for us to know our weaknesses and improve upon for the final examinations". Many parents expressed their happiness and gratitude to the chapter for making this new venture and requested the chapter to continue its services.

On 22nd January 2012, Mr. P. Nainar inaugurated the programme. In his inaugural address he advised the students to work more in a smarter way to get higher marks in the examinations. He complimented the students for taking up the examination and it is a better way to prepare for the board examinations. Mr. Arunachalam, SDGM (Valves), BHEL, said, "Students participating in such exams in the past came with flying colours in the board examinations".

Mr. Sridhar, Mr. Samuthira Pandi and Mr. Nallasivan, coordinators of the programme briefed the students about the pattern of the examination. Mr. N. Rajasekaran, Hon. Secretary welcomed the gathering. Mr. N. Parasmeswaran proposed the vote of thanks. In total seven examinations were conducted covering Maths, Physics, Chemistry, computer science and Biology subjects in 7 consecutive Sundays. The exams were conducted at the BHEL Matric, HSS, with the support of the school management and Principal.

The evaluated answer sheets were distributed on 13th February 2011. The teachers who evaluated the answer sheets were present during that occasion and clarified the doubts and queries of the students.

14.0 WORKSHOPS AND SEMINARS

14.1 Workshop on "PROCESS AND QUALITY IMPROVEMENT THROUGH ARC WELDING SIGNATURE ANALYSIS" on 18 - 19 April 2011

The chapter co-organised and nominated 20 student chapter members, free of cost, for the workshop on "Process and Quality Improvement through Arc Welding Signature Analysis". Univ.-Prof. Dr.-Ing. Habil Dietrich Rehfeldt, Leibniz University Hanover, Germany was the main faculty and Dr. A Raja, Dr K Asokkumar, Mr. C P Ravichandran of WRI were the other faculties. The workshop covered the following areas.

- Introduction to Arc Physics and Power source.
- Evaluation of arc welding Power Sources through signature analysis.
- Metal transfer mechanism in GMAW process.
- Signature to defect correlation and method for Quality improvement.
- Effect of flux coating composition on process characteristics.
- Analysis Welding Consumables and their effect through signature analysis. On-line Process Monitoring.

Mr. N Rajasekaran, Secretary and Mr. G Rajendran, Treasurer and Mrs. A Santhakumari, EC member were the co-ordinators of the workshop.

14.2 Three day International conference on “Foundry for Future” at Coimbatore between October 14 -16, 2011

The chapter joined hands with the Coimbatore chapter and the Trade India Fairs and Exhibitions Pvt Ltd, Coimbatore in organising a three day international conference on “Foundry for Future 2011” between October 14 and 16, 2011 at Vijaya Fair Grounds, Trichy road, Coimbatore. The event was organized concurrent to the Foundry Tech 2011 exhibition organized by the Trade India Fairs and Exhibitions Pvt Ltd, Coimbatore. Eminent speakers from WRI, BHEL, BEML, MAGMA, TATA motors, leading foundries and various valve industries have participated. The deliberations covered various aspects of foundry like casting problems in new materials like CF12, productivity improvement, energy management, NDT Techniques, Moulding process, Pollution control, casting repair, heat treatment, modern manufacturing techniques, simple mechanisation & automation, application of welding in castings, robotics, health and safety and inspection and quality control etc. Mr. R. Sundar, Director of Bolers, Tamil Nadu inaugurated the three day event in which over 150 delegates from various foundries and industries participated as delegates. Mr. P. Soundararajan, General Manager, BHEL, Tiruchirappalli was the guest of honour. In his address he stressed the importance of developing castings of advanced materials like P91, etc. Dr. S. Suresh, Vice Chairman, IIM Tiruchirappalli chapter briefed about Foundry for Future 2011. Earlier Mr. N. Rajasekaran, Hon. Secretary welcomed the gathering. Mr. N. Parameswaran, Convenor, FFF 2011 proposed the vote of thanks. Prof. P.C. Angelo, Vice Chairman, IIM Coimbatore Centre presided over the function. Mr. Mahesh, TIFE, Coimbatore offered the felicitations.

Dr. S. Sundarrajan, Director, NIT Tiruchirappalli delivered the keynote address on the theme of the conference.

Mr. P. Nainar, Chairman, IIM Tiruchirappalli chapter was the chief guest for the valedictory function. Mr. J. Krishnamurthy, Hon. Secretary, IIM Coimbatore centre welcomed the gathering. Dr. P. Gopalakrishnan, HOD, Metall. Department, PSG Tech, Coimbatore summed up the proceedings. Dr. R. Rudramoorthy, Principal, PSG Tech., Coimbatore addressed the gathering. Mr. K. Ramalingam, General Manager, TIFE and Mr. D. Balasundaram, MD, TIFE offered the felicitations. Mr. G. Rajendran, Hon. Treasurer proposed the vote of thanks.

14.3 Pre tutorials on Foundry practices for artisans

On October 14, 2011, a pre tutorial session was organised by the chapter for the benefit of the artisans working in various foundries in and around Coimbatore. Dr. Kumaresh Babu of NIT, Tiruchirappalli, Mr. Kuppusamy of PSG foundries and Mr. Ramalingam of TIFE were the faculties of the pre tutorial sessions which was conducted in the vernacular language, Tamil. More than 100 artisans participated and got benefitted from the lectures.

14.3 Vendor – User group meet on Foundries

On 16th October 2011, the vendor – user meet was conducted at the same premises. Mr. P. Soundararajan, GM, BHEL inaugurated the programme. Mr. P. Raguraman, AGM, BHEL and Mr. S. Kumar then AGM, BHEL were present during the meet.

15.0 LECTURE PROGRAMMES AT POLYTECHNIC COLLEGES

On 7th June 2011, Mr. K Radhakrishnan, Former Sr. Manager of BHEL delivered Lectures at Jayaram Polytechnic College and Imayam Polytechnic College, Tiruchirappalli. The theme of the talk was “Construction and Working Principle of Power Boilers”. At the programme at Jayaram Polytechnic, Mr. P Muthusamy, Principal welcomed the gathering. Dr P Kumar, HOD (Mech) of JCET introduced the speaker. Over 75 3rd year mechanical engineering students participated in the programme. Mr. A Senthil, Lecturer, Jayaram Polytechnic College proposed the vote of thanks.

On the same day, in the afternoon session, a programme was conducted at Imayam Polytechnic College,

in which over 125 students participated. Mr. A Rajasekaran, Principal, Imayam Polytechnic college welcomed the speaker and the gathering. Mr. R Ravishankar, HOD (Mech) of the same college of introduced the speaker. Mr. Katherasan, our EC member and student chapter co-ordinator arranged the programmes. These programmes are arranged in association with the student chapter of JCET.

On April 4, 2012 a lecture programme on specifications and function of thermal boilers was conducted by Mr. K. Radhakrishnan, EC member at Jayaram Polytechnic. More than 65 students participated in the programme. Mr. P. Muthuswamy, Principal presided over the function. Mr. V. Prathap, HOD , Mechanical department welcomed the gathering.

16.0 Dr. GV MEMORIAL LECTURE AWARD 2010

Dr. GV Memorial Lecture Award 2010 was conferred on the eminent metallurgist Prof. Dr. V.P. Raghupathy, PES Institute of Technology, Bangaluru on April 8, 2011 during the national students 'conference CROME 2011 held at MAM College of Engineering, Tiruchirappalli. During the occasion Shri N Rajasekaran, Hon. Secretary of IIMT chapter welcomed the gathering and paid rich tributes to Dr. G. Venkataraman.

On this occasion Dr. V. P. Raghupathy delivered a lecture on "Laminated composites". In his lecture he highlighted, the components in sandwich composites and their applications. Lecture also dwelt upon the properties of sandwich components and the possible modes of failure in sandwich panel. Ms. A. Santhakumari adorned a shawl on Mrs. Hema Venkataraman during the occasion. Shri K. Radhakrishnan, Joint Secretary, IIMT introduced Dr. V. P. Raghupathy to the audience. Shri S. Karunakaran presented the memorial award plaque to Dr. V. P. Raghupathy. Shri E. Rajagopalachari proposed the vote of thanks.

17.0 SUPPORTS TO PROFESSIONAL ACTIVITIES

During the year, the chapter has co-organised / supported the following events organized by the professional bodies and institutions.

- Two day International conference on "**Fabrication of Structurals-Emerging Technologies (FASET 11)**" at **Tiruchirappalli with IWS.**
- International Symposium On Joining Of Materials 2012 (SOJOM 2012) at **Tiruchirappalli during January 19-22, 2012 by IWS.**
- Two day national seminar on "Modern Construction Methods and Materials" by the Institution of Engineers (I) at Tiruchirappalli between September 9 and 10, 2011.

18.0 TECHNICAL LECTURES

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

1	7, Apr. 2011	Mr. M P Dhanuka, <i>ED- Gee Limited, Mumbai</i>	LIFE LINE OF WELDING – LOW HYDROGEN ELECTRODES	IWS & IIM	SK Mazumdar Hall
2	25, May 2011	Mr. Tony Zhang, <i>Overseas Project Gen. Manager, Wise Welding Technology & Engineering Co.ltd</i>	Automation in Boiler Industries	IWS, IIM, IIW & BHELSSIA	Hotel Breeze Residency
3	8, Nov.2011	Mr. Conti Silvano Italiana, <i>Stelin Industrial- Italy</i>	Orbital Welding techniques	IWS, IIM & IIW	SK Mazumdar Hall

19.0 EXECUTIVE COMMITTEE MEETINGS

The executive committee has met 9 times during the year and discussed various points.

20.0 PERSONALIA AND RECOGNITION

During the year 2011 - 12, many of our members received much recognition for their outstanding performances. Few of them are listed below.

- Dr. S. Suresh, Vice Chairman and Dr. N. Raju, Associate Member received SOJOM Flash Forge Award for the best practical technical paper.
- Dr. R. Vaideeswaran, ECM was awarded INSAAN BEST TECHNICAL PAPER PRESENTATION CONTEST award for “Innovation for growth” presented in the 22nd INSAAN national convention held at Jamshedpur on 12th Nov. 2011.
- Dr. A. Raja, member received the “Ador Fontech SOJOM Plenary Award” for his contributions in the field of automation in welding.
- Mr. N. Dhanasekaran, Associate member received the “Betz SOJOM Plenary Award” for his contributions in the field of NDT of weldments.

ACKNOWLEDGEMENT

I sincerely thank Mr. A V Krishnan, our Patron and Executive Director, BHEL, Tiruchy, for inspiring us with new directions and we record our gratitude to him. Under the stewardship of our Chairman Mr. P. Nainar, our chapter has achieved many laurels and achieved bench mark performances, as it was acknowledged by other chapters during the NMD celebrations at Hyderabad. All these laurels are the results of his concerted efforts, encouragement and guidance. Thank you very much Sir, for leading us to glory and to put the chapter as the loner in the summit. The active involvement, guidance and encouragement given by the Vice Chairmen of our Chapter Dr. S. Natarajan, Mr. R. Easwaran and Dr. S. Suresh made things possible during this year. To be specific, the active support of Prof. Dr. Natarajan, made us to achieve the record increase in membership during this year. Thank you sir. Mr. Easwaran’s leadership in helped us in emerging as the winner in BPMMQ for the fourth successive year. Thank you sir. Dr. S. Suresh, inspired us to conduct the 4 day training programme on grade 91 materials in April this year, which become a runaway success as Fab 91. Thank you sir.

My sincere thanks to Mr. G. Rajendran, Treasurer and Mr. A Meyyappan, Joint Treasurer, for their excellent services. The executive committee members have played a key role in making this year eventful. I thank each and every one of them for their excellent support. I am highly indebted to our immediate past secretary Mr. N Parameswaran and Mr. S. Karunakaran, Immediate past chairman for their unstinted support for the growth of the chapter. I am grateful to Mr. R Sundar, Director of Boilers, Tamil Nadu, Mr. S. Sakthivel, Dy. Director of Boilers, Mr. Murali, Dy. Director of Boilers, Mr. T A Daniel Sahayaraj, DDOB and others for their whole hearted support to our workshops.

I am thankful to our past chairmen especially Mr. G Uma Shanker and Mr. V. Thyagarajan and other senior members.

I sincerely thank the Chairman, Secretary and committee members of other professional bodies IWS, IIW, IE (I), CSI, ISNT and IIPE for their contributions in organizing our chapter activities. We have worked hand in hand throughout the year. We are grateful to number of organisations for making all their resources at our disposal for our activities. To name a few, the BHEL, Tiruchy, NIT, Tiruchy, Cethar Vessels Pvt. Limited, VeeSons Energy Systems, JCET, MAMCE, MAMCET, SACET, CECRI, Karaikudi, etc. On behalf of the chapter I am expressing our sincere thanks to Dr. S. Sundarrajan, Director of NITT, HOD and staff members of Department of Metallurgical & Materials Engineering for their active participation and support to our

activities. I am thankful to the management, Principal and faculty of Jayaram College of Engineering Technology, MAM College of Engineering, Shri Angalamman College of Engineering and Technology, MAM College of Engineering and Technology for their kind support extended to the chapter. I record our appreciations and thanks to the office bearers of the student chapters of NITT, JCET, MAMCE, SACET and MAMCET.

I will fail in my duty, if I am not going to record the unstinted support and co-operation by the managements, principals, head masters and staffs of the following schools, who were readily agreed to our request to conduct the preliminary rounds of TMAQ XI.

- RSK Higher Secondary School, Tiruchirappalli
- Aadarsh Matric Higher Sec. School, Nagappatinam
- Sankar Higher Secondary School, Sankar Nagar
- Jawahar Matriculation Higher Secondary School, Neyveli
- Meenakshi Matriculation Hr. Sec. School, Madurai
- Central Electrochemical Research Institute, Karaikudi
- Cheran M HSS, Karur.

I am grateful to the entire TMAQ 11 team and especially Mr. R. Easwaran, Prof. Raman Sankara Narayanan, Dr. K Asokkumar, Mr. N. Parameswaran, Dr. R. Vaideeswaran, Mrs. A. Santhakumari, Mr. S. Nikhil, Mr ML M Ismail and others who made it possible for our team to be the winner in the international BPMM Quiz. I appeal them to work more vigorously this year to retain the awards this year also. I am expressing our profuse thanks to the senior executives of BHEL & other Industries for their support and encouragement. I thank Ms. Premila Mary, Ms. Selvi Kamachi, Ms. Latha, Mr. M V Narasimman, & Mr. N. Subramanian office staff for their support for the execution of our day today activities. The support we received from the Kailasapuram Club and KCTV throughout the year is really helpful to the chapter. I convey our thanks to the President, Secretary, Treasurer and managing committee members for their support. I thank our auditor Mr. S. V. Seetharaman for auditing our accounts and preparing the statement of accounts for the year 2011 - 12. I would like to thank every one of you for the excellent support and co-operation extended towards the activities of our chapter and requests you to continue the same for the coming years also so that our chapter will scale newer peaks in the forthcoming years.

Thank you one and all.



(N. Rajasekaran)
Hon. Secretary