ACHIEVEMENTS OF THE CHAPTER (2011-2012)

FOR THE CHAPTER EXCELLENCY AWARD
Achievements of ASM International Chennai Chapter in 2011-12

FOR CHAPTER EXCELLENCY AWARD

ASM International Chennai Chapter is known for the dynamic performance in the forefront of materials science education and practice. Our multifaceted activities in the year 2011-12 are remarkable as usual. Our Chennai Chapter established the collaborations with the other professional societies in and around Chennai and organized several technical talks and workshops and seminars of significant interest. ASM Chennai Chapter, Madras Metallurgical Society, The Indian Institute of Metals, Indian Institute of Foundry men and Indian Welding Society has jointly organized several technical talks during the year.

1. The technical evenings enabled to develop a deeper understanding between these five professional societies and to foster friendship amongst the members.

2. We have opened up a consultancy cell for providing solutions for industrial problems and this year the response was encouraging. The expanded network with industries attracted more delegates for our workshops and as well as for the technical meetings.

3. The chapter organized several social and cultural events. The activities of the Chapter have led to its receiving the Five Star Award for the Eleventh Consecutive Year.

4. The six Materials Advantage Student chapters at IIT Chennai, IIT Kharagpur, Mailam Engineering College, Manakula Vinayaka Engineering College, PSG College of Technology and National Engineering College,
Kovilpatti have also performed well. A new Materials Advantage Chapters from Vellore Institute of Technology is formed in this year.

5. Chennai Chapter is the most vibrant chapter in student chapter activities

6. Chennai Chapter is forefront in promoting continuing education for industry professional and students by giving advance in-house training and certification programs. This year we have conducted program at TAFE and Manakulam Vinayagar Engg College.

7. We have celebrated the Silver Jubilee function to commemorate the 25 years completion of chapter formation. ASM International President Prof. Christopher Berndt graced the event as the Chief Guest and delivered the lecture to 200 metallurgical fraternity of chennai. Chennai Chapter brought out the Souvenir as part of this celebration.

8. ASM International Chennai Chapter presented awards to two young metallurgists, and to Medium and Small Scale Industries for their outstanding contributions in the fields of metallurgical education, research and industry. This was presented in the Silver Jubilee function by Prof. Berndt.

9. During 2011-2012, we have organized two focused workshops. A Two-day workshop on Failure Analysis was organized on 18th & 19th December, 2011 at Hotel Jaya Pushpam Chennai and 78 delegates have participated in the workshop. One more Two-day workshop on Corrosion Control and Monitoring was conducted on 14th and 15th Feb, 2012 at Indian Institute of Technology, Chennai. Both the activities were made possible because of the excellent teamwork of the executive committee and wholehearted support of the enthusiastic members.


11. Chennai Chapter always aligned to the interest of the head quarters and having constant communication on several programs. Mr. V.L Sridharan, Chairman attended the leadership day’s event at Cleveland during August 2011.

We are proud to announce that the Chapter will always be looking forward to receive innovative ideas from its members to increase the number of activities of the Chapter. ASM International Chennai Chapter has been made into a reputed professional body in India. The credit goes to the excellent team work of Executive Committee of the Chapter.

Mr. V.L Sridharan
EXECUTIVE COMMITTEE OF THE CHAPTER

2012-2013

Chapter Executive Committee 2012-2013

<table>
<thead>
<tr>
<th>CHAPTER: Chennai</th>
<th>DISTRICT: INDIA</th>
</tr>
</thead>
</table>

The positions on this page are strongly recommended and these officers have access to the online Officer Tools Workspaces.

Please note that this information is used in the updating of chapter officer contact information in the ASM International master database.

**CHAIR:**

Member ID Number: 406049

Name: B.K. Venkatesh

Company: Techmat Enterprises India P. Ltd

E-mail: vankat@hotmail.com

**SECRETARY:**

Member ID Number: 470933

**VICE CHAIR:**

Member ID Number: 540406

Name: Dr. T. Sundararajan

Company: Wheels India Limited

E-mail: sundarajan_t@wheelsindia.com

**TREASURER:**

Member ID Number: 036876
Name: **Mr. N. Sampath Kumar**  
Company: Ambattur Metal Treaters  
E-mail: amtheat@eth.net

**WEBMASTER:**  
Member ID Number: 709380

Name: **Mr. T.V.K. Kidao**  
Company: Madras Metallurgical Services Pvt Ltd  
E-mail: mmspl@vsnl.com

**ONLINE MEMBERSHIP CHAIR:**  
Member ID Number: 531131

Name: **Dr. S.R. Bakshi**  
Company: IIT, Madras  
E-mail: sbakshi@iitm.ac.in

**MEMBERSHIP CHAIR:**  
Member ID: 037268

Name: **Dr. U. Kamachi Mudali**  
Company: Indira Gandhi Atomic Research  
E-mail: kamachi@igcar.gov.in

Name: **D.G. Sastry**  
Company: VAP Induction (India) P.Ltd  
E-mail: vapindia@vsnl.net

Roster Updates:  
To update your officer roster throughout the year please contact the Chapter Relations Administrator with the name, member number and title of the officer position they will hold.  
440-338-5151 ext 5651  
Chapters@asminternational.org  
Members can update their contact information on the ASM website by logging in.
The positions on this page are **optional** based on the needs of your Chapter.

<table>
<thead>
<tr>
<th>Position</th>
<th>MEI CHAIR:</th>
<th>EDUCATION CHAIR:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member ID Number</td>
<td>Member ID Number: 409098</td>
<td>Member ID Number: 409098</td>
</tr>
<tr>
<td>Name:</td>
<td>Name: Dr. A. S. Gandhi</td>
<td>Name: Mr. V. P. Parthasarathy</td>
</tr>
<tr>
<td>Company:</td>
<td>Company: Dept of metal &amp; Mater. Eng IIT Chennai</td>
<td>Company: Brakes India Ltd</td>
</tr>
<tr>
<td>E-mail:</td>
<td>E-mail: <a href="mailto:a.s.gandhi@iitm.ac.in">a.s.gandhi@iitm.ac.in</a></td>
<td>E-mail: <a href="mailto:omplas@yahoo.com">omplas@yahoo.com</a></td>
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<th>Position</th>
<th>PROGRAM CHAIR:</th>
<th>PUBLIC RELATIONS CHAIR:</th>
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<tr>
<td>Member ID Number</td>
<td>Member ID Number: 408999</td>
<td>Member ID Number: 186449</td>
</tr>
<tr>
<td>Name:</td>
<td>Name: Mr. C. S. Ponnambalam</td>
<td>Name: Mr. Parthasarathy</td>
</tr>
<tr>
<td>Company:</td>
<td>Company: Madras Metal Treaters Automotive Ltd</td>
<td>Company: Wave Current</td>
</tr>
<tr>
<td>E-mail:</td>
<td>E-mail: <a href="mailto:customercare@ahtpl.com">customercare@ahtpl.com</a></td>
<td>E-mail: <a href="mailto:welmech@vsnl.com">welmech@vsnl.com</a></td>
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<th>Position</th>
<th>AWARDS CHAIR:</th>
<th>LONG RANGE PLANNING CHAIR:</th>
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<td>Member ID Number</td>
<td>Member ID Number: 25354</td>
<td>Member ID Number: 178449</td>
</tr>
<tr>
<td>Name:</td>
<td>Name: Mr. A. Krishnaswamy</td>
<td>Name: Dr. K. Bhanu Sankara Rao</td>
</tr>
<tr>
<td>Company:</td>
<td>Company: Malar Metallurgy Consultants</td>
<td>Company: University of Hyderabad</td>
</tr>
<tr>
<td>E-mail:</td>
<td>E-mail: <a href="mailto:malarmmc2006@yahoo.co.in">malarmmc2006@yahoo.co.in</a></td>
<td>E-mail: <a href="mailto:kbsrse@uohyd.ernet.in">kbsrse@uohyd.ernet.in</a></td>
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<th>Position</th>
<th>STUDENT AFFAIRS:</th>
<th>YOUNGMEMBERS CHAIR:</th>
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<tbody>
<tr>
<td>Member ID Number</td>
<td>Member ID Number: 465717</td>
<td>Member ID Number:</td>
</tr>
<tr>
<td>Name:</td>
<td>Name: Dr. B. S. Murty</td>
<td>Name: Dr. M. Vasudevan</td>
</tr>
<tr>
<td>Company:</td>
<td>Company: Dept of Metall &amp; mater IIT Chennai</td>
<td>Company: Indra Gandhi Atomic Research</td>
</tr>
<tr>
<td>E-mail:</td>
<td>E-mail: <a href="mailto:murthy@iit.ac.in">murthy@iit.ac.in</a></td>
<td>E-mail: <a href="mailto:vasudevan@igcar.gov.in">vasudevan@igcar.gov.in</a></td>
</tr>
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<tr>
<th>POSITION</th>
<th>EXECUTIVE COMMITTEE MEMBER:</th>
<th>EXECUTIVE COMMITTEE</th>
</tr>
</thead>
</table>
MEMBER:

- Member ID Number: 4854
  - Name: Dr. Baldev Raj
  - Company: PSG INSTITUTION, COIMBATORE
  - E-mail: baldev@psg.in

- Member ID Number: 577197
  - Name: Dr. P. Sivakumar
  - Company: CVRDE, Chennai
  - E-mail: dir@cvrde.drdo.in

EXECUTIVE COMMITTEE MEMBER:

- Member ID Number: 462782
  - Name: Dr. Gowrishankar
  - Company: IP Rings LTD, Chennai
  - Email: ng@iprings.com

EXECUTIVE COMMITTEE

- Member ID Number: 462782
  - Name: M. Kamaraj
  - Company: IIT Chennai
  - Email: kamaraj@iitm.ac.in
Incoming Officer Signature Page

We, the undersigned chapter officers have read and understand our chapter by-laws. We understand and accept our responsibilities to our local chapter and to ASM International®, as the parent society.

B.K. Venkatesha
Chapter Chair
Signature

Date
06/13/2012

Dr. T. Sundararajan
Chapter Vice Chair
Signature

Date
06/13/2012

N. Sampath Kumar
Chapter Secretary
Signature

Date
06/13/12

T.V.K. Kidao
Chapter Treasurer
Signature

Date
06/18/12
TECHNICAL PROGRAM FOR THE CHAPTER

2012-13
2012-2013 Chapter Technical Program Plan

<table>
<thead>
<tr>
<th>Month</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>June 22-23</td>
<td>Metallurgy for Non-Metallurgist Two Days Training Program</td>
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<tr>
<td>July 7th</td>
<td>Development of Quenching probe for Heat Treatment applications</td>
<td>Prof. Prasanna Kumar, Indian Institute for technology, Madras</td>
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<td>July 17-21</td>
<td>Metallographic Techniques Certification/Training Program</td>
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<td>August</td>
<td>Corrosion Management in Supply Chain Mr. C. Mathews, Cortec India</td>
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<tr>
<td>September</td>
<td>In-house training Program on Metallurgy Tractor and Farm Equipment</td>
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<tr>
<td>October</td>
<td>Heat Treatment Operator Course One week Training Program</td>
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<tr>
<td>November</td>
<td>Materials Knowledge For Better Design Dr. T. Sundararajan, Wheels</td>
<td></td>
</tr>
<tr>
<td>December</td>
<td>Magnetic Induced Arc Butt Welding Mr. Shanmuga Rajan, Welding Research</td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>Hydro forming and its applications To be decided</td>
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<tr>
<td>February</td>
<td>Nano materials coating for tribological applications Mr. Manoj</td>
<td></td>
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<tr>
<td>March</td>
<td>Recent Advancement in Bio Materials Prof. T. S. Samapth Kumar, Indian</td>
<td></td>
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<tr>
<td>April</td>
<td>Materials for Fast Breeder Research program Dr. P. Venugopal, FASM,</td>
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<tr>
<td>May 16-18</td>
<td><em>International Conference and Exhibition</em> Heat Treatment and Surface</td>
<td><em>International Conference and Exhibition</em></td>
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<td></td>
<td><em>Engineering HT&amp;SE13 &amp; 27th Surface Modification Technologies SMT-27</em></td>
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</table>
ANNUAL REPORT OF THE CHAPTER 2011-2012

BY THE SECRETARY
ASM International Chennai Chapters Annual Report (2011-12)

1. Chairman’s Message

The chapter has stepped up the activities and performed very well. The recognition of our Chapter as their Knowledge Partner by TAFE, a leading tractor manufacturer in India is a proof of the capability of our EC members. The growing support of Small and Medium scale Industries in this part of the country encourages us to widen our activities.

In this year we have completed 25 years excellence function. To commemorate the event SILVER JUBILEE function was celebrated. The visit of the President of ASM International was a memorable and distinct recognition to our untiring work to the metallurgical society in this zone. There are several activities took place in this year but I wish to highlight a few.

- We have conducted useful training programs for the industries and academic professionals in the area of basic metallurgy failure analysis and corrosion.
- Ten evening lecture programs by eminent engineers and academicians were conducted. Details enclosed
- Two family cultural programs and get-together has helped to bring member and their families closer.
- Chennai Chapter hosted the ASM India Council meet on 28th May 2012
- The Chairman attended the Leadership day Event at Cleveland during Aug 2011
- We have nominated our Vice Chairman Prof. B.S. Murti to ASM Board.
- We have started the preliminary activities for the International Conference to be conducted during May 2013.
- The effort taken to add more student outreach program is expected good result in the coming year

Getting Five Star Awards for the eleventh consecutive year and the hope to get Chapter Excellence Award has motivated our Executive Members.

V.L. Sridharan
Chairman, ASM International Chennai Chapter

2. Awards and Honours

(Received by the Members of ASM International, Chennai Chapter)

- Dr. Baldev Raj, FASM, Selected as President of Indian National Academic of Engineering (INAE)
- Dr. P. Venugopan, MASM Scientist, Indira Gandhi Centre for Atomic Research has been awarded Fellow of ASM International for the year 2011-12.
- The ASM International Chennai Chapter received the FIVE STAR AWARD from the ASM International for the Eleventh successive year.
- Mr. M. Vasudevan, MASM, Prof. B.S. Murty, MASM, Dr. K. Bhanu Shankara Rao MASM and Prof. K. Prasad Rao, MASM have been serving as Key Readers of the Metallurgical and Materials Transactions A.
- Dr. U. Kamachi Mudali MASM, and Associate Director, Corrosion Science and Technology Group of Indira Gandhi Centre for Atomic Research, Kalpakkam bagged Prestigious Group Achievement Award for the year 2011 from Department of Atomic Energy, India

<table>
<thead>
<tr>
<th>Month</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 4, 2011</td>
<td>Magnesium as an Automotive Material – Opportunities and Challenges</td>
<td>Kumar Sadayappan, CANMET Materials Technology Laboratory, Canada</td>
</tr>
<tr>
<td>July 19, 2011</td>
<td>Fatigue Performance of Weld Structure</td>
<td>Prof. Hobbacher, Germany</td>
</tr>
<tr>
<td>Aug 1, 2011</td>
<td>Materials behavior and Manufacturing Aspects of High Performance Powder Metallurgical Tribological Components</td>
<td>Karthik Nagarathnam, UTRON Kinetics LLC, USA</td>
</tr>
<tr>
<td>Oct 20, 2011</td>
<td>METAL MATRIX COMPOSITES: Futuristic Materials for Automotive &amp; Aerospace Applications</td>
<td>Dr. C. S. Ramesh, Department of Mechanical Engineering, PESIT, Bangalore</td>
</tr>
<tr>
<td>9th Dec, 2011</td>
<td>Combined Microanalysis using EDS+WDS &amp; EDS+EBSD with SEM/FESEM</td>
<td>Mr. Pat Camus, Senior Application Scientist, Thermo Fischer Scientific Madison, USA</td>
</tr>
<tr>
<td>19th Dec, 2011</td>
<td>Tensile testing in SEM: An introduction with illustrative application examples in the metal /materials industry.</td>
<td>Dr. Andrew Searle Product Manager Gatan, UK</td>
</tr>
<tr>
<td>2nd Jan 2012</td>
<td>Metallurgical Analysis Of Fatigue Failure</td>
<td>Mr. S. Sivashankaran, Consulting Metallurgist, Nsl Analytical Lab, Cleaveland, Ohio</td>
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<tr>
<td>14th Feb 2012</td>
<td>Indian Steel Industry: present and the way Forward: TVN KIDAO memorial Lecture</td>
<td>Dr. T. Venugopalan, Chief Technology Officer, TATA Steels Limited, INDIA</td>
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<tr>
<td>28th Feb, 2012</td>
<td>Potential Areas Of Education And Research In Metallurgical Engineering Relevant To Manufacturing Industries</td>
<td>Dr. H. M. Roshan, Adjunct Professor, University of Wisconsin, Milwaukee, USA</td>
</tr>
<tr>
<td>7th May, 2012</td>
<td>Nano-Material Based NDE Technique For Damage Assessment</td>
<td>Dr. Vaidehi Ganesan, Indira Gandhi Centre for Atomic Research, Kalpakkam</td>
</tr>
</tbody>
</table>
4. Report on Annual General Body Meeting (AGM) at Madras Cricket Club:

Annual General body meeting with family get together was held on 24th July 2011 at Madras Cricket Club (MCC) Chepauk, Chennai. Most of the members participated in the meeting along with their families. The program was started with welcome address by the Mr.V.L. Sridharan, chairman ASM International Chennai Chapter. Financial statement for the year was presented by Treasurer Mr.T.V.K.Kidao and annual reports on various activities held in the year 2010-11 was presented by Dr.T.Sundararajan Hony. Secretary, ASM International Chennai Chapter. Announcement of Elected Office bearers & Executive Committee Members for the year 2011-12 was made by chapters former chairman Mr.D.G.Sastry. Dr.P.Sivakumar, Director CVRDE and advisor of the executive committee of our chapter and Mr.V.Parthsarathy, immediate past president of India National Council were delivered their special addresses on improvement in chapter activities. The meeting was entertained with Dance and performance show by GOPI Media Entertainment followed by a special dinner

5. ASM International Five Star award to Chennai Chapter & Attending Leadership Program

Chennai Chapter Chairman Mr.V.L.Sridharan visited ASM HQ to attend Leadership days from 4th Aug 2011 to 7th Aug 2011 at Ohio, Cleveland. During his visit he has received the five star award for our chapter on the 9th year in succession and received the same from the president of ASM International Dr Mark F.Smith, The ASM India Council were represented by MUMBAI, PUNE, GUJARAT Along with CHENNAI CHAPTER.

Our chairman met the new president Prof.Christopher.C.Berndt and invited him to attend SILVER JUBILEE CELEBRATIONS OF OUR CHAPTER. The president informed that he along with Managing director Mr.Stanley Theobald is planning a visit to India, Mumbai in Feb 2012 & our function can be held at that time and he will participate.

6. New Office Premises for AMS International Chennai Chapter Opening ceremony on 30th July 2011

Yet another milestone in our chapter’s growth! ASM international Chennai chapter is being functioned in the premises of Madras metallurgical serviced for last 26 years. With increased activities of our chapter in recent times and need to locate very near to the industrial hub, we have moved to a new office at Anna Nagar, Chennai. The inaugural function was held on 30th July at 5.00 pm by lightening a kuthuvillakku, a traditional way of inauguration process. Several members attended the function and impressed the interior arrangements made in the office. The new office will also host a library with collection of several books related to Materials Science along with ASM Hand book series.

7. Report on In-house training course on Metallurgy for Non-Metallurgists at Tractor and Farm Equipments (TAFE) Ltd, Chennai

After successful completion of first in-house course at Tractor and Farm Equipments Limited (TAFE), a leading agriculture equipment manufacturer last year with excellent feedback from the participants, the corporate invited our chapter to conduct the course for the second consecutive year. Also Chennai Chapter is proud to announce that TAFE designated our chapter as knowledge partner.
The course Metallurgy for Automotive Engineers is specifically designed to suit the need of the Tractor and Farm Equipments (TAFE) Ltd. Around 50 young engineering professionals from various functions such as Design, Development, manufacturing, Supply Chain and Marketing are participated in the program. Pre and Post course assessments were made for the attendees to evaluate their learning from the course. The results showed that the 35% increase in the knowledge and understanding on Metallurgy.

8. Report on Two day workshop on Failure Analysis held on 18-19 Nov, 2011 at Hotel Jaya Pushpam, Chennai

A Two-Day Course on Failure Analysis was conducted on March 4-5, 2011 at Hotel Jayapushpam, Chennai by ASM International Chennai Chapter. Mr.V.P.Parthasarathy, General Manager Brakes India Limited and Dr.T.Sundararajan Deputy General Manager, Wheels India Limited are steered the course with 10 invited lectures. The course was attended by 78 participants from industry, research laboratories and academia. The course attracted several industrial domains such as automobiles, oil-gas, wind energy and process industries.

The topics covered in the course consists of approach to failure analysis, Materials Characterization Scanning Corrosion, wear, welding, design and elevated temperature failure and analysis methodologies. Material Characterization techniques such as Principles of X-ray Diffraction, Residual studies measurements by X-ray diffraction, Scanning Electron Microscopy, Non Destructive Evaluation and Principles of Fractography are widely covered. More emphasis is given to case studies with four different lectures.


Chennai Chapter commemorated its silver Jubilee celebrations for the successful completion of 25 years of chapter activities. The celebrations is held on 14 Feb 2012 at Hotel Rain Tree, Chennai.

The Chennai chapter of ASM international is in forefront in fulfilling the mission of ASM international orbit with concrete projects. The activities of the Chennai chapter in the past 25 years are abundant, by way of organizing monthly technical lectures, training programs, international conferences, free consultancy support to Small and Medium Entrepreneurs in imparting technical knowledge, solving industrial problems,

Prof. Christopher Berndt, President, ASM International participated in the great and grand event, and delivered the presidential address to the gatherings. The event was attended by 200 participants from various academic, research institutions and Industries. Mr.James Golsen, Principle Commercial Officer, US Consulate, Chennai, Dr.T.Venugopalan, Chief Technology officer of TATA STEELS and Dr.P.Renavikar, Chairman ASM International, India National Council are the dignitary Guest of the event along with Prof. Berndt. The event was ended with Kara-oke music party and banquet dinner.
10. Report on Two Day workshop on Corrosion Prevention and Control and Monitoring

On the part of Silver Jubilee Celebrations, Training Course on “Corrosion Prevention and Control” was held during 14 – 15 February, 2012, SR at IIT Madras, Chennai, jointly by ASM Chennai Chapter and NIGIS South Zone. The course was inaugurated by Prof. Christopher Berndt, President, ASM International, USA and Chief Guest of the function. He has highlighted three important points of being ASM member, which includes benefits, networking and services, and the coordination between ASM and NACE in establishing Corrosion Network Analysis. Around 100 people Participated in the program from various industries and academic institutions.
11. Report on India National Council meet held at Hotel Jaya Pushpam

ASM International Chennai Chapter hosted the India National council meet on 28th April 2012 at Hotel aya pushpam, Chennai. Mr.V.L.Sridharan, Chairman of our Chapter welcomed the office bearers of National council and chapter representatives. Dr.Renavikar, Chairman, India National Council conducted the proceedings. Members from Pune, Bengaluru, India and Gujarat were attended along with Chennai chapter members. The national council meeting was ended with Dinner hosted by our Chapter.

12. Executive committee Meetings

ASM International Chennai Chapter strongly believes in executive committee meeting the one always shapes our planned events into success. In this year we have assembled 11 times for taking several actions and succeeded as a team. Following are the details of our meetings:

- 1st E.C. Meeting held at Madras Cricket Club on 15th Jul 2011
- 2nd E.C. Meeting held at ASM Office on 24th Aug 2011
- 3rd E.C. Meeting held at Anna Nagar Towers Club on 2nd Nov 2011.
- 4th E.C. Meeting held at ASM Office on 8th Dec 2011
- 5th E.C. Meeting held at Anna Nagar Towers Club on 2nd Jan 2012
- 6th E.C. Meeting held at ASM Office on 21st Feb 2012
- 7th E.C. Meeting held at Hotel Jaya Pushpam on 11th Feb 2012
- 8th E.C. Meeting held at Madras Cricket Club on 11th March 2012
- 9th E.C Meeting held at ASM Office on 15th April 2012
- 10th E.C. Meeting held at Anna Nagar Towers Club on 19th May 2012
- 11th E.C Meeting held at Hotel Jaya Pushpam on 07th June 2012

13. New Look To Our Web Site

ASM international Chennai chapter operates its website (http://www.asmintl-chennaichapter.org) which host several information including office bearers, activities, future plans and milestones etc. The website is recently updates with several other features which includes the face life to home page is more user friendly menu bars, frequent update on technical programs in the event section, photographs of the events in the gallery, Year long activities of technical lectures and workshops. The new websites also hosts the separate section for the industrial consultancy along with application form. After the redesign of the site significant increase in the hit count is noted.
Dr. T. Sundararajan

Hony Secretary, ASM International Chennai Chapter
Student Chapter Activities
Material Advantage Chapter of Indian Institute of Technology Madras
Annual Report
Year Reported: June 2011 – March 2012

Mailing Address
Material Advantage Chapter of IIT Madras
Department of Metallurgical and Materials Engineering
Indian Institute of Technology Madras, Chennai – 600036
Tamilnadu, India

Website: http://masiitm.webs.com
E-mail: matadviitm@gmail.com

Student Chapter Executive Committee:

Chairman : Pramod S. L (slpramod@gmail.com)
Vice Chairman : Niraj Chawake (niraj.chawake@gmail.com)
Secretary : Manasi Paraswar (manasi.iit.madras@gmail.com)
Treasurer : Bobu Manuel Jolly (bobujolly@gmail.com)

Student Chapter Faculty Advisor

Dr. Srinivasa Rao Bakshi
Assistant Professor, Department of Metallurgical and Materials Engineering
Indian Institute of Technology Madras, Chennai, India-600036
Ph. +91-44-22574781
Fax. +91-44-22574752
Website: http://mme.iitm.ac.in/sbakshi

E-mail: sbakshi@iitm.ac.in
About the Chapter

The Material Advantage chapter of Indian Institute of Technology, Madras was founded in November 2002 whence it was known as the Student Chapter of ASM International. Having started with 22 members, the chapter has come a long way through the years with a current strength of 48 members, thanks to the efforts put forth by our enthusiastic members, exuberant office bearers and faculty advisors (past and present).

Some of our previous achievements are:

Summary of Annual Activities (June 2011 – March 2012)

Our chapter organised a series of events during the fiscal year. The details of all the activities are given below.

Material Matters

The MA-IITM chapter has been issuing a monthly poster named “MATERIAL MATTERS” since September 2011. Every month we issue the poster on advanced engineering materials and recent research achievements in the field of Materials Science. The activity has helped in making the student community aware of the recent happenings in the field Materials and also popularized our chapter among the student community in the institute.

AQAD (A Question A Day)

AQAD was inarguably the most successful event conducted by our chapter during the current
academic year. Each day a question from the field of material science and metallurgy was sent by e-mail to all the students in the institute. The students have to just reply the answer. Three students who gave the maximum number of correct answers were rewarded with attractive prizes. The event saw large scale participation from the student community and gave MA more popularity among the students in the institute.

Invited Lectures

MA-IITM, had invited prominent personalities from diverse fields in material science to give lectures in their respective areas of expertise. The following lectures were hosted in the current academic year:

<table>
<thead>
<tr>
<th>Date</th>
<th>Name of the Speaker</th>
<th>Topic of presentation</th>
<th>Organisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-7-2011</td>
<td>Dr. T. P. D. Rajan</td>
<td>Functionally Graded Materials</td>
<td>CSIR India</td>
</tr>
<tr>
<td>22-10-2011</td>
<td>Prof. B. S. Murty</td>
<td>High Entropy Alloys</td>
<td>IIT Madras, India</td>
</tr>
<tr>
<td>8-12-2011</td>
<td>Prof. Ravi Ravindran</td>
<td>Aluminium and Magnesium Casting</td>
<td>Ryerson University, Canada</td>
</tr>
<tr>
<td>14-2-2012</td>
<td>Prof. Chris Berndt</td>
<td>Thermal Spray Processing to Achieve Nanostructures</td>
<td>President ASM International</td>
</tr>
<tr>
<td>9-3-2012</td>
<td>Dr. Dan Fabijanic</td>
<td>Surface coatings – Nanostructured Intermetallic Layers</td>
<td>Institute for Frontier Materials, Deakin University, Australia</td>
</tr>
</tbody>
</table>
Technical Paper and Poster presentation

Our chapter along with the Department of Metallurgical and Material Science Engineering, Indian Institute of Technology, Madras organized a Technical Paper and Poster presentation competition for the undergraduate students of the institute.

Small statistics of the competition are as follows
Total number of Oral presentations: 18
Total number of Poster presentations: 23

Interaction with School Children

The MA-IITM organized a presentation on Nanotechnology for the high school students to help in getting an insight into this fascinating field. The presentation also emphasized the importance of
Nano technology in all fields. The presentation received an overwhelming participation from the students.

Chapter Executive Meetings

The first meeting was held on June 2, 2011. The executive members along with the chapter faculty advisor charted out the events calendar for the year 2011–12. Executive meetings were held subsequently in first week of every month to check the progress of the chapter.

Members

The chapter’s strength is our members who have played an active role in almost all the activities. The current strength of the chapter is

<table>
<thead>
<tr>
<th>Degree</th>
<th>Renewals</th>
<th>New members</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>B Tech</td>
<td>00</td>
<td>02</td>
<td>02</td>
</tr>
<tr>
<td>M.Tech</td>
<td>00</td>
<td>09</td>
<td>09</td>
</tr>
<tr>
<td>M.S</td>
<td>03</td>
<td>08</td>
<td>11</td>
</tr>
<tr>
<td>Ph.D</td>
<td>05</td>
<td>21</td>
<td>26</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>08</strong></td>
<td><strong>40</strong></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>
# CHAPTER OFFICER LIST

**Chapter Name:** Material Advantage Chapter of Indian Institute of Technology Madras  
**Chapter Type:** √ Material Advantage  _TMS  ___ASM Only  Academic Year: 2012-13

<table>
<thead>
<tr>
<th>FACULTY ADVISOR</th>
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</thead>
</table>
| **Name**        : Dr. Srinivasa Rao Bakshi  
| **Member I.D.#** : 452054 (TMS), 709380 (ASM)  
| **Address**     : Department of Metallurgical and Materials Engineering,  
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<table>
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<tr>
<th>CHAIR</th>
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</table>
| **Name**: Pramod S. L  
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<tr>
<th>VICE CHAIR</th>
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</table>
| **Name**: Niraj Chawake  
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<tr>
<th>SECRETARY</th>
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| **E-Mail**: manasi.iit.madras@gmail.com |

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<th>TREASURER</th>
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</table>
| **Name**: Bobu Manuel Jolly  
| **College Mailing Address**: Department of Metallurgical and Materials Engineering,  
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| Chennai, India 600036  
| **Phone**: +91 8939075314  
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Photographs of Executive Committee 2012-2013

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Email: sbakshi@iitm.ac.in
STRATEGIC LONG RANGE PLAN FOR FIVE YEARS

2012-2016
ASM INTERNATIONAL CHENNAI CHAPTER
STATEGIC LONG RANGE PLAN FOR FIVE YEARS 2001-16

• Establishing a permanent premises for the chapter
• Doubling the individual and sustaining membership
• Creation of five new student chapters
• Moving the chapter to doorstep of industry for solving the technical problems
• Bringing scientific and research culture in the industries of sustaining members
• Making chapter as the strong base for automotive and heat treatment sectors
• Spreading the cooperative technical culture among the professional societies
• Promoting members and sharpening the knowledge to take up the challenging assignments
• Developing the youngsters as new leaders of the chapter
• Development of the membership of the chapter with good mix of scientist, technologist, industrialist, teachers and students
• Bringing the medical doctors into ASM fold as promoters of bio materials and engineering field
• Make the consultancy cell stronger to raise the revenue of the chapter
• Spreading activities of ASM to regular distribution of the various pamphlets
• Nurturing the members to win regularly national and international awards and recognition
• Harnessing the skill of the members to serve several committees of ASM International
• Make the executive committee meeting as carrying and meeting place for the spouses and their children to promote cultural understanding
• Raising the funds for promoting ASM sports and cultural program teams
• Expand the horizon of the chapter to remote and rural part of the country
• Knitting the technical programs of the chapter keeping the changing trends of the technology in mind
• Bringing the upcoming industry leaders to the chapter for enthusing the members by the success stories
• Making Indian council activities a grand success
• Establishing a good rapport with ASM-IIM lectures and invite them to the chapter
• Organizing certification course in local language to gross root workers
• Servicing a s the base for information on recruitment of metallurgist as qualified personnel
• Organizing international conference on material related subjects.