Executive Committee
Dr. U. Kamachi Mudali, Chairman
IGCAR, Kalpakkam
Dr. T. Sundararajan, Vice Chairman
Wheels India Ltd.
Dr. M. Kamaraj, Vice Chairman
IIT Madras
Mr. N. Sampath Kumar, Secretary
Ambattur Metal Treaters
Dr. Srinivasa Rao Bakshi, Joint Secretary
IIT Madras
Mr. R. J. Venkatesh, Treasurer
Savita Oil Technologies
Mr. V. P. Parthasarathy, Chair: Education
Brakes India Ltd.
Mr. B. K. Venkatesh, Chair, Awards
Techmat Enterprises India P. Ltd.
Mr. S. Shankar, Chair Membership Development
Caterpillar India Pvt. Ltd.
Mr. C. Renganathan, Chair, Interchapter Relations
Chennai Metco
Ms. U. Uthara, Web administrator, Chair - Cultural
Inside Exploration Technologies
Mr. C. S. Ponnambalam, Chair: Innovative programme
Ambattur Heat Treaters
V. L. Sridharan, Chair, Long term planning
Consultant
Dr. T. M. Sridhar, Chair: Online Membership
Dept. of Chemistry, Univ. of Madras
Mr. S. R. Balasubramaniam, Chair: Industrial Tours
and lab courses
Microlab
Mr. V. Parthasarathy, Chair: Public Relations
Wave Current Automotive Ltd.
Dr. V. R. Chari, Chair: Young Professional development
& promotional activities
GH Induction Pvt. Ltd..
Mr. Gopal Kidao, Chair: Student Activities
Madras Metallurgical Services Pvt. Ltd.
Mr. Fanish Tiwari, Chair: Student Outreach
Caterpillar India
Dr. B. S. Murty, EC Member
IIT Madras
Mr. R. G. Sadagopan, EC Member
Mr. S. P. Rajinikanth, EC Member
Ambattur Heat Treaters
Mr. Arun Natarajan, EC Member
Renault Nissan Technologies
Mr. V. Kumarsubramanian, EC Member
Tube Investments India Pvt. Ltd.
Mr. D. Ravi Kumar, EC Member
Stanadnye Amalgamations Pvt. Ltd.
Mr. T. Kalyanasundaram, EC Member
Indaid Furnaces
Mr. V. Natarajan, Volunteer
M/S Bimetal Bearings Limited
Mr. Sajikumar, Volunteer
Maxwarm Engineering
Mr. Gunasekaran Volunteer
Consultant Metallurgist
Dr. Veerabadran Volunteer
MIT Chromepet

Advisors
Dr. Baldev Raj
Professor, NIAS, Bangalore
Dr. P. Sivakumar
Director, CVRDE, Chennai
Dr. N. Gowrishankar
Director, IP Rings, Chennai
Mr. V. Gopinath, Advisor
MD, Fluidtherm Technology, Chennai

Address for Correspondence
ASM International Chennai Chapter
Pearl Apartments,
Plot No: 2113, 13th Main Road,
Anna Nagar, Chennai - 600 040.
E-mail: asminternationalchennai@gmail.com
www.asmintl-chennaichapter.org/
Awards won by the Chapter

ASM International Chennai Chapter was selected as Chapter Award Winner under Category I for the following areas

- Communications
- Young Professional Engagement

In recognition of its outstanding achievement in the Area of Communications, ASM International is pleased to acknowledge the

CHENNAI CHAPTER
As a Chapter Award Winner Category I for the 2015-2016 Chapter Year

Signed this 12th day of August, 2016

Jon D. Tirpak, PE, FASM
ASM International President

Ms. Anne Stockdale
ASM Chapter Council Chair

In recognition of its outstanding achievement in the Area of Young Professional Engagement, ASM International is pleased to acknowledge the

CHENNAI CHAPTER
As a Chapter Award Winner Category I for the 2015-2016 Chapter Year

Signed this 12th day of August, 2016

Jon D. Tirpak, PE, FASM
ASM International President

Ms. Anne Stockdale
ASM Chapter Council Chair
ASM International Chennai Chapter presents several awards to its members in recognition of their excellence and contribution to the chapter activities. Following are the awardees for 2016:

### Industry Excellence Award
- GH Induction India Pvt. Ltd.
- Bimetal Bearings Ltd.

### Emerging Professionals Achievement Award
- Mr. N. Arun  

### Outstanding Professionals Achievement Award
- Dr. Srinivasa Rao Bakshi  
  Dept. of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai
- Mr. V. Kumarasubramaniam  
  Senior General Manager (L&D), Tube Investments of India Ltd.

### Excellent Professional Achievement Award
- Mr. D. Ravi Kumar  
  AGM –Metallurgical Services, Stanadyne India Pvt. Ltd.

### Distinguished Professionals Achievement Award
- Dr. P. Sivakumar  
  Distinguished Scientist & Director, Combat Vehicles Research & Development Establishment, DRDO, Avadi, Chennai
- Dr. U. Kamachi Mudali  
  Director, Materials Chemistry and Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research, Kalpakkam

### Life Time Achievement Award
- Mr. V. Raghunathan  
  Director (Metallurgy), Fluidtherm Technology (P) Ltd.

### Outstanding Contribution Award
- Mr. B. V. Venkatesh  
  Director, Endotherm Fluids India Pvt. Ltd., Techmat Enterprises India Pvt. Ltd.
- Dr. SundararajanThiyagarajan  
  Head -Research & Development, Wheels India Ltd.

### Membership milestone certificates

#### Long Memberships – Individual more than 30 years
- Mr. A. Krishnaswami - Since 1979
- Prof. V. Raghavan since - Since 1984

#### Long Memberships - Sustaining Members
- Wheels India Limited - Since 1981
- Mr.T.V.K. Kidao  
  Madras Metallurgical Services - Since 1984
- Mr. V. Parthasarathy  
  Wave Current Thermal Processes- Since 1985
- Mr. S. Narayanan  
  Bimetal Bearings Limited - Since 1986

#### Members who have completed 5 years
- Mr. Fanish Tiwari - Caterpillar India Pvt. Ltd. - Since 2011
- Dr. Srinivasa Rao Bakshi – IIT Madras - Since 2011

#### Members who have completed 15 years
- Mr. B. V. Venkatesh, Techmat Enterprises India Pvt. Ltd. - Since 2001
- Prof. M. Kamaraj, IIT Madras - Since 2001
- Mr. Sudarsan Varadaraj, Elgitread Rubber Company Ltd. - Since 2001

The awards were presented by Mr. Jon Tirpak, President, ASM International, in the presence of Dr. T. S. Sudarshan, Trustee, ASM International and Prof. Ravi Ravindran, Past President, ASM International.
Activities of the Chapter

Annual General Body Meeting

• Annual General Body Meeting was held on August 28, 2016.
• It was well attended and the new committee took over the activities of the chapter.
• The chairman, Dr. Kamachi Mudali, welcomed the members and after a round of introductions, the new members were welcome.
• The Secretary, Mr. Sampathkumar, presented the activities of the previous year and the awards received by the chapter.
• Several suggestions were obtained for improving the chapter activities, membership development and chapter visibility.
A meeting with Mr. Jon Tirpak, President ASM International, was organized on 16th Oct. 2016.

The Meeting was graced by Dr. T. S. Sudarshan, Trustee, ASM International and Prof. Ravi Ravindran, Past President, ASM International.

Mr. Tirpak interacted with the members and served as a chief guest for the Chapter Awards function

Mr. Tirpak also presented a technical talk on “Additive Manufacturing: Can it replace castings”
Activities of the Chapter

Technical Lectures

• A technical talk on Advanced Methods in Welding of Automotive Steels was delivered by Dr. Murugaiyan Amirthalingam, Assistant Professor, Department of Metallurgical and Materials Engineering, IIT Madras, Chennai on 6th Aug. 2016. This event was jointly organized with Madras Metallurgical Society and Indian Welding Society Chennai Centre.

• A technical talk on Influence of intrinsic solidification behaviour on quality of stainless steel products was delivered by Dr. Santanu Kr. Ray, Steel Chair Professor, Dept of Metallurgical and materials Engineering, IIT Madras, Chennai on 10th Sept. 2016. This event was jointly organized with Madras Metallurgical Society.

• A Technical talk on Materials development, processing and cost effective manufacturing aspects of high performance powder metallurgical components was delivered by Dr. Karthik Nagarathnam, Senior Materials Scientist/Manager-Materials Research, UTRON Kinetics LLC, Manassas, Virginia, USA on 8th Nov. 2016. The talk was organized jointly with Madras Metallurgical Society.
2016-2017 PRESIDENT OF ASM INTERNATIONAL

WILLIAM E. FRAZIER

Dale L. Moore, Director for Strategy and Innovation, Deputy Assistant Secretary of Defense for Research, Development, Test, and Evaluation, Washington

It is my honor and privilege to introduce ASM International’s new president, Dr. William E. Frazier, FASM. Bill and I have known each other for over 25 years through our involvement in naval aviation research, development, acquisition, and support where he works as the Navy senior scientist for materials engineering as well as chief scientist of the air vehicle engineering department at the Naval Air Systems Command. Bill demonstrates a unique set of gifts and talents that have helped make the U.S. Navy and naval aviation what it is today—poised at the leading edge of technology and operating continuously in one of the harshest environments known to man.

Bill is driven by the pursuit of excellence and a sense of mission and purpose. He understands how to mentor and lead others to achieve new possibilities and greater heights of success. I like to think of Bill as a polymath who understands how complex systems and organizations work together, and how to make them the best they can be. He facilitates the creation of new knowledge and is a continuous learner who asks insightful questions that make people think—and rethink—the incredible possibilities before them. Bill has always been a great supporter of ASM and often takes the initiative to explore new possibilities and channels for creating value. His ability to both adeptly lead and manage to achieve real and meaningful results has always been his hallmark, but it is his care for people and wise counsel that make him who he is today.

BACKGROUND AND CAREER

Bill grew up poor in Philadelphia with his mother and brother, as his parents were separated. He learned the value of hard work at an early age, working long hours after high school. With the intent of studying pre-med, he earned a full scholarship to Temple University. After some soul searching, Bill

BELIEFS AND VISION

Bill has outlined four beliefs that will guide his actions as president of ASM International. First, he believes that ASM is a society of professionals who do great things together that cannot be done individually. Second, ASM can provide maximum value to society and our profession by working at the intersection of design and engineering, manufacturing, and materials. Third, Bill believes that ASM’s shared values of transparency, integrity, technical excellence, diversity, and constancy of purpose are the great enablers. And fourth, that ASM’s future is bright and that we have numerous opportunities to contribute to our nation and our global society in meaningful and impactful ways that can literally change the world.

Bill understands that ASM is at a pivotal point in its trajectory. With the global expansion of knowledge now occurring at an unprecedented pace, we have a world full of new possibilities from the technical aspects of materials science and engineering to new and unique processes and applications, to the way that we synergize our efforts and collaborate for the greater good, to how we share and create new knowledge and innovation, and to the way that we apply that knowledge to ever-expanding applications. Both materials and manufacturing are entering a renaissance that will empower ASM to explore new domains of materials and manufacturing that were not on the radar just a few years ago. In our 103-year history, there has never been a more exciting time and a greater opportunity for leadership at ASM.
married his high school sweetheart and the love of his life, Janet, and started working a variety of jobs that sparked his interest in materials—their properties, characteristics, and how to manufacture them. It was then that he decided to pursue an engineering degree at Philadelphia Community College and later transferred to Drexel University as a materials engineering major. Bill’s life took on a new purpose as he had found his profession, his passion, and his community—which included ASM International.

Upon graduation in 1981, Bill went to work for the Naval Air Development Center (NADC) in Warminster, Pa. NADC is responsible for all the research and development activities that support naval aviation aircraft and systems. While there, he established a rapid solidification laboratory, powder processing facility, and transmission electron microscopy/x-ray diffraction capability. As he worked during the day to develop advanced materials for naval aviation, he continued his studies at Drexel to earn his M.S. and Ph.D. degrees in materials engineering in 1984 and 1987. He was then selected for the prestigious NAVAIR Senior Executive Leadership Development Program (SEMDP), which included a four-month residential advanced program management curriculum at the Defense Systems Management College. This move helped transform his adept technical and management skills into formidable, executive-level leadership skills.

Bill was then selected to be NAVAIR’s first national competency leader for metals, ceramics, and nondestructive inspection. In this role, he was responsible for the end-to-end success of materials research, engineering, and support including over 60 scientists, engineers, and technicians located across six national sites. He also transitioned and established new advanced laboratory capabilities in the Becker Materials Laboratory at Patuxent River, Md., as part of the 1995 base realignment and closure transition of NADC to Southern Md. In this role, Bill led the aerospace materials division’s quest to obtain dual certification in ISO 9001 and ISO/IEC Guide 25—a first in the federal government, setting a new bar of excellence for naval aviation and the Department of Defense.

In his capacity as national competency leader, Bill adeptly balanced and synergized a wide range of activities across the lifecycle and was responsible and accountable for safety and certification in these domains for all legacy, current, and future naval aviation platforms and systems. Bill led a number of “first time” efforts including AerMet 100 steel, which transformed naval aviation with high strength, corrosion-resistant landing gear and arrestment systems.

Bill was promoted in 2005 into the Navy’s executive board as the Navy senior scientist for materials engineering where he serves as the chief scientist for NAVAIR’s air vehicle engineering department. Based on his long record of achievements, accomplishments, and respect across the technical community, he was subsequently selected to be a NAVAIR Esteemed Fellow—an honor limited to 0.3% of NAVAIR’s scientists and engineers. Bill has become a key strategic thought leader with significant influence on future naval aviation plans, and he has been the technical architect and driving force behind a number of critical strategic thrusts including: additive manufacturing; nanomaterials and metamaterials technology; durable aircraft materials and structures; corrosion-resistant alloy development; erosion-resistant rotor blade materials; and integrated structural health management.

Bill has authored over 90 publications, edited six books, and holds two U.S. patents. He was inducted as an ASM Fellow in 1996, and served as an ASM trustee from 2003-2007. He has also served on numerous committees including the AeroMat Committee and the Emerging Technologies Awareness Committee. Today, he continues to serve as associate editor for the Journal of Materials Engineering and Performance and is a key reader for Metallurgical and Materials Transactions A.

**HIS PROMISE**

Bill promises to do everything in his power to help lead ASM in pursuing these possibilities, reaching new heights of excellence, and achieving what has never been achieved to address both our most formidable challenges as well as our most enabling opportunities. His vision and promise include two major goals: ASM will be the number one provider of materials information in the form and manner that customers can most effectively and efficiently use no matter what field they work in or where they work; ASM will grow in membership, technical excellence, education, and strategic collaboration and partnerships.

Bill is passionate about leading ASM and is determined to see it thrive and contribute to our society in meaningful and profound ways. He thanks ASM for this humbling opportunity and will do all he can to make our 104th year the most productive and effective it can possibly be. —AM&P
Upcoming Events

• A two day workshop on Practical Failure Analysis and Case Studies is planned on 3-4 Feb. 2017. The instructor for this course is Ms. Debbie Aliya of Aliya Analytical Inc., USA. This workshop is jointly organized with Madras Metallurgical Society.

• A two day course on Metallurgy for Non-metallurgists is planned in April 2017. The convenors for this workshop will be Mr. V. P. Parthasarthy and Dr. T. Sundrarajan.

Welcome to New Members

**Individual Members**

- Dr. Santanu Kr. Ray  
  Metallurgical & Materials Engineering, IIT Madras
- Mr. K. Gunasekaran  
  Consultant - Metallurgy
- Mr. Abhilaash Ajit Kumar  
  Chennai Metco
- Dr. Murugaiyan Amirthalingam  
  Metallurgical & Materials Engineering, IIT Madras
- Dr. Sushanta K Panigrahi  
  Dept. of Mechanical Engineering, IIT Madras
- Mr. Ramaswamy Jayaraman  
  Consultant

- Dr. K. M. Veerabadran  
  Dept. of Chemistry, MIT, Anna University
- Dr. T. M. Sridhar  
  Dept. of Analytical Chemistry, Madras University
- Mr. Vignesh S  
  Ambattur Metal Treaters
- Dr. V. S. K. Venkatachalapathy  
  Director cum Principal, Sri Manakula Vinayagar Engineering College, Puducherry
- Dr. A. Thiagarajan  
  Sri Manakula Vinayagar Engineering College, Puducherry

**Sustaining Members**

- Mr. Muralishankar Sambavams  
  JMD-Super Auto Forge Pvt Ltd
# Membership Form

Start enjoying the many advantages of membership. Join ASM today!

## India New Member Application

ASM International brings you the best technical resources, conferences, expositions, courses, meetings, and professional networks! ASM offers a variety of individual membership options to meet your needs as well as Affiliate Society memberships for a low annual fee.

### Individual Membership Options (select only one)

<table>
<thead>
<tr>
<th>Option</th>
<th>Annual Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASM Only (includes a one-time $10 initiation fee, renews at $54 per year)</td>
<td>$64.00</td>
</tr>
<tr>
<td>EDFAS – Electronic Device Failure Analysis Society Only</td>
<td>$88.00</td>
</tr>
<tr>
<td>ASM Student Membership (full-time middle or high school)</td>
<td>$15.00</td>
</tr>
<tr>
<td>Material Advantage Student Membership (<a href="http://www.materialadvantage.org">www.materialadvantage.org</a>)</td>
<td>$30.00</td>
</tr>
<tr>
<td>SCTE – Society of Cartridge and Tool Engineers</td>
<td>$117.00</td>
</tr>
<tr>
<td>Chapter Sustaining Membership (Rates vary per chapter. Call 1.800.336.5152 ext. 5651 for rate)</td>
<td>$________.00</td>
</tr>
</tbody>
</table>

A full-time, post-secondary student interested in receiving member benefits and supporting ACerS, AIST, ASM and TMS.

### Additional Affiliate Membership Options (check those you want to join):

<table>
<thead>
<tr>
<th>Option</th>
<th>Annual Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTS – Heat Treating Society (<a href="http://www.asminternational.org/hts">www.asminternational.org/hts</a>)</td>
<td>$25.00</td>
</tr>
<tr>
<td>IMS – International Metallographic Society (<a href="http://www.metallography.net">www.metallography.net</a>)</td>
<td>$25.00</td>
</tr>
<tr>
<td>TSS – Thermal Spray Society (<a href="http://www.asminternational.org/tss">www.asminternational.org/tss</a>)</td>
<td>$30.00</td>
</tr>
<tr>
<td>SMST – International Organization on Shape Memory and Superalastic Technologies (<a href="http://www.smst.org">www.smst.org</a>)</td>
<td>$50.00</td>
</tr>
<tr>
<td>EDFAS – Electronic Device Failure Analysis Society (<a href="http://www.edfas.org">www.edfas.org</a>)</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

Total: $_______.00

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### TOTAL PAYMENT (in U.S. Dollars)

- [ ] Check enclosed (Payable to ASM International) $__________
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Signature for Credit Card Authorization: __________________________ Date: ____________

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  - [ ] Residence  [ ] Business

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- Mr.
- Ms.
- Mrs.
- Dr.
- Prof.

---

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Position/Title:

Division/Subsidiary:

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Business Phone Number: ____________ Business Fax Number: ____________

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Mail or fax to 440.338.4634. Questions? Phone 800.336.5152, ext. 0.

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