Summary of the activities carried out by IIM Pune chapter

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Chapter report from April'2015 to March' 2016

c) National seminars

NIL

d) Memorial lectures.

The 10th Dr. Dara P. Antia Memorial Lecture on "An Obsession with Zr-Nb phase diagram" was delivered by Dr. Sreekumar Banerjee, Homi Bhabha Chair Professor, BARC, Mumbai on DATE-1/3/16. Nearly 150 delegates together from industry, academia and R&D organizations participated in this event. The technical content of the talk was well appreciated by all.

e) ASM-IIM lecture

1) **Half day Workshop on Challenges, Opportunities and Advances in Surface Engineering for Industrial Applications** was organized jointly by IIM Pune Chapter and ASM international Pune Chapter and Dept. of Metallurgy & M.S.College of Engineering Pune on July 27th, 2015. In this workshop panel discussion on Surface Engineering for Industrial Applications was arranged. panel member consists of Dr. Sanjay Arole (Volkswagen India Pune), Ms Priti (Tata Motors pune), Dr Basu (Sandvik Asia Pune) and Dr J. A. Sekhar (MHI Inc USA). Dr. Satyam Sahay coordinated the panel discussion. The Panel Discussion focussed on the various key points like scope of Surface Engineering, applications, cost. Also, on this occasion lecture on - **Applications of the Cascade e-Ion Atmospheric Stable Plasma was delivered by Dr J. A. Sekhar.** Founder of MHI Inc., Cincinati, USA and Emeritus Professor of Mechanical and Materials Engineering, University of Cincinnati, Cincinnati, OH, USA.

Total 155 delegates participated which includes students, faculty and industry professional from TRDDC, Thyssen Krupp, EATON, elringklinger, Bharart forge, Kalyani Carpenter Pune, & Jon Deere Pune.

Inauguration of workshop: (from left to right) Prof. N.B.Dhokey, Dr. S.Arole, Dr. J.A. Shekhar, Prof.S.T.Vagge, Prof. B.N. Chaudhari

2) IIM – ASM jointly organized half day workshop, on **i) Cold spray and ii) Titanium forming by Dr Antenello Astarita** on Tuesday, February 23, 2016.

f) Workshops

1) **A two days Workshop "Characterization and Surface Engineering"** April 9th and 10th 2015 Organized by MIT, Aurangabad & Indian Institute of Metals Pune Chapter at Maharashtra Institute of Technology, Beed bypass, Aurangabad 431010. Dr. T. S. Sudarshan, B. Tech. (Metallurgy) from IIT, Madras and M.S. and Ph.D. in Materials Engineering Science from Virginia Tech. University, USA apart from Other eminent speakers from VNIT, Nagapur and COEP. Dr. C. L. Gogte, MIT,Aurangabad (MS) was the CONVENER and Dr. P. M. Ambad and Dr. S. V. Lahane from same institute were the Co-Conveners for this programme.

2) **One day Workshop on "Recent Trends and Advances in Forging Industry"** Jointly Organized by Indian Institute of Metals (IIM) Pune Chapter & Department of Metallurgy and Materials Science, College of Engineering, Pune on September 12, 2015 in the mini Auditorium of COEP. The workshop

was comprised of seven guest lectures with a Panel discussion. It was organized at College of Engineering, Pune on **12th September 2015.** The workshop was comprised of seven guest lecturers with a panel discussion.

Delegates were welcomed Prof. S.T.Vagge, Chairman IIMPC, Prof. B.B.Ahuja, officiating Director of COEP addressed the audience. Prof.SVS Narayana, convener briefed about forging workshop. Dr.Raju Kadam,R&D Manager,KCTI Bharat Forge Ltd. proposed vote of thanks. Speakers include Prof.K.A.Padmanabhan, former Director of IIT Kanpur, Prof.Suhas Joshi, HoD of Mechanical Engineering,IIT Bombay , Mr.Srivatsa Kulkarni from Kalyani Carpenter , Mr.S.Khasnis from Bharat Forge Ltd, Mr. G.M.Verma from Central Foundry Forge Plant of BHEL, Mr.Neeraj Borwankar and Mr.Anil Kumar from L&T Special Steels, Mr.Aseet Pasricha, by AIFI.

Many delegates from different industries related to forging enrolled for the workshop. Over 118 registrations were reported for the workshop. From which, there were over 38 students from different educational institutes like College of Engineering,Pune, Annasaheb Dange College of Engineering,Raisoni College, Sinhagad College of Engineering etc. In total, 80 delegates from industries like Bharat Forge, KCIT, Trinity, BHEL , TRDCC etc. enrolled for the workshop.

Inauguration of workshop on “Recent trends and advances in Forging Industry” at College of Engineering, Pune on 12th September 2015

3) **One day workshop on "Advancements in Tribology"** was organized by Nashik satellite centre of IIM Pune chapter on **18th, December, 2015,** 9.30 am - 5.00 pm at Sandip Institute of Engineering and Management Seminar Hall, Sandip Foundation, Mahiravani, Trimbak, Nashik 422213. Prof. V.A. Kolhe, Head Mech Engg. Dept, Sandip Institute of Engineering and Management , Nashik and Mr. Mr. S.J Chede, Jt. Secretary, IIM Pune Chapter and faculty working in the same institute was the coordinator of the event. Dr. N.B. Dhokey, EC member IIM Pune chapter participated as organizing committee member and one of the speakers. Mr. Ajit Bhandekkar, Jt. Secy. IIM Pune chapter was the co-convener of the event.

g) Short term courses

Half day's Short Course on "**Corrosion – Fundamentals, Forms and Materials Selection" by Dr. Vilupanur A. Ravi, Professor and Chair, Department of Chemical and Materials Engineering, California State Polytechnic University, Pomona, USA** at Department of Metallurgy and Materials Science, COEP was held on 6th October 2015. The topics covered in this workshop were: (1) Corrosion – An Interplay of Economics, History, Electrochemistry, Electronics, and Metallurgy/Materials, (2) Forms of Corrosion and (3) Materials Selection. It was attended by fifty (50) participants.

Prof. Vilupanur A. Ravi along with participants during half day workshop on corrosion at College of Engineering, Pune held on 6th October 2015 .

h)Plant visits

Nil

i) Technical quiz

Prof. Brahm Prakash Memorial Material-Quiz 2015

"**Brahma Prakash Memorial Materials Quiz**" Competition was held on 6 September 2015. There was a huge response for the competition this year from various junior colleges from Pune. Over 127 teams registered for the competition. The competition was divided in three rounds. After the Welcome ceremony, the first round was held which was a written quiz. Through which, top 30 were selected for the next round. The next round was a quiz where questions were displayed on slides and teams were told to solve. Then, top 6 teams were selected for the final round. Final round was a "Buzzer round" where some questions with visual reference were displayed. The teams were expected to answer the questions by pressing the buzzer. This round not only judged the knowledge of the students but also their alertness and

recollectability. The winner team was from Sir Parashurambhau College (S.P.College) Pune. This year's BPMMQuiz competition was a great experience for students indeed. The buzzer circuits was a truly new idea which were constructed and tested by the students studying in Second Year Metallurgical Engineering. All the teams enjoyed the competition and also learnt a lot of practically applicable facts and concepts of material sciences.

j) Technical lectures

SNo	Title of the Lecture	Date	Speaker and affiliations
1	"Technological Challenges to Aluminum Scrap Recycling "	Tuesday, September 1st, 2015, Venue COEP	by Professor T.R. Ramachandran Formerly with IIT Kanpur (1961-88) and the Founder Director (1989-99), Jawaharlal Nehru Aluminum Research Development and Design Centre (JNARDDC), Hyderabad; currently Guest Professor at IIT Gandhinangar and the Visiting Professor at the Non-ferrous Materials Technology Development Centre (NFTDC), Hyderabad
2	ASM-IIM Lecture on	October 5, 2015, Venue COEP	Professor Vilupanur A. Ravi

	“Corrosion Behavior of Titanium Boron Alloys”		California State Polytechnic University, Pomona, CA 91768
3	IIM Foundation Day Lecture on Recent Advances in Piezoelectric Materials	24/2/16.	Dr. B. Praveen Kumar Scientist-'E', Armament Research & Development Establishment (DRDO)Pune-411021
4	Advances in Surface Engineering and Nanotechnology (jointly with ASM International)	25/08/15	Dr. T.S. Sudarshan, President and CEO of Materials Modification, Inc., Fairfax, Va.

Professor T.R. Ramachandran with IIM Pune chapter office bearers at College of Engineering, Pune on 1st September 2015.

k) Technical debates

NIL

l) Technical essay competition

NIL

m) Elocution competition

NIL

n) Students events

The chapter level NMD celebration event **"Meta Vista 2016- National Metallurgists Day Celebration"** was held on 2/4/16. It is covered in this year's annual report although it was held in April'16. Otherwise in next year's report this event will appear twice. The event was held on 02nd April 2016. The events held during the event were- 1.Metallography, 2.Materials Quiz, 3.Poster Presentation. Convener was Prof. V.S.Galphade and Co-Convener was Dr. Raju Kadam. Prof.G. K. Ogale Memorial Lecture on **"Innovation"** was delivered by Dr R K P Singh is Senior Director, Kalyani Centre of Technology & Innovation (KCTI) -Bharat forge Ltd, PUNE. More than 200 students participated in this event.

3. The following new IIM life members got added this year through the efforts of Chairman, Dr. S.T. Vagge and other EC members of IIM Pune chapter.

Sr. No.	Name	Year 2015-16
1	Ms. Madhuri Chandrashekhar Deshpande	Life member
2	Mr. Sunil Prabhakar Divekar	Life member
3	Mr. Sandip Tukaram Temkar	Life member
4	Mr. Kaustubh Ramesh Kambale	Life member
5	Ms. Pritee Manoj Purohit	Life member
6	Mr. Sunil Shriram Deshpande	Life member
7	Mr. Gautam Jalba Narwade	Life member
8	Mr. Aniket Bhanudas Kolekar	Life member
9	Dr Raju Chintaman Kadam	Life member
10	Amit Suresh Powar	Life member
11	Divij Palashkumar Vaishnav	Life member

12	Suraj Prakash Toppo	Life member
13	Ms Madhuri Mohan Thombare	Life member
14	Mehanathan Radhkrishnan	Life member
15	Manoj Jejurkar	Life member

4. Two candidates completed their AMIIM viva voce from IIMPC since April 2015 to 31 March 2016.