

THE INDIAN INSTITUTE OF METALS

NMD ATM 2014

**Redefining the Horizons of Metallurgy/Materials
Focus on Automotive, Aerospace, Defense and Energy**

Brief Report

52nd National Metallurgists' Day
(Under the aegis of Ministry of Steel, Government of India)
and
**68th Annual Technical Meeting of
The Indian Institute of Metals**

12-15 November, 2014
College of Engineering, Pune



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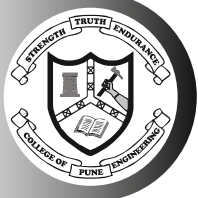
SIMA
Sponge Iron Manufacturers
Association



SHEET METAL FORMING
RESEARCH ASSOCIATION

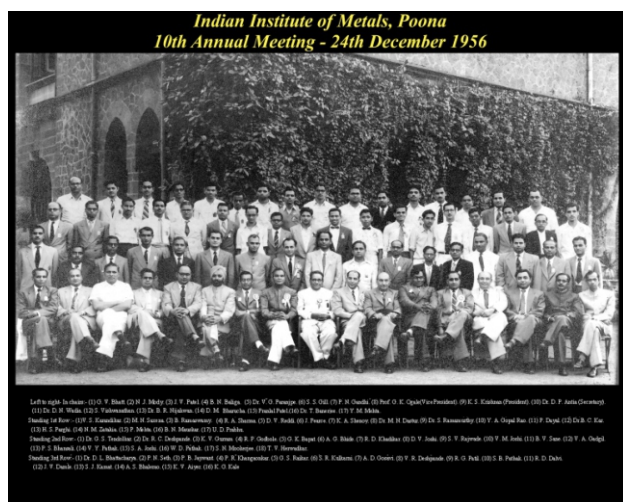


TMS



1. Introduction

College of Engineering Pune in collaboration with Indian Institute of Metals, Pune, Mumbai, Baroda and Nagpur Chapters hosted the **52nd National Metallurgist' Day** and 68th Annual Technical Meeting at College of Engineering, Pune from November 12-15, 2014. The theme for NMD-ATM 2014 was '**Redefining the Horizons of Metallurgy/Materials: Focus on Automotive, Aerospace, Defence and Energy**'. This event was being organized in Pune after a gap of nearly four decades and it was a special occasion for College of Engineering Pune (CoEP) and for the entire metallurgical fraternity to host the same in Pune. Earlier, this event was organized at CoEP in the year 1976.



10th Annual Technical Meeting, 24th December, 1956

2. Inauguration

On the inauguration day, i.e. 12th November, 2014, the honourable guests were Dr. F. C. Kohli, Chairman, Board of Governor, CoEP (Chief Guest) and Mr. Pratap Pawar, Chairman, Sakal Group (Guest of Honour). The inaugural function started with the Indian culture of Saraswati Pooja by invocation and lighting of lamp. Dr. S. Biswajit Basu, Vice President, IIM,

welcomed the dignitaries. Prof A. D. Sahasrabudhe, Director CoEP gave welcome address. Presidential address was given by Dr. R. N. Patra, President, IIM. Dr. S. T. Vagge, Co – Convener, introduced the chief guest Dr. F. C. Kohli. The conference was inaugurated by the auspicious hands of Dr. F. C. Kohli. Dr. A. K. Singh, Convener, NMD ATM, gave an outline of the ATM structure. Dr. N. B. Dhokey, Co – Convener, proposed vote of thanks.



Dr. F. C. Kohli, Chief Guest delivering inaugural address



Dignitaries engrossed at the inaugural function

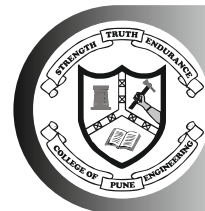
3. Technical Exhibition Inauguration

Pratap Pawar, Chairman, Sakal Group inaugurated the Technical Exhibition. It was comprised of the 39 stalls of sponsors, co-sponsors and exhibitors. The guests visited each stall and interacted with the exhibitors and



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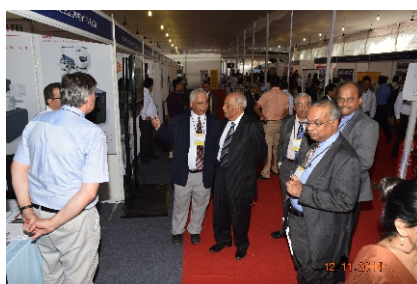


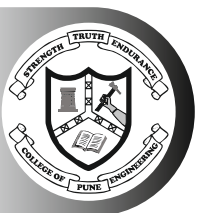
sponsors. Their belief and the efforts of organizing team added together towards the success of the technical exhibition. The industry participation to this level shows us the urge of industry to move along with academia towards survival in this technologically competitive environment.



Technical Exhibition Inauguration by Chief Guest
Dr. F. C. Kohli and Guest of Honour Mr. Pratap Pawar

Glimpses of Technical Exhibition





4. Salient features of the program

The conference was attended by 1442 delegates which includes 25 foreign delegates, 110 invited speakers who explained the various technical concepts focusing on automotive, aerospace, defense and energy. Total 30 technical theme symposia were organized on several topics of interest namely, Integrated Computational Materials Engineering, Additive Manufacturing (also known as 3D printing), Materials for the Automotive Industry, Joining Technology, IT enabled Manufacturing, Materials for Energy Sectors, Corrosion and protection, Powder Metallurgy, Steelmaking, Heat treatments and Surface Engineering, Nano materials, Defence Materials, Space Materials, Non-destructive Testing, Fuel Cells and Batteries, Nuclear Materials, Predictive Data Analytics for Manufacturing, Advanced Materials Characterization, Sponge Iron, Metal Forming. Out of 850 abstracts, nearly 247 short presentation followed by posters was the special feature of the conference in addition to 503 oral presentations. The metallography presentation was marked by XYZ delegates covering metallography pertaining to optical, scanning and transmission microscopy. There were five plenary lectures were presented by the eminent speakers, the details of which are listed below.

12th November, 2014: [11:30 - 12:30]

- **Titanium: Science, Technology and Application**
Dipankar Banerjee,
Indian Institute of Science, Bangalore
- **Materials challenges for the Indian Atomic Energy programme**
S. Banerjee,
Bhabha Atomic Research Centre, Mumbai

13th November, 2014: [11:30 - 12:30]

- **The Digital Era: Driving Transformations in Minerals, Metals, Materials, and Manufacturing**
K Ananth Krishnan,
Tata Consultancy Services, Chennai
- **Industrial Realization of ICME: Status and Opportunities**
Richard LeSar,
Department of Materials Science and Engineering, Iowa State University,
Ames, IA 50011 USA

15th November, 2014: [10:30 - 11:00]

- **New Steels Development - A Changing Game**
Debashish Bhattacharjee,
Tata Steel Limited, Europe



Four Panel Discussions were held during IIM NMD ATM 2014, details as listed below.

12th November, 2014

Future of Manufacturing – IT / Manufacturing

Chair: Mr. Jack Maclachlan (Global Head, Metal Solutions, CS, UK)

Panelists:

Mr. Colin Mitchell (Head Mining Solutions, TCS, Australia)

Mr. Sudhakar Potukuchi (Vice President (Technology) and Head, Eaton Engineering Centre, Pune)

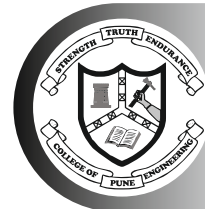
Mr. Ajay Purohit (Technical Chief, Additive Manufacturing, Tata Motors/Tata Technologies, Pune)

Mr. Srikant Srinivasan (Director, Manufacturing, GE Global Growth and Operations, Pune)



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13th November, 2014

Human Resource Challenges for the Minerals Metals and Materials Processing Industries

Panelists:

Dr. Biswajit Basu, (Aditya Birla Group)
Mr. A C R Das, (Consulting Adviser, Ministry of Steel, New Delhi)
Professor Indranil Manna, (Director, IIT Kanpur)
Dr. K Baba Pai, (Director, Institute of Technology and Management, Vadodara)
Professor Anil D Sahasrabudhe, (Director, College of Engineering, Pune)
Dr. S. Srikanth, (Director, National Metallurgical Laboratory, Jamshedpur)
Mr. Ranjan Srivastav, (Vice President (HR), John Deere, Pune)
Dr. T. Venugopalan, (CTO, Tata Steel)

14th November, 2014

Entrepreneurship Opportunities in Materials & Manufacturing Industry

Panelists:

Mr. Pramod Chaudhari Chairman, Praj Group
Dr. Avinash Kulkarni Chairman & Managing Director, Litex Electricals Pvt. Ltd.
Dr. Milind Acharya Executive Director, Milman Thin Film Systems Pvt. Ltd.
Mr. Vikram Salunkhe Managing Director, Accurate Gauging & Instruments Pvt Ltd.

15th November, 2014

Dominant Role of Materials in Renewable Energy Technologies: Solar, Bio, Wind and other Renewable technologies riding on the wave of new generation nano-bio materials and super alloys with advanced processing systems.

Chair: R. R. Sonde, Thermax Ltd.

Panelists:

D. Amalnerkar CMET, Pune
S. Roy Choudhury NMRL
R. N. Das BHEL, Bangalore
Kiran Deshpande Thermax Ltd.
Seetharama C. Deevi Richmond, USA
Sarang Ingole IIT Kanpur
Sangeeta Kale DIAT, Pune
R. R. Sonde Thermax Ltd.
Himanshu J. Thaker Prakash Steelage Ltd.

5. Alumni Meet:

To encourage participation of alumni, special slot was dedicated to Alumni function. During this event, on the first day, i.e. 12 November 2014, an alumni function was also organized. This was the occasion when the CoEP alumni enjoyed the get together with their colleagues. Also eminent alumni from CoEP were also felicitated on this occasion, viz.

Dr.P.R.Khangaonkar, Dr.K.Satyanaryan, Sanjeev Tambolkar and Prakash Dhoka.



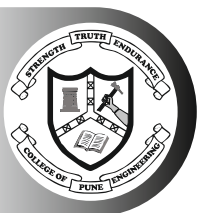
Felicitating of Dr. P. R. Khangaonkar by Shripad Mirasi, President, COEP Alumni Association



Felicitating of Dr. K. Satyanarayan by A D Sahasrabudhe, Director, COEP



Felicitating of Sanjeev Tambolkar by Shripad Mirasi, President, COEP Alumni Association



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6. IIM Awards Functions:

During this mega event, 44 IIM awards were given to recognize professionals who have made distinguished services to Metallurgy and Materials Science. It was an occasion to honor the distinguished personalities who actively connected with the metallurgical industries or had helped substantially to advance the arts and science relating to the metallurgical industries or metallurgical science.



Welcome address during IIM award ceremony by
Dr. R. N. Patra, President, IIM



Felicitations of Professor K. S. Chattopadhyay

THE INDIAN INSTITUTE OF METALS IIM Honours & Awards 2014

Sl No	Honours / Awards	AWARDEES	Affiliation
A	IIM HONOURS:		
1	Honorary Membership	1. Prof. K. Chattopadhyay	Immediate Past President & Professor, Dept. of Materials Engineering, Indian Institute of Science, Bangalore
		2. Prof. Ranjit Kumar Ray	Former Professor, IIT Kanpur & Visiting Scientist, R&D Tata Steel
		3. Prof. Shrikant Lele	Distinguished Professor, IIT Varanasi, BHU
		4. Prof. Vinayak P. David	NU President Abraham Harris Chaired Professor, Department of Materials Science & Engineering, Director, NUANCE Center Director, Global McCormick Initiative (GMI) Northwestern University, Evanston, USA
B	IIM AWARDS:		
2	IIM PLATINUM MEDAL	Mr. L. Pugazhenthy	Executive Director (ILZDA) and IIM Past President
3	IIM TATA GOLD MEDAL	Mr. S K Roy	Former Advisor, MD's Office, Tata Steel, Jamshedpur
4	IIM G D BIRLA GOLD MEDAL	Dr. U Kamachi Mudali	Outstanding Scientist & Associate Director, Corrosion Sc. & Tech. IGCAR, Kalpakam
5	IIM -TSL NEW MILLENNIUM AWARD	Mr. Uttam Singh	Chief of Blast Furnaces, Tata Steel, Jamshedpur
6	IIM HINDUSTAN ZINC GOLD MEDAL	No Award	
7	IIM SAIL GOLD MEDAL	Principal Author: Mr. Vinay Jain Co-authors : Dr. Beena Rai, Mr V Tammishetti, Dr. Pradip and Prof U V Waghmare,	Tata Research Development & Design Centre,Pune Tata Research Development & Design Centre,Pune Jawaharal Nehru Centre for Advanced Scientific Research, Bangalore
8	IIM O P JINDAL GOLD MEDAL	Mr. Bimal Kumar Jha	Executive Director Incharge, RDCIS, SAIL, Ranchi
9	IIM ESSAR GOLD MEDAL	Award in odd years.	
10	IIM SMS DEMAG EXCELLENCE AWARD	Mr. Anutosh Maitra	CEO, SAIL, Bokaro Steel Plant
11	IIM NALCO GOLD MEDAL	Mr. Sanjib Kumar Roy	Executive Director (Smelter & Power Complex), NALCO, Angul
12	IIM BINANI GOLD MEDAL	No Award	
13	IIM MECO AWARD	Award in odd years.	
14	IIM DISTINGUISHED EDUCATOR AWARD	Prof. Dipak Mazumdar	Professor, Department of Materials & Metallurgical Engineering, IIT Kanpur
15	IIM DR A K BOSE GOLD MEDAL	Mr. Amitava Banerjee	Dept of Materials Science and Engineering, IIT Kanpur
16	IIM SIR PADAMJI GINWALA GOLD MEDAL	No award	
17	IIM N B SEN MEDAL & PRIZE	Mr. Shrikant Sukhdeo Katekar	IIM Raigarh Chapter
18	IIM VIDYA BHARATHI PRIZE	Mr. Kunwar Akash Singh	Dept. of Metallurgical & Materials Engineering, Indian Institute of Technology Kharagpur.

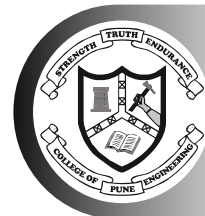
THE INDIAN INSTITUTE OF METALS IIM Honours & Awards 2014

Sl No	Honours / Awards	AWARDEES	Affiliation
B	IIM AWARDS Contd.		
19	IIM STUDENTS AWARD	1. Mr. Keshav Agarwal 2. Mr. Abhishek Bhansali 3. Mr. M.L.Lakshman Kumar Bommanna	Capt. of Metallurgical & Material Engineering Maurya National Institute of Technology, Jaipur Dept. of Metallurgical & Materials Engineering Vignansaraya National Institute of Technology Nagpur Dept. of Metallurgical Engineering, PSC College of Technology, Coimbatore
20	IIM EEST CHAPTER AWARD	Large Chapter : Jamshedpur Medium Chapter : Trivandrum Small Chapter : Coimbatore	
21	PROF. BRAHM PRAKASH MEYORAL QUIZ AWARD	Winners : Master K Gobul Mulhailah & Master P. Memo Prakesh Sri Jayendra Srinivasan Vairu HS School, Tirunelveli (Nominated by : IIM Trichy Chapter)	Runners up : Master Shourmup Mukhopadhyay & Nasar Soumyadeva Das Don Bosco School, Uluah (Nominated by : IIM Kolkata Chapter)
22	FELLOWS	1. Dr. S K Datta 2. Dr. V S Raja 3. Mr. Anil Gupta 4. Dr. Arvind Bharti 5. Dr. Rajendra Nath Bani 6. Dr. Avinash Kumar Srivastava 7. Mr. Himanshu Jayant Thakur 8. Dr. Satya Prakash Mohapatra 9. Mr. Ajay W. Dasgupta 10. Mr. Isda Bhuvan Mishra	Professor & Head, Metallurgical & Materials Engg. Dept., Faculty of Science & Engg., MS University of Baroda, Vadodra Institute Chair Professor, Department of Metallurgical Engg. & Materials Sc., IIT, Bombay Former Chairman, IIM Delhi Chapter Scientist GS & Corporate Director, Department of Defence Research & Development, Govt. Of India Scientist G, CCRIL, Kolkata Principal Science Officer, National Physical Laboratory, New Delhi Director / CEO, M/S Prakash Steel Age Ltd., Vadodra Assistant General Manager (Research & Development), Steel Plant, NALCO, Odisha Consulting Engg (Steel & Ref) & Visiting Faculty Engg. Ceramics, Calcutta University Senior Principal Scientist, SSF-VML, Jamshedpur
23	IIM Certificate of Honour	Dr. Sandip Bhattacharya	Chairman, IIM Jamshedpur Chapter
24	IIM NATIONAL SUSTAINABILITY AWARDS - IRON & STEEL	(a) Integrated Steel Plants : 1st Prize : Tata Steel Ltd., Jamshedpur 2nd Prize : Bhilai Steel Plant, SAIL, Bhilai (b) Secondary Steel / Alloy Steel Plants : 1st Prize : Jindal Stainless, Hisar 2nd Prize : JSW Steel Ltd., Salem (c) DRI Plants : 1st Prize : Tata Sponge Iron Ltd., Joda (d) Plants : Major Rolling Mills	
25	IIM NON-FERROUS BEST PERFORMANCE AWARD	(a) Large Integrated Manufacturing Plants : 1st Prize : Hindustan Zinc Ltd., Udaipur (b) Secondary Processing / Fabrication Plants : No Award (c) Casting & Forging Units : No Award	



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7. Book Release Function:

On the occasion of NMD ATM, two books were released viz.

- **A First Course in Iron And Steel Making** by Deepak Muzumdar
- **Principles of Metallurgical Thermodynamics** by S K Bose & S K Roy



Book Release:
A FIRST COURSE IN IRON AND STEELMAKING



Book Release:
PRINCIPLES OF METALLURGICAL THERMODYNAMICS

8. NMD Award Function:

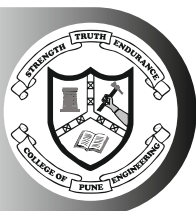
The National Metallurgists Day awards were instituted by the Ministry of Steel & Mines in 1962 and the Institute has been organizing the annual event ever since. On this auspicious occasion, the chief guest honorable Union Minister of Mines, Steel and Labour & Employment, Government of India, Shri Narendra Singh Tomar gave presidential address and felicitated distinguish metallurgist for their outstanding contribution in field of metallurgy and materials Engineering. Total thirteen NMD awards were given away to the professionals who have excelled in the field of Metallurgy and Materials Science.



Honorable Union Minister of Mines, Steel and Labour & Employment, Government of India,
Shri Narendra Singh Tomar
delivering presidential address



Dr.R.Krishnan receiving Life time achievement award



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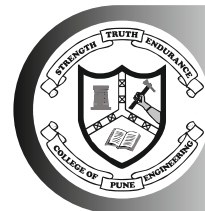
THE INDIAN INSTITUTE OF METALS NATIONAL METALLURGISTS' DAY AWARDS' 2014

Sl.	Title of the Award	Awardee(s)	Affiliation
A.	LIFETIME ACHIEVEMENT	Dr. R Krishnan	Former Director , Gas Turbine Research Establishment, Bangalore
B.	NATIONAL METALLURGIST (Industry)	Mr. Sajjan Jindal	Chairman & Managing Director, JSW Steel Ltd.
	NATIONAL METALLURGIST (Research & Academia)	Prof. Surya Pratap Mehrotra	Visiting Professor, Dept. of Materials Sc. & Engg., Indian Inst. of Tech. Gandhinagar , Ahmedabad
C.	METALLURGIST OF THE YEAR	Ferrous Group: 1 Dr Anjana Deva	Asst. General Manager, Application Engineering Centre, R & D Centre for Iron & Steel, SAIL, Ranchi
		Ferrous Group: 2.Dr. Amarendra Kumar Singh	Principal Scientist & Activity Lead, ICME Program, Process Engineering Innovation Lab., Tata Research Development & Design Centre, Tata Consultancy Services, Pune,
		Non - Ferrous Group: 3. Dr. T K Nandy	Scientist G, Head, Powder Metallurgy Division, Defence Metallurgical Research Lab., Hyderabad
		Metal Sciences Group: 4. Prof Rahul Mitra	Professor, Department of Metallurgical & Materials Engineering, Indian Institute of Technology Kharagpur
		Metal Sciences Group: 5. Prof. Alok Paul	Associate Professor, Department of Materials Engineering, Indian Institute of Science, Bangalore
		Environment, Energy Conservation & Waste Management Group: 6. Mr. Indra Nath Prasad Gupta	Dy. General Manager, Thermal Engineering Group, R & D Centre for Iron and Steel, SAIL, Ranchi
D	YOUNG METALLURGIST OF THE YEAR	Ferrous Group: 1Ms Diptimayee Samantaray	Scientific Officer E, Materials Technology Divn., Indira Gandhi Centre for Atomic Research, Kalpakkam
		Non - Ferrous Group: 2. Dr. Abhilash	Scientist, Recycling and Waste Utilisation Group, Metal Extraction and Forming Divn., CSIR National Metallurgical Lab., Jamshedpur
		Metal Sciences Group: 3. Mr. K V Mani Krishna	Scientific Officer -E, Bhabha Atomic Research Centre, Trombay, Mumbai
E	CERTIFICATE OF EXCELLENCE	Dr. Chandan Srivastava	Assistant Professor, Dept. of Materials Engineering, Indian Institute of Science, Bangalore



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9. IIM-JRD Tata Award Function:

IIM – JRD TATA awards were also given for Corporate Leadership to two eminent personalities from corporate sector viz. Dr. B. N. Kalyani, CMD Bharat Forge and Mr. C. S. Verma, Chairman SAIL. During this award ceremony, T.V.Narendran, MD, Tata Steel, spoke on this occasion and illustrated importance of IIM-JRD Tata award.



Dr. B. N. Kalyani, CMD Bharat Forge, receiving the IIM-JRD Tata corporate leadership award



C.S.Verma, Chairman, SAIL, receiving the IIM-JRD Tata corporate leadership award

10. Newspaper Articles:



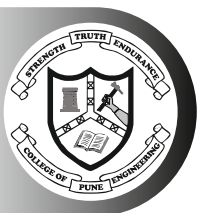
Times of India Newspaper Article.



Sakal Newspaper article

11. Souvenir Book Release:

On occasion of NMD event, a commemorative Souvenir was released at the auspicious hands of Shri. Narendra Singh Tomar, Minister of Steel and mines.



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NMD ATM 2014 Souvenir release

From Left: V K Thakral, Shri Singh Tomar Narendra,



Art work shown by CoEP students

12. Cultural Program:

In the evenings of NMD ATM 2014, three cultural programs were organized. These cultural programs relaxed and delighted the participants in audience with the medicine of art, music and dance. The cultural program was followed by dinner.

The first day evening was vibrating with the talented performers of COEP students. The cultural program consisted of dance performances and presentations by 'Advaik' band of COEP students.

On the second day (13th Nov), the internationally acclaimed Kathak dancers Prerana Deshpande and Ishwari Deshpande enthralled the audience with tradition and innovation in Indian classical Kathak dance. The Tarana in Raag Kalawati and Taal Ektal performed in a group performance was the epitome of the performance.



A performance by dancer Prerana Deshpande



Dance Performance by CoEP students on evening of 12th Nov 2014

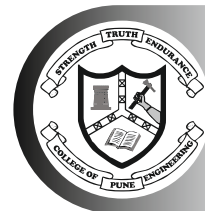


Charag-e-Gazal' concert night by Ustad Anwar Qureshi performed on evening of 14th Nov



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13. Spouse Program:

The conference committee also took care of the spouses who accompanied their better halves to do sightseeing. The spouse program included places ranging from historical monuments to religious temples, from natural caves to parks and gardens.

Historical Places visited:

Shaniwar Wada,
Lal Mahal,
Aga Khan Palace

Religious Temples visited:

Wagheshwar Temple,
Dagdusheth Temple,
Parvati Temple,
Mahalakshmi Temple
Chaturshringi Temple

14. Valedictory Function:

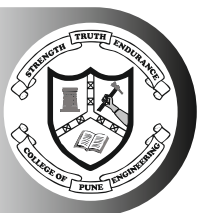
Valedictory function concluded IIM NMD ATM 2014. Dr S.S.Mohanty congratulated the organising committee for successfully organising such Mega Event. He also praised the idea of 50% registration fee waiver to students that increased the participation of the students. Also more than 100 students were benefited from free accommodation policy of the organising committee.

Awards to the authors of best papers and metallographs presented in oral, poster presentation and metallography respectively.

Sr. No.	Type of Presentation	Category	Prize	Author Name(s)
1	ORAL	FERROUS	FIRST (Tendulkar prize)	Vivek Gautam, et. al.
2			SECOND	Pramod Kumar Tripathy, et.al.
3		NON-FERROUS	FIRST	Vaisakhi Nandi, et. al.
4			SECOND	B. S. S. Daniel
5		METAL SCIENCE	FIRST	Suman Neogy, et. al.
6			SECOND	M. Jagannatham, et. al.
7	POSTER	FERROUS	FIRST	Swapan Kumar Garai, et. al.
8			SECOND	Shaktiveer Singh, et. al.
9		NON-FERROUS	FIRST	Srinivasan Nedunchezian, et. al.
10			SECOND	Suresh D. Meshram, et. al.
11		METAL SCIENCE	FIRST	S. S. Hosmani, Sufi Shaikh et. al.
12			SECOND	Padmapriya, et. al.
13		LM	FIRST	Suresh D. Meshram, et. al.
14			SECOND	Gourav Rao
15	METALLOGRAPHY	SEM	FIRST	R Veerababu
16			SECOND	G. M. Reddy
17		TEM	FIRST	Raghvendra Tewari
18			SECOND	Bimal Kumar Jha

Special awards were given by the Powder Metallurgy Association of India (PMAI) to the best papers in Oral and Poster presentations for the Powder Metallurgy session.

Sr. No.	Type of Presentation	Prize	Author Name(s)
1	PMAI (ORAL)	FIRST	Karthik Akkiraju, et. al.
2		SECOND	Vaishali Poddar, et. al.
3	PMAI (POSTER)	FIRST	Pankaj Kolhe, et. al.
4		FIRST	Shashanka R., et. al.



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15. Sub Committees:

Committee	Co-ordinator(s)
ATM	Dr. A.K.Singh, Dr.Satyam Sahay, Dr. S. Basu, Dr. S.K.Datta, Danish, Vinay Jain, Gerald
Resource Mobilization	Dr. N B Dhokey, Dr.C.L.Gogate,S.Lomte, AjitBhandakkar,Sachin Chede, Dr.P.Sivaprasad, Dr.Venkat Runkana, Dr.G.K.Dey, Dr.Pradip, H.Thaker, Prof.V.S.Raja, Prof.S.U.Pathak
Print and Media	Dr. BeenaRai, Rishabh Shukla,
Souvenir	Dr.Venkat Runkana, Dr.P.P.Deshpande, Pankaj Kolhe
Hall Management	Dr. S. T. Vagge, Dr. G.Mohapatra, Umesh, Dr.J.Y.Kher, Dr. Choure
Registration	Dr. R. K. Goyal, Rakesh Gupta, Dhanashree Aole,
Hospitality	Dr.Sahab Prasad, Dr. N.B.Dhokey, S.Meshram, S.Dangrikar, Anirudh
Cultural and Recreational Committee	Sandip Deshmukh, Amol
Accommodation And Transportation	Dr.S P Butee, V. T.Thavale, Pramod, Dr Capt Ranjekar, Digvijay U Ranaware, Rahul Mishra
Technical Exhibition	Dr.P. Siva Prasad, Dr.VenkatRunkana, Dr.M.J.Rathod, Dr.Rajiva Kadam,
Poster Exhibition	Dr.S.S. Hosmani, Dr.SatyaKuchibhatla
Spouse Program	Nazia Patel

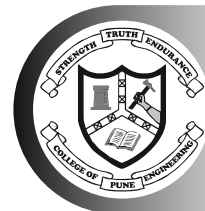
16. Volunteers:

Conference Secretariat
Rishabh Shukla
Vaishali Poddar
Pankaj Kolhe
Priyanka Lalde
Nileema Revade
Dnyaneshwar Mutkule
Ajinkya Darade

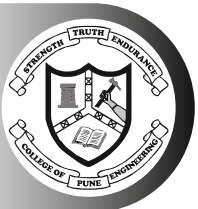


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Sr. no	NAME	Division
1	Ajinkya Darade	Co-ordinator
2	Dnyaneshwar Mutkule	Co-ordinator
3	Pankaj Kolhe	Co-ordinator
4	Digvijay Ranawre	Co-ordinator Accomodation and Transport
5	Shrestha Mishra	Co-ordinator Accomodation and Transport
6	Pawan Rochwani	Co-ordinator Cultural & Reception
7	Rajratan	Co-ordinator Cultural & Reception
8	Pawan Rochwani	Co-ordinator Cultural Team
9	Bhakti Deshpade	Co-ordinator Decoration
10	Naishalkumar Shah	Co-ordinator Hall Management
11	Saurabh Yeole	Co-ordinator Media
12	Nitin Meshram	Co-ordinator Metallography
13	Subodh Mulik	Co-ordinator Metallography
14	Akshay Mhaiske	Co-ordinator Purchase
15	Chirag Hajare	Co-ordinator Refreshment
16	Sagar Dhokale	Co-ordinator Refreshment
17	Animesh Bora	Co-ordinator Registration
18	Chetan Kale	Co-ordinator Registration
19	Chinamay Tadvalkar	Co-ordinator Registration
20	Hetal Parmar	Co-Ordinator Registration
21	Juhi Thanki	Co-Ordinator Registration
22	Sumitkumar Bind	Co-ordinator Registration
23	Rohan Parshewar	Co-ordinator Safety & Parking
24	Shailesh Sonawane	Co-ordinator Safety & Parking
25	Akash Patil	Co-ordinator Technical Exhibition
26	Narayan Shirolkar	Co-ordinator Technical Exhibition
27	Nileema Revade	Co-ordinator Technical Exhibition
27	Priyanka Lalge	Co-ordinator Technical Exhibition
28	Vishal Deshmukh	Co-ordinator Transport & Accommodation
29	Ashish Wakale	Co-ordinatorTransport & Accommodation
30	Nandish Soni	Co-ordinatorTransport & Accommodation
31	Abhishek Ghatge	Cultural Team
32	Ajinkya Hire	Cultural Team
33	Bilal Pirjade	Cultural Team
34	Chahat Saiwal	Cultural Team
35	Deepali Rodge	Cultural Team
36	Dhairyasheel Patil	Cultural Team
37	Gagandeep Kalshi	Cultural Team
38	Gangadhar Battalwad	Cultural Team
39	Himanshu Sankhe	Cultural Team
40	Indrayani Kadu	Cultural Team



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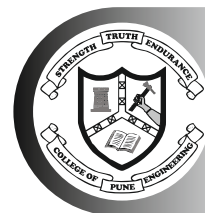


41	Kapil Arora	Cultural Team
42	Nikita Patil	Cultural Team
43	Nisha Raut	Cultural Team
44	Pankaj Rajpal	Cultural Team
45	Rajrattan Nandeshwar	Cultural Team
46	Rohit Garbade	Cultural Team
47	Samruddhi Ganar	Cultural Team
48	Shreyas Joglekar	Cultural Team
49	Shubhankar Padwal	Cultural Team
50	Suhas Dhanorkar	Cultural Team
51	Sujit Desai	Cultural Team
52	Vinod Jadhav	Cultural Team
53	Vivek Sarote	Cultural Team
54	Yogesh Chate	Cultural Team
55	Ayush Suhane	Volunteer Accommodation and Transportation
56	Mangal Saurabh	Volunteer Accommodation and Transportation
57	Rahul Mishra	Volunteer Accommodation and Transportation
58	Savya Sachi	Volunteer Accommodation and Transportation
59	Aayushi Kale	Volunteer Accommodation and Transport
60	Abhij Deshpande	Volunteer Accommodation and Transport
61	Abhishek Deshmukh	Volunteer Accommodation and Transport
62	Ajay Bhalerao	Volunteer Accommodation and Transport
63	Akash Gaikwad	Volunteer Accommodation and Transport
64	Amit Lengre	Volunteer Accommodation and Transport
65	Balasaheb Gaikwad	Volunteer Accommodation and Transport
66	Batra Simranjit	Volunteer Accommodation and Transport
67	Bhupad Rathi	Volunteer Accommodation and Transport
68	Chinmay Dahale	Volunteer Accommodation and Transport
69	Dattatray Dange	Volunteer Accommodation and Transport
70	Dinkar Patil	Volunteer Accommodation and Transport
71	Divy Poddar	Volunteer Accommodation and Transport
72	Harshad Nadarge	Volunteer Accommodation and Transport
73	Harshal Nerpagar	Volunteer Accommodation and Transport
74	Hemant Somani	Volunteer Accommodation and Transport
75	Mohammed Faizan	Volunteer Accommodation and Transport
77	Nachiket Korde	Volunteer Accommodation and Transport
78	Nikhil Abhyankar	Volunteer Accommodation and Transport
79	Nikhil Mandawade	Volunteer Accommodation and Transport
80	Niklaish Rathod	Volunteer Accommodation and Transport

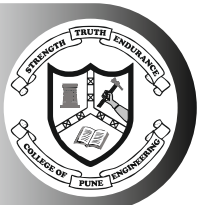


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81	P GHOSH	Volunteer Accomodation and Transport
82	Pahade Sahil	Volunteer Accomodation and Transport
83	Parag Jogdand	Volunteer Accomodation and Transport
84	Payal Rokade	Volunteer Accomodation and Transport
85	Prafulla Khose	Volunteer Accomodation and Transport
86	Prajapati	Volunteer Accomodation and Transport
87	Pranit Shukla	Volunteer Accomodation and Transport
88	Rajat Khairkar	Volunteer Accomodation and Transport
89	Ravindra Chougule	Volunteer Accomodation and Transport
90	Ravindra Malunje	Volunteer Accomodation and Transport
91	Reshma Patale	Volunteer Accomodation and Transport
92	Rohit Shingade	Volunteer Accomodation and Transport
93	Ruturaj Kamble	Volunteer Accomodation and Transport
94	Sahil Pahade	Volunteer Accomodation and Transport
95	Shreyas Khot	Volunteer Accomodation and Transport
96	Shubham Khandare	Volunteer Accomodation and Transport
97	Sumitkumar Bind	Volunteer Accomodation and Transport
98	Sunny Gugale	Volunteer Accomodation and Transport
99	Surbhi Jogdand	Volunteer Accomodation and Transport
100	Swapnil Donge	Volunteer Accomodation and Transport
101	Taha Al Saleem	Volunteer Accomodation and Transport
102	Tejashree Alkute	Volunteer Accomodation and Transport
103	Vidya kanade	Volunteer Accomodation and Transport
104	Vinod Jadhav	Volunteer Accomodation and Transport
105	Vishnu Vakhare	Volunteer Accomodation and Transport
106	Amol Joshi	Volunteer Cultural
107	Anirudh Deodhar	Volunteer Food
108	Abishek Lohgaonkar	Volunteer Hall Management
109	Aditya Puranik	Volunteer Hall Management
110	Akshaya Rokade	Volunteer Hall Management
111	Amit Jadhav	Volunteer Hall Management
112	Amit Londhe	Volunteer Hall Management
113	Apurv Joshi	Volunteer Hall Management
114	Aseem Khattri	Volunteer Hall Management
115	Azeez Saikh	Volunteer Hall Management
116	Bhakti Gupte	Volunteer Hall Management
117	Bhavana Shrigadi	Volunteer Hall Management
118	Chetan Malhotra	Volunteer Hall Management
119	Dhananjay Shimpy	Volunteer Hall Management
120	Dilshad Ahmad	Volunteer Hall Management
121	Geetanjali	Volunteer Hall Management
122	Harishwar Kale	Volunteer Hall Management



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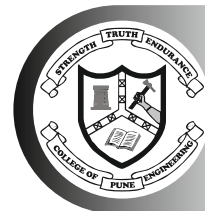


123	Ketan Mane	Volunteer Hall Management
124	Kiran	Volunteer Hall Management
125	Manoj Patil	Volunteer Hall Management
126	Nagaravi N	Volunteer Hall Management
127	Nagesh Kulkarni	Volunteer Hall Management
128	Nikita Mohite	Volunteer Hall Management
129	Pradnya Patole	Volunteer Hall Management
130	Pratik Rekhate	Volunteer Hall Management
131	Pratiksha	Volunteer Hall Management
132	Pravin Tarate	Volunteer Hall Management
133	Priyanka	Volunteer Hall Management
134	Rajan Kumar	Volunteer Hall Management
135	Sachin Biradar	Volunteer Hall Management
136	SANDHYA SESHAGIRI	Volunteer Hall Management
137	Satish Charjan	Volunteer Hall Management
138	Shabana	Volunteer Hall Management
139	Shubham Vatsa	Volunteer Hall Management
140	Shubham Wagh	Volunteer Hall Management
141	Srikant Panchal	Volunteer Hall Management
142	Srimannarayana Pusuluri	Volunteer Hall Management
143	Surbhi Jogdand	Volunteer Hall Management
144	Surya Ardham	Volunteer Hall Management
145	Suryanaman Chaube	Volunteer Hall Management
146	Suyog Gaikwad	Volunteer Hall Management
147	Umesh Singh	Volunteer Hall Management
148	Vaibhav Darekar	Volunteer Hall Management
149	Venkatamuralidhar K	Volunteer Hall Management
150	Vinay Jain	Volunteer Hall Management
151	Vinay Patel	Volunteer Hall Management
152	Aditya Deshpande	Volunteer Metallography and Poster Presentation
153	Baradapurkar Rohit	Volunteer Metallography and Poster Presentation
154	Bhagyashree Neharkar	Volunteer Metallography and Poster Presentation
155	Borawake Siddhant	Volunteer Metallography and Poster Presentation
156	Chandurkar Anand	Volunteer Metallography and Poster Presentation
157	Gaurav Kshirasagar	Volunteer Metallography and Poster Presentation
158	Jadhav Shubham	Volunteer Metallography and Poster Presentation

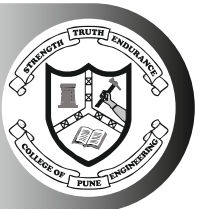


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159	Joshi Shreeraj	Volunteer Metallography and Poster Presentation
160	Mohod Shubham	Volunteer Metallography and Poster Presentation
161	Pallavi Shinde	Volunteer Metallography and Poster Presentation
162	Parjanya Krishna	Volunteer Metallography and Poster Presentation
163	Pranav Kulkarni	Volunteer Metallography and Poster Presentation
164	Prathamesh Lokhande	Volunteer Metallography and Poster Presentation
165	Rajlakshmi Deshmukh	Volunteer Metallography and Poster Presentation
166	Ranjit Mane	Volunteer Metallography and Poster Presentation
167	Rohit Wanjari	Volunteer Metallography and Poster Presentation
168	Rucha Patil	Volunteer Metallography and Poster Presentation
169	Saxena Divyansh	Volunteer Metallography and Poster Presentation
170	Shubham Dani	Volunteer Metallography and Poster Presentation
171	Shubham Shelke	Volunteer Metallography and Poster Presentation
172	Abhishek baikadi	Volunteer Printing and editing
173	Aniruddha Panda	Volunteer Printing and editing
174	Himanshu Nirgudkar	Volunteer Printing and editing
175	Sagar Salunke	Volunteer Printing and editing
176	Akash Gaikwad	Volunteer Refreshment
177	Akash Sheth	Volunteer Refreshment
178	Akhilesh Shrotre	Volunteer Refreshment
179	Amol Bhukkan	Volunteer Refreshment
180	Aniruddha Wagh	Volunteer Refreshment
181	Bhupad Rathi	Volunteer Refreshment
182	Chandrakant Bhilare	Volunteer Refreshment
183	Gajanan Bejgamwar	Volunteer Refreshment
184	Ganesh Wahurwagh	Volunteer Refreshment
185	Hanmant Gawade	Volunteer Refreshment
186	Kewal Ainapure	Volunteer Refreshment
187	Naimish Shah	Volunteer Refreshment
188	Nikhil Mandawade	Volunteer Refreshment



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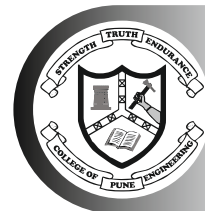


189	Ninad Parshtekar	Volunteer Refreshment
190	Omkar Chorge	Volunteer Refreshment
191	Pankaj Dhandar	Volunteer Refreshment
192	Pawan Lohakare	Volunteer Refreshment
193	Pranit Shukla	Volunteer Refreshment
194	Pratik Nigot	Volunteer Refreshment
195	Pratik Nimbalkar	Volunteer Refreshment
196	Rajat Machade	Volunteer Refreshment
197	Rajrattan Nandeshwar	Volunteer Refreshment
198	Ranjit Khedkar	Volunteer Refreshment
199	Rohit Dodake	Volunteer Refreshment
200	Rupesh Arora	Volunteer Refreshment
201	Sanjeev Patel	Volunteer Refreshment
202	Shashank Dhawale	Volunteer Refreshment
203	Siddhant Thorat	Volunteer Refreshment
204	Tanmay Patil	Volunteer Refreshment
205	Vishal Handal	Volunteer Refreshment
206	Vivek Shukla	Volunteer Refreshment
207	Vivekanand Gajare	Volunteer Refreshment
208	Abhay Gaikwad	Volunteer Registration
209	Abhijit Bhalerao	Volunteer Registration
210	Abhishek	Volunteer Registration
211	Aditya Jadhav	Volunteer Registration
212	Aishwarya Dhole	Volunteer Registration
213	Atul Nangare	Volunteer Registration
214	Bhavesh	Volunteer Registration
215	Gupta Rakesh	Volunteer Registration
216	Jay	Volunteer Registration
217	Naimish	Volunteer Registration
218	Ninad	Volunteer Registration
219	Pawan Lohakare	Volunteer Registration
220	Prafull Zende	Volunteer Registration
221	Prajakta Warade	Volunteer Registration
222	Pranav Desai	Volunteer Registration
223	Pratik Joshi	Volunteer Registration
224	Pratik Nimbalkar	Volunteer Registration
225	Rohit	Volunteer Registration
226	Roshan Gadwe	Volunteer Registration
227	Sayali Lande	Volunteer Registration
228	Shahnawaz Khan	Volunteer Registration
229	Shriyog	Volunteer Registration
230	Siddhant	Volunteer Registration

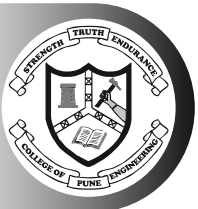


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231	Suraj	Volunteer Registration
232	Unmesh Vibhute	Volunteer Registration
233	Vaishnavi Patki	Volunteer Registration
234	Venugopal Tammishetti	Volunteer Registration
235	Amol Devgirkar	Volunteer Security Team
236	Aniket Patole	Volunteer Security Team
237	Ganesh Kotiye	Volunteer Security Team
238	Hanmant Gawade	Volunteer Security Team
239	Kathvate V.S.	Volunteer Security Team
240	Pankaj Dhandkar	Volunteer Security Team
241	Prashant Dixit	Volunteer Security Team
242	Raghvendra Daramwar	Volunteer Security Team
243	Rohan Parsewar (Head)	Volunteer Security Team
244	Shailesh Sonwane	Volunteer Security Team
245	Shrikant Mahajan	Volunteer Security Team
246	Vaibhav Awachat	Volunteer Security Team
247	Nilesh Bagal	Volunteers Registration
248	Rajiv Devmore	Volunteers Registration
249	Aakash Chavan	Volunteer Technical Exhibition
250	Aditya Puranik	Volunteer Technical Exhibition
251	Akshay Pujari	Volunteer Technical Exhibition
252	Amit Korde	Volunteer Technical Exhibition
253	Aniket Patole	Volunteer Technical Exhibition
254	Bhagyashri	Volunteer Technical Exhibition
255	Dhananjay Shimpi	Volunteer Technical Exhibition
256	Ganesh Hodshil	Volunteer Technical Exhibition
257	Janhavika Sonar	Volunteer Technical Exhibition
258	Jitendra Bankar	Volunteer Technical Exhibition
259	Ketan Mane	Volunteer Technical Exhibition
260	Ketan Pande	Volunteer Technical Exhibition
261	Mrudul Vehlal	Volunteer Technical Exhibition
262	Neelam Sagave	Volunteer Technical Exhibition
263	Omkar Karanjikar	Volunteer Technical Exhibition
264	Pooja Marakwar	Volunteer Technical Exhibition
265	Poonam Patil	Volunteer Technical Exhibition
266	Prajita Raje	Volunteer Technical Exhibition
267	Prashant Rajput	Volunteer Technical Exhibition
268	Rutuja Pande	Volunteer Technical Exhibition
269	Shraddha Kamdi	Volunteer Technical Exhibition
270	Sneha Malgave	Volunteer Technical Exhibition
271	Snehal Ladi	Volunteer Technical Exhibition
272	Vivek Kharade	Volunteer Technical Exhibition



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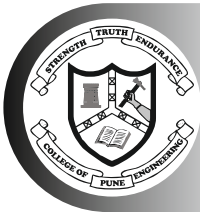


273	Yashwant rathod	Volunteer Technical Exhibition
274	Gerald tennyson	Volunteer Technical session and printing
275	Balaramasridhar Dwadasi	Volunteer Transportation
276	Dhanashree Aole	Volunteer Transportation
277	Dharmender	Volunteer Transportation
278	Pramod Zagade	Volunteer Transportation
279	Rohan Pandya	Volunteer Transportation
280	Santosh Daware	Volunteer Transportation
281	Aashay Shingre	Volunteers Accomodation and Transport



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Volunteers and Organising Committee Group Photo