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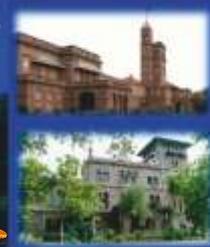
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Chairman, News Letter Committee

Louis F. Vaz

Chapter News Letter



EDITORIAL . . .



Sunil P. Divekar

Dear Fellow Readers,

Let me wish you all a Happy Diwali.

We had our AGM and Annual Day on the 7th September 2021. The Chief guest for the occasion was Dr Reji Mathai, Director, ARAI. The new Executive Committee was formed.

ASM International every year gives out many awards. To make one aware of these awards, Mr. Sesh Subramaniam, has tabulated these awards in different categories. If you fit into any of the categories, please apply. Mr. Subramaniam will guide you.

Dr. B. S. Murty delivered 1st Vishram Jamdar Memorial lecture in Nagpur on 14th October.

A lecture on "Non-Destructive – Effective Case Depth Measurement" was conducted by Mr. Sartak Sharma on 22nd June 2021.

A lecture on "Hydrogen Energy and PEM Fuel Cells: Exciting Opportunities in India" was given by Dr. Harshwardhan Pol on 29th July 2021.

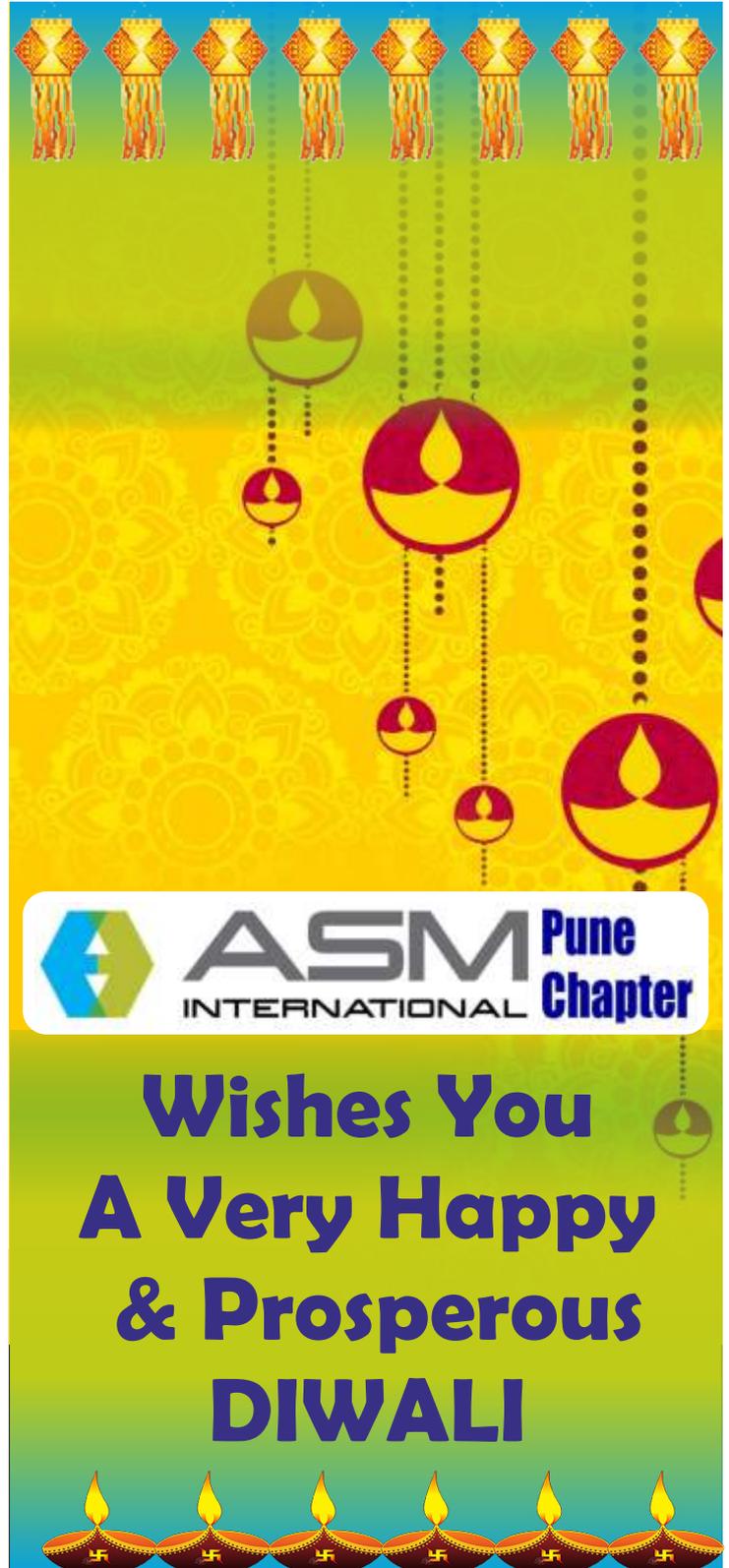
A lecture on Manufacturing and Characterization of Magnesia Carbon bricks for steel Ladle applications was given by Mr. Amit Charit on the 19th August 2021.

A five day Workshop for the second year Metallurgy students was held from 16th to 20th August 2021

Mr. Harshvardhan G. Patil is featured in our Know Our Member column.

Happy Reading

Louis Vaz



AGM AND ANNUAL DAY OF ASM PUNE CHAPTER

ASM Pune Chapter had its Annual General Body Meeting followed by the Annual Day of the Chapter on the 7th September 2021 at the Poona Club, Pune. This was the first physical meeting we had after a gap of one and a half year, because of the pandemic. All safety measures such as social distancing, wearing of face mask were strictly adhered.

The AGM was adjourned for 30 minutes for lack of quorum. Chairman, Mr. Udayan Pathak welcomed the members. Secretary, Louis Vaz, gave his report of the events of the preceding year. The statement of Accounts of the previous year was read by Hemant Zaveri and approved by the members present. The meeting was concluded by a vote of thanks by Rahul Gupta.



Office Bearers of the Pune Chapter 2021-2022

ASM Pune Chapter celebrated the winning of three awards it received from Headquarters.

Pune Chapter was the only chapter in the world to receive all three awards this year.

This was followed by Chapter Felicitations, Felicitations of World's First Women's only MA Section Office Bearer, the Unveiling of New Website of Chapter and the release of the Chapter Newsletter at the hands of the distinguished Chief Guest, Dr Reji Mathai, Director, ARAI.

Dr Reji Mathai delivered a technical talk on "Alternate Fuel – Global and Indian Horizon"



Dr Mathai delivering his presentation



Audience listening attentively

New Executive Committee 2021-2023

Chairman	Udayan Pathak FIE, FASM
Vice-Chairman	Rahul Gupta
Secretary	Louis F Vaz
Jt. Secretary	Ruta Barve
Treasurer	Hemant Zaveri
Executive Committee Members	Dr P G Renavikar FASM, Yogesh Dandekar, Yeshawant S Gowaikar, Jaswandi Gotmare, D G Chivate, Bhimsen Galgali
Co-opted E C Members	Nilesh Sakle, Sunil Divekar, Rajendra Patil, Nitin Datar, Dr Kruttika Apshankar-Kher, L D Deshpande, R T Kulkarni, Vineet Marathe, Dr Manoj Rathod, Praful Jamdar, P S Subramaniam, Anshuman Ganeriwala
Committee Chairs	
Membership Development	Nilesh Sakle
Long Range Planning Committee	Dr P G Renavikar
Technical Program	Ruta Barve
Training Program	Nilesh Sakle
News Letter	Dr Kruttika Apshankar Kher
Resource Mobilisation	Bhimsen Galgali
Webmaster	Anshuman Ganeriwala
Students Outreach	D G Chivate
Guardian Member (Students Outreach)	Praful Jamdar
Mentor Students Outreach	Principal Dr B P Joshi, Principal, CCOEW Nagpur

Dear distinguished ASM members

Season's Greetings!

I am pleased to attach the details of ASM International Awards for outstanding contributions in the field of Material science and Metallurgy

You are requested to go through the presentation to get to know the qualifying criteria, and cut off dates etc. Please get in touch with the awards committee for any clarification.

Your early response will be very much appreciated.

Best Regards
Sesh Subramaniam
Chairman -Awards committee
Ph: 98906 07304

ASM International Awards

P. Sesh Subramaniam,

Chairman, Awards Committee, ASM International Pune Chapter

B.Tech-IIT (M), Dip. Eng. Mgmt. (USA)

Director - JP Research India Pvt. Ltd.

Past Chairman, ASM International, Pune Chapter

Pune Chapter Awards Committee

Chairperson

P. Sesh Subramaniam



Past Chairman, ASM International Pune Chapter

Ph: 98906 07304. email: seshps@gmail.com

Members

Bhimsen R. Galgali



Immediate Past Chairman

Ph: 92256 31111
email: bhimsenrgalgali@gmail.com

Avinash Arankalle



Founder EC Member

Ph: 95455 01266
email: avinash.arankalle@gmail.com

Defacto Members

Chapter Chair, Vice Chair, Secretary and Joint Secretary

Vision

To nurture methodically a process of nominating Pune Chapter Members for various ASM Awards and Nominations.

To get at least one Award / Nomination every year for member nominated by chapter.

Introduction

ASM International offers various Awards for it's members.

Most relevant Awards for Pune Chapter Members includes -

- Fellow ASM (FASM)
- Distinguished Life Membership
- William Hunt Eisenman Award
- Allan Ray Putnam Service Award
- This presentation gives you details about **Criteria, Requirements** and Application **dead lines**
- Pune Chapter will be glad to **support / guide** you, for **application** and get you **recommendations**
- For more Awards & Details you may refer <https://www.asminternational.org/membership/awards/nominate>

The **ASM Pune** chapter welcomes proposal for nominations from all its qualified members for relevant awards

Please **send** your **nominations** to **Chairman Awards Committee** as per the qualifying criteria at least 4 months before the deadline for the respective award

Proper Documentation preparations may take about **one year** (as most of us do not keep detailed documents handy and organized)

New members can consider **4 – 10 years horizon** for these awards

Only **ACTIVE** Volunteers will be nominated by Pune Chapter

Most Recommended Awards

Award	Criteria	Deadline
Fellow ASM (FASM)	<ul style="list-style-type: none"> • Outstanding accomplishment in materials science or engineering • Broad & productive achievement in production, manufacturing, management, design, development, research or education • <u>FIVE</u> years current, continuous membership 	30 November (prior to year of presentation)



<p>Distinguished Life Membership</p>	<ul style="list-style-type: none"> • Normally for President or CEO of an organization • Devoted time to advancement of materials industries • Knowledge (education/experience) of the materials industries • Abilities (recognized by peers) in the materials industries • Award does not include posthumous selection/ <u><i>ASM Past Presidents are not eligible</i></u> 	<p>1 February (2 years prior to presentation)</p>
<p>William Hunt Eisenman Award</p>	<ul style="list-style-type: none"> • Achievements in industry in practical application of material science and engineering through production or engineering use • Five years current, continuous membership • Three statements from close associates 	<p>1 February (2 years prior to presentation)</p>
<p>Allan Ray Putnam Service Award</p>	<ul style="list-style-type: none"> • Member of ASM • Recognized for outstanding contributions at the chapter and/or society level • One award per year • Three statements from close associates 	<p>1 February (2 years prior to year of presentation)</p>

ASM International Other Awards

Award	Criteria	Deadline
<p>Edward DeMille Campbell Memorial Lectureship</p>	<ul style="list-style-type: none"> • Stature in field of materials science or engineering • Demonstrated lecturing ability • Membership not required 	<p>1 February (2 years prior to presentation)</p>
<p>ASM & TMS Distinguished Lecture in Materials & Society</p>	<ul style="list-style-type: none"> • Experience in national or industrial policy-making in materials science and engineering • Overview of technology and society which affects development in materials science and engineering. • Person associated with government, industry, research or education. 	<p>1 September (2 years prior to presentation)</p>



<p>Engineering Materials Achievement Award</p>	<ul style="list-style-type: none"> • Outstanding achievements in materials or materials systems in engineering structure or design and manufacture of product • Innovative • To production scale within past 10 years • Impact on entire industry, distinct gain to technology and society • Team effort • No previous widespread recognition 	<p>15 March (prior to year of presentation)</p>
<p>Gold Medal</p>	<ul style="list-style-type: none"> • Outstanding knowledge in materials science or engineering field • Versatility in application of science to the materials industry • Diagnosis & solution of diversified materials problems • Membership not required • Three statements from close associates 	<p>1 February (2 years prior to presentation)</p>
<p>Historical Landmarks</p>	<ul style="list-style-type: none"> • Sites and events must in some way be of significant historical importance in the field of materials science and engineering • Emphasis on technological development rather than on individuals • Recommend site/structure should be at least 50 years old 	<p>1 February (of year of presentation)</p>
<p>Honorary Membership</p>	<ul style="list-style-type: none"> • Distinguished service to the MSE profession, in areas of ASM strategic plan/initiatives, and progress to mankind • Only one award per year • ASM membership not mandatory • ASM Past Presidents and Past Trustees are not eligible for this award • Three statements from close associates 	<p>1 February (2 years prior to presentation)</p>
<p>Medal for the Advancement of Research</p>	<ul style="list-style-type: none"> • Executive officer responsible for corporate decisions on support of research or development. This excludes research executives or managers who are the recipients of such support. • ASM membership not mandatory • Award not limited to continental North America, nor is it limited by a previous award to the same company, as it is an award to an individual • Three statements from close associates • Award need not be presented each year 	<p>1 February (2 years prior to year of presentation)</p>



<p>Albert Sauveur Achievement Award</p>	<ul style="list-style-type: none"> • Pioneering materials science and engineering achievements • Stimulated organized work to advance materials science and engineering knowledge • Membership not required • Three statements from close associates 	<p>1 February (2 years prior to presentation)</p>
<p>Bradley Stoughton Award for Young Teachers</p>	<ul style="list-style-type: none"> • Teacher of materials science, materials engineering, design, and processing • Ability to impart knowledge and enthusiasm to students • Less than 35 years of age on 15 May of award year • Membership is required 	<p>1 March (prior to year of presentation)</p>
<p>Albert Easton White Distinguished Teacher Award</p>	<ul style="list-style-type: none"> • Unusually long (not less than 15 years) and devoted service in teaching materials science and engineering • Inspire and impart enthusiasm to students • Significant materials accomplishments • Five years current, continuous membership 	<p>1 February (2 years prior to presentation)</p>
<p>Silver Medal</p>	<ul style="list-style-type: none"> • Candidate in mid-career positions (typically 5 to 15 years of experience) and of the age of 40 years or younger • Recognizes leadership at an early stage for distinguished contributions in the field of materials science, engineering and the Society • Two years of current, continuous membership in ASM as an individual or as the voting representative of a Chapter sustaining membership at the time of nomination. • Individuals who have contributed to materials science solely through the management of research and development or through services to professional societies or the government, do not qualify for the Award. • Maximum of two Silver Medals may be given out for the first five years 	<p>1 February (of the year in which the award is to be given)</p>
<p>Bronze Medal</p>	<ul style="list-style-type: none"> • Two years of current, continuous membership • Candidate should have demonstrated outstanding technical contributions and volunteerism on a national level • Candidate shall be no more than 35 years of age on January 1 of the year in which the award is given • Recognizes ASM members who are in early-career positions typically 0-10 years 	<p>1 February (of the year in which the award is to be given)</p>
<p>J. Willard Gibbs Phase Equilibria Award</p>	<ul style="list-style-type: none"> • Achievements in advanced theory of phase equilibria • Promotes the applications of phase equilibria and phase diagram to materials science and engineering • ASM membership not required • No more than one award per year. • No candidate shall be selected for an award posthumously. 	<p>1 February (of the year in which the award is to be presented)</p>



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Dr. B. S. Murty delivered 1st Vishram Jamdar Memorial lecture.



Late Vishram Jamdar



Dr B S Murty

ASM International Pune Chapter & MKSS Cummins College of Engineering Nagpur jointly organised 1st Late Vishram Jamadar Memorial lecture, on 14th Oct at 6.30 pm. Institution of Engineers, Nagpur Local Centre, Dharampeth Education Society and Vijnyana Bharati, Vidarbha unit were Co-organisers of this memorial lecture. The memorial lecture was in hybrid mode i.e. online and in person at Institution of Engineers Hall, North Ambhari Road. Almost 30 persons joined the lecture physically and others joined online using link https://bit.ly/Vishramji_memory_lecture

Dr B S Murty, Director IIT Hyderabad and alumnus of VNIT Nagpur was the chief guest and he talked on the topic '**New Education Policy in the context of Higher Technical Education**'.



Dignitaries on the Dias



Dr B.S.Murthy giving his lecture remotely

Late Vishram Jamdar is first Generation entrepreneur from Nagpur who established Kinetic Gears and Heat Treat Well. He served as Chairman board of Governance of VNIT Nagpur for three terms. He was also on BoG of Govt Polytechnic Nagpur & President Dharampeth Education Society. He was closely associated with Laghu Udyog Bharati, Vijnyan Bharati, Vidarbha Unit. He succumbed to Covid-19 last year on 14th October. In his memory, the memorial lecture will be organised every year jointly by associations he was associated with.

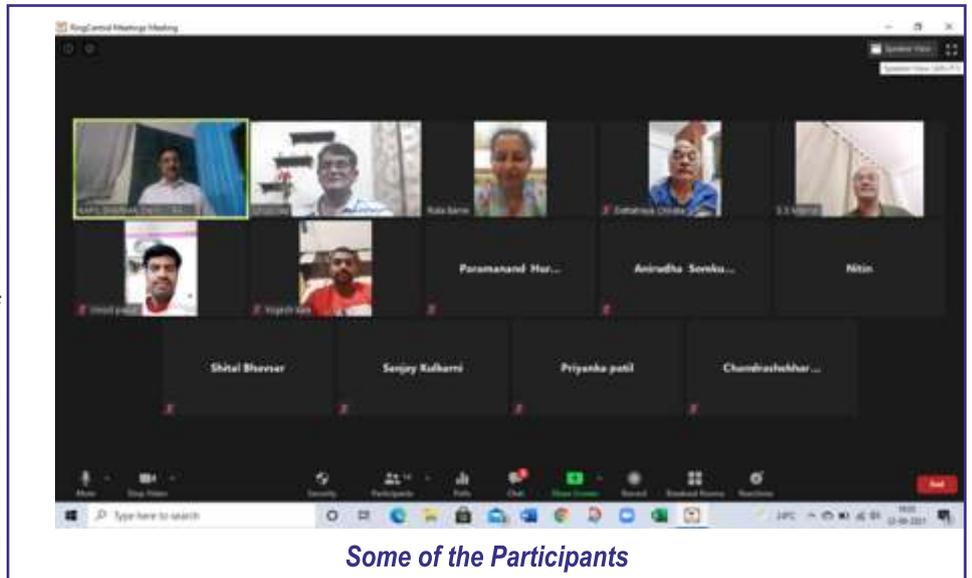
Udayan Pathak, Chairman, ASM International Pune Chapter, Dr. B P Joshi, Principal, MKSS, Cummins College of Engineering for Women, Shri Ratnakar Kekatpure, Secretary Dharampeth Education Society, Dr R L Shrivastava, Chairman, Nagpur Local Chapter, Institution of Engineers and Shri Ravleen Khurana of Vigyan Bharti were present and shared their experiences during the event.

Dr. Murthy emphasized on collaborative work in context of NEP and also focused on teaching learning in mother tongue and regional language in the future. He expressed about the vision of India as an educational hub in coming period.

Non Destructive – Effective Case Depth Measurement

A lecture on “Non-Destructive – Effective Case Depth Measurement” was conducted by Mr. Sartak Sharma on the ASM Pune Chapter, Ring Central portal on 22nd June 2021.

Mr. Sharma in his lecture explained that this was a non-destructive method of case depth measurement. The machine has a CHD Analyser and the case depth measurement is directly displayed on the screen. The instrument is designed to meet the requirement of heat-treatment control. It has a large capacity stand and is able to perform the test on large components. The carbide penetrator has a service life of 2500-3000 tests, depending on the type of material and the maximum load used.



Some of the Participants

18 persons attended this lecture.

Hydrogen Energy and PEM Fuel Cells: Exciting Opportunities in India

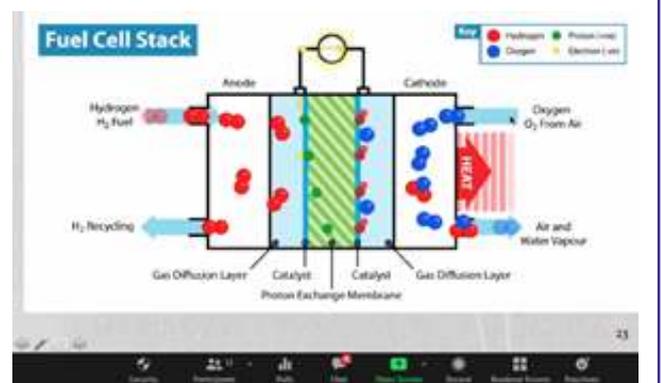
A lecture on “Hydrogen Energy and PEM Fuel Cells: Exciting Opportunities in India” was given by Dr. Harshwardhan Pol on the Ring Central platform of ASM Pune Chapter on 29th July 2021.

Dr. Pol first gave a brief outline of Hydrogen Energy and how it has developed from being a dangerous fuel to a tamed fuel. He went on to explain the quantity of electricity being produced by different means, such as hydro-power, diesel by generators, coal, wind atomic etc

He explained the specific energy of hydrogen and how it could be put to use.



Dr. Pol giving his lecture online



Fuel Cell Stack explained

He next explained the fuel cell and its different types. He also explained the successful development of fuel cells for automotive use in India.

Dr. Pol explained how these fuel cells could be put into use in India, like telephone towers, automotives etc.

The talk was very well received from the audience of twelve persons. It was a pity that many missed out on such a good and informative lecture.

Manufacturing and Characterization of Magnesia Carbon Bricks for Steel Ladle Applications

A lecture on Manufacturing and Characterization of Magnesia Carbon bricks for steel Ladle applications was given by Mr. Amit Charit on the 19th August 2021 on the Ring Central Platform of ASM Pune Chapter.

Amit first explained what is refractory material. For Steel industry, refractory products are designed based on the physical chemical and thermal requirements of respective stages of iron and steel making process. Magnesia carbon bricks is a basic refractory used in LD converters and steel ladles because of their high refractoriness, less wettability and good thermal shock resistance.

He went on to explain how these bricks are manufactured from the raw material and the quality checks that are maintained. The final products are tested for their capacity to withstand load at ambient as well as elevated temperatures

There were thirteen participants for this meet and they were all highly appreciative of the talk.



Amit giving his lecture

Students' Outreach

A five day Workshop for the second year Metallurgy students was held from 16th to 20th August 2021 on the Ring Central platform of ASM Pune Chapter.

The first lecture was hosted by Mr. Avinash Arankalle on 16th August and the topic was on EV Technology. The topic was a hot topic for the students and it was much appreciated.

Mr. Chivate, with whose initiative, this five day program was floated was the next speaker and the topic was Metal working and Rolling Processes – Basic. Mr. Chivate explained the various metal working processes with practical examples. His lecture was very well received by the students.

The afternoon lecture was on Forging Technology- Basic, by Dr. Vasant Khisty. Dr. Khisty with his vast knowledge of forging technology, kept the students spellbound with his lecture.

On the 17th morning we had a lecture on Mechanical Testing by Mr. Nilesh Sakle.

In the afternoon a session on NDT Basics was held by Mr. Uday Kale.

On the 18th morning Mr. Rahul Gupta gave his lecture on Casting Metallurgy. Rahul with his immense practical and theoretical knowledge of casting made the lecture very interesting for the students.

The afternoon lecture on Metallographic practices was given by Mr. Yeshwant Gowaikar.

Yeshwant with his vast collection of microstructures of different metals and alloys, could explain the different types of microstructures.

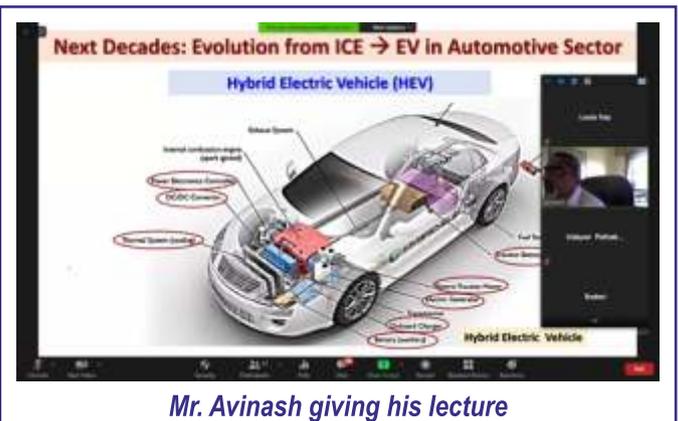
The 19th morning session was taken by Mr. Rajendra Patil and the topic was Heat-treatment and Instrumentation. Rajendra with his vast practical experience in heat-treatment and Instrumentation could explain to the students in very simple terms.

The afternoon session was on Corrosion Prevention by Dr. Shyama Ranade. Dr. Ranade explained to the students, what is Corrosion, how it is caused and how it can be prevented.

The 20th Morning session was taken by Mr. Priyanshu Bajaj and the topic was Additive Manufacturing. This session also generated keen interest in the students as it was a new topic.

The afternoon session was a Q&A session and it was conducted by our ASM Chairman, Mr. Udayan Pathak. There were a lot of questions by the students and they all had satisfied answers.

On an average there were 65 students for each session.



Mr. Avinash giving his lecture

Letter of Appreciation

Dear Sir/Madam,

I, on the behalf of Government Polytechnic Pune and Metallurgical Engineering Department, appreciate your sincere efforts for conducting the session/sessions of workshop which is the part of Industrial In-plant Training of students. The students were benefitted by knowledge and information given by you.

Expecting the similar co-operation in future.

Thanking you for your generous support and for being a part of Government Polytechnic Pune Training Program.

Happy Diwali.

Kindly convey this to Mr. Avinash Arankalle, Dr. Vasant Khisty, Mr. Nilesh Sakle, Mr. Uday Kale, Mr. Rahul Gupta, Mr. Yashwant Gowaikar, Mr. Rajendra Patil, Dr. Shamaya Ranade, Mr. Priyanshu Bajaj, Mr. Sudhir Kadadi, Mr. Udayan Pathak and all supporting team of ASM Pune Chapter.

Regards,

Mrs. N.S. Kadam,
H.O.D.,
Metallurgical Engg. Dept.,
Govt. Polytechnic Pune

KNOW OUR MEMBER



Mr. Harshvardhan G. Patil

Mr. Harshvardhan Patil is a Metallurgical Engineer. He has done his M.Tech in Process Metallurgy and B.Tech in Material Science & Metallurgy; both from College of Engineering, Pune. He has also completed his diploma in Metallurgy from Government Polytechnic, Kolhapur. He is ASNT Level II certified in UT, RT, MPI & LPT. He was also a part of Hybrid electric vehicle making team 'Team velociracers' for SAE Efficycle 2016. He was a 'Joint Secretary' of Indian Institute of Metals (COEP Chapter). He was research intern at 'Indian Institute of Science, Bangalore'.

He is now Deputy Director at 'Indrani Heat Treaters, Kolhapur'. The company founded by his father, Mr. Gurudatta Patil. 'Indrani Heat Treaters' has almost all of the Heat Treatment solutions under one roof and a very decent setup along with all testing facilities which has been approved by major MNCs. He also has several dealerships from different sectors like 'Tesla Power USA' (Batteries),

'Kennametal', 'Wedia', 'Emuge' (Cutting Tools), 'Grundfos Pumps' (Pumps), 'Aeosmith' (Heat Pumps) and many other. He is also expanding his business in Manufacturing & assembly sector.

He has interest in travelling. Recently has done world's highest Motorable passes 'Khardung La' & 'Chang La' in Ladakh on bike at -5°C temperature and at oxygen level of 70.

Mr. Harshvardhan Patil may be contacted on Email: harsh.patil1720@gmail.com Mobile: +91-8007474396.

Volunteer yourself for your Chapter!

For more efficient working & expanding network of your ASM International Chapter, please support your chapter by offering your time. Lot of avenues to choose areas of your liking. Options are - Membership Development, Education Programs, Students Outreach, Member Service, Website, News Letter, Technical Program and Social Events. Contact ASM International Pune Chapter asm.pune@gmail.com



ASM International Pune Chapter

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Web: www.asmpunechapter.com

MoU signed between Government Polytechnic, Nagpur and American Society of Materials (ASM) International Pune Chapter

In an event dated 18th September 2021 a Memorandum of Understanding (MoU) has been signed in between Government Polytechnic, Nagpur and American Society of Materials (ASM) International Pune Chapter.

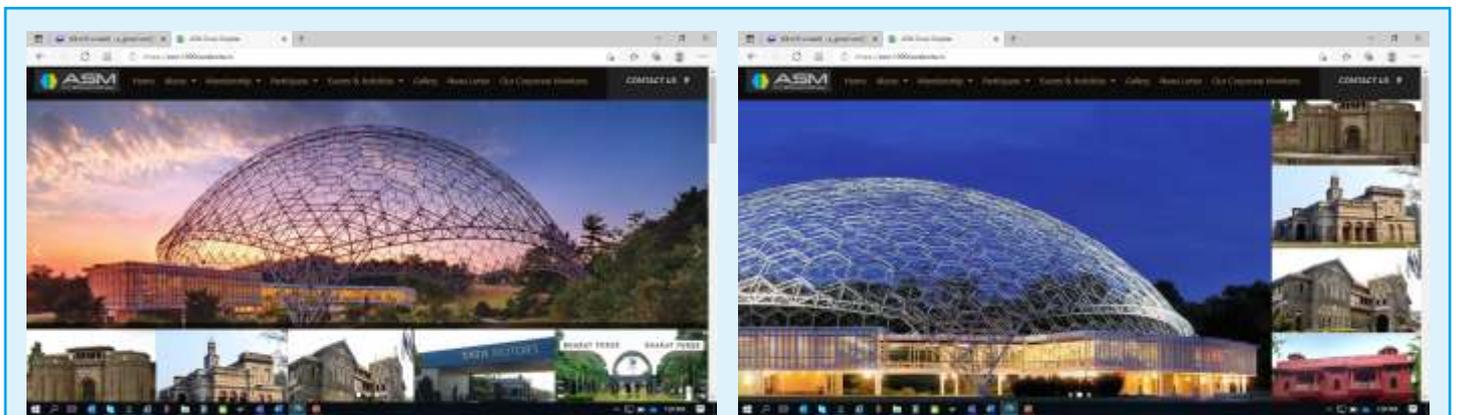
ASM International Pune is a well-recognized and vibrant chapter of ASM International and Government Polytechnic, Nagpur is a leading educational institute with 104 years of existence in the region.

This MoU gives broad guidelines and a roadmap for collaborative activities between both organizations. This MoU is in line with vision of the Metallurgy Department of Government Polytechnic which emphasizes on “To produce excellent, self-motivated, creative and ethical metallurgical technicians for industries and society” and vision of ASM International as well “To be the leading resource for the advancement of materials knowledge in industry, education, government and society as a whole”.

Under this MoU, both the organizations commit their dedication for joint activities for the benefit of students and faculties while enriching domain knowledge by mutual exchange.

MoU was signed by Dr. M. B. Daigavhane, Principal, Government Polytechnic, Nagpur and Er. Udayan Pathak, Chairman, ASM International, Pune Chapter, Prof. K. L. Meshram, HoD, Metallurgy Department and Prof. Yogesh Dandekar, Executive Member, ASM International Pune Chapter. Dr. B. P. Joshi, Principal, Cummins College of Engineering for Women, Nagpur and Dr. D. S. Kulkarni, Former Principal, Government Polytechnic, Nagpur were the honorary witness of the MoU signing program.

Shri. Praful Jamdar, Director of Heatreatwell, Nagpur was a chief guest of the event and proposed his extension towards the activities of the joint venture.



The ASM Pune Chapter's website has been updated with a new look and new functionality. It is available at www.asmpunechapter.org. In the following months, we hope to make it more dynamic by adding user-friendly and useful features. Please browse the website and provide feedback on how it might be improved further.

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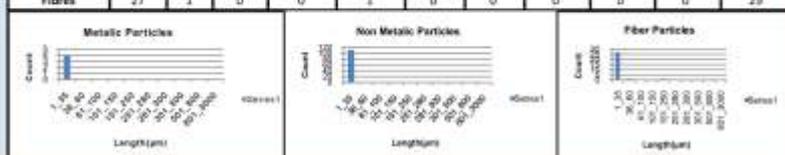
PARTICLE TEST REPORT.

Customer	ABC		
Part No:	A124N	Recd Date:	04-Jun-18
Report No.:	1572	Department :	QA Lab
Sample ID:	ABC	Test Date:	05-Jun-18
Analysis:	Particle	Standard Specification:	As per ISO 16232
Magnification	100X	Fiber paper Size:	47 mm
No. of Fields :	5	Scanning Area	10 mm



Particle Size Analysis

Size ranges(µm)	1_35	36_60	61_100	101_150	151_250	251_280	281_300	301_500	501_800	801_3000	Total Count
Metallic	4	0	0	0	0	0	0	0	0	0	4
Non Metallic	111	3	0	0	1	0	0	0	0	0	115
Fibres	27	1	0	0	1	0	0	0	0	0	29



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