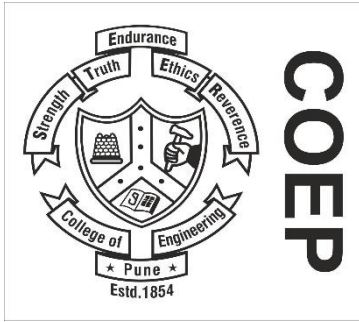




DEPARTMENT OF METALLURGY AND MATERIALS SCIENCE, COLLEGE OF ENGINEERING, PUNE

&

INDIAN INSTITUTE OF METALS, PUNE CHAPTER

Presented,

META VISTA'22

Materials Engineering: Evolution to Innovation

6-7 April, 2022

META VISTA'22

Industry 4.0 is challenging and full of opportunities for organizations and educational institutions like ours. Be it the mining sector, steel industry, healthcare, software, and Tech industry, Materials Engineering has always been one of their founding pillars. This branch of engineering has evolved a lot to date and is continuously innovating in various areas to cater to the upcoming demands of customers.

Meta Vista'22 is an event in which industry and academia come together to share their learnings and experiences to bridge the gap between them. It's an opportunity for our students to compete and showcase their technical skills to peers and the industry. The event was sponsored by Industrial Metal Powders (IMP) India Private Limited and was co-sponsored by Conation Technologies, SimTech Separation Technologies and N. D. Gupta Enterprise.

The Meta Vista '22 event was able to reach its best with the timely help provided by the Officiating Director Sir, Prof. Dr. B. B. Ahuja, College of Engineering Pune.

We were not able to conduct Meta Vista for the previous two years because of the COVID-19 pandemic. This year in 2022 we wanted to make a gala comeback. This year, we conducted over 7 events in hybrid mode (offline and online) to foster individuals' grooming interest in metallurgy and innovation.

INAUGURATION

The Meta Vista 2022 was jointly organized by the Metallurgy and Materials Science Department, COEP, and Indian Institute of Metals, (IIM) -Pune Chapter on the 6th & 7th April 2022. It was a grand success, with an overwhelming participation of around 176 students from the various fraternities like COEP, Government Polytechnic Pune, KJEI Trinity College of Engg and Research and Indus Institute of Technology and Engg, Ahmedabad. The various events and lectures conducted under Meta Vista'22 proved to be enlightening for the budding student metallurgists for the emerging trends in the field.

At the outset in Mini Auditorium, COEP, the inauguration was a memorable affair, graced by the presence of Mr. Prakash Dhoka (Managing Director, Industrial Metal Powders (IMP) India Pvt. Ltd.) as the Chief Guest for Meta Vista 2022, Prof. Dr. B. B. Ahuja (Officiating Director, COEP), Mr. Lalit Kumar Pahwa (Chairman, IIM Pune Chapter) and Prof. Dr. S. P. Butee (Head of Department of Metallurgy and Materials Science, COEP).



Photo 1: Inauguration: Lamp lightening Ceremony



Photo 2: Felicitation of Dept. Alumnus and Chief Guest, Mr. Prakash Dhoka from the Officiating Director – COEP, Prof. Dr. B.B. Ahuja



Photo 3: Inaugural snap of Meta Vista '22



Photo 4: Sharing of information, knowledge and experiences on Meta Vista '22 dias.

Mr. Prafull Thokal, Chairman, IIM Pune Chapter - Student body, welcomed all the respected dignitaries and sponsors for Meta Vista '22. Mr. Lalit Kumar Pahwa gave insights about IIM and progress and research work throughout the journey of 75 years (since 1948) of Indian Institute of Metal – Pune Chapter (www.iimpc.com). Prof. Dr. S. P. Butee threw light on the various developmental activities within the Department of Metallurgy and Materials Science and invited all the attendees to be a part of the celebration of completion of 75 years of establishment of the Dept. of Metallurgy and Materials Science. Prof. Dr. B. B. Ahuja explained the meaning of **Evolution to Innovation** in Metallurgy context and gave a mantra that Metallurgy and Materials Science has an outstanding future ahead. He asked everyone to think about the potential within and contribute to the growth of the nation.

Prof. G.K Ogale's Memorial Lecture was delivered by the Chief Guest, Mr. Prakash Dhoka, IMP India Pvt. Ltd. His talk was focused on the ways to reach "Success" by doing innovation. Through his 50 years of inspiring journey, Mr. Dhoka mentioned the Motivation and Spiritual formula for Success which includes Passion, Purpose, People, Perseverance, and Mentor (i.e., 4P and 1M concept). To be spiritually sound, he insisted on establishing a proper balance between the four wheels of life, i.e., social, work, personal, and relationship. This lecture proved to be mesmerizing and enriching in a true sense for the audience.

EVENTS CONDUCTED

Meta Vista'22 was conducted in hybrid mode on 6th and 7th April 2022. Some Events were conducted online, and some were conducted offline. All online events were conducted on 6th April and offline events on 7th April. Online events were conducted on the D2C (Dare to compete) platform.

1. Meta Doc

Event objective: One of the basic jobs of a Metallurgist is to produce a technically feasible and sometimes cost-effective solution to a scientific problem. In this event, the metallurgical aptitude of the student was evaluated with respect to the selection of materials. This event was conducted in hybrid mode with 2 rounds. First-round was held on 6th April 2022 at 9:30 AM in which Multiple-choice questions, descriptive type, and numerical type questions were asked. Round 2 was offline which was conducted on 7th April 2022.

Total Participation – 56; COEP Students – 56

2. Quiz on Fire

Event objective: We knowingly or unknowingly deal with the various aspects of Metallurgy and Materials Science in our day-to-day life. Some interesting facts are surprising to many of us. In this event, the participants were quizzed for their understanding in this regard. This event was an online team event conducted in 2 rounds on 6th April 2022. In round 1 basic metallographic question were asked by the anchor and the team who knows the answer and hit the buzzer first got a chance to answer. Shortlisted team qualified for round 2 went through a rapid-fire round.

Total Participation: 59 (19 Teams); Students from COEP – 45; Students From Govt. Polytechnic Pune (GPP) - 14

3. Meta Analyte:

Event objective: In the context of Metallurgy, the mathematical or thermodynamic evaluation of a process or a system is a must. Through this event, the Metallurgical Observation and Analytical skills of the participants were checked. This event was online having 3 rounds conducted on 6th April 2022. In this event, a twisted metallographically word was given and some hints and clues were provided to identify the words. It was the most successful event of Meta Vista with maximum registration.

Total Participation: 87; Students from COEP – 62; Students From GPP - 25

4. Rewarding Research Review

Event Objective: A literature review is the foundation of any research taking place in all fields. This event will ask the participant to understand and review the given research paper and put it down in their own words. This was an online event conducted on 6th April 2022. In this event, 2 rounds were conducted. In first round low impact factor research paper was provided to sum up in their own words. Later, in the second round, the shortlisted students were given high impact factor research paper for making the summary.

Total Participation: 5; Students from COEP – 3; Students From GPP – 2

5. Meta-Memes

Event Objective: There are facts related to Metallurgy and Materials Science that can be put down in a more influential way and can be spread among a larger crowd. This event will give a chance for the participants to showcase their creativity in this area. These were online events and were conducted on 6th April 2022. In this event, participants made a meme on the given metallurgical concept. The submitted memes were later on projected during valedictory for the audience.

Total Participation: 22; Students from COEP – 17; Students From GPP - 5

6. Metallography

Event Objective: As a metallurgy student, the basic knowledge about microstructure is important. Along with composition, numerous other properties can also be obtained from microstructure. This was an offline event having two rounds conducted on 7th April 2022 in Metallography Lab, COEP. In the first-round, basic metallography quizzes were conducted and in 2nd round, participants were required to prepare specimen samples and show the microstructure on Inverted Microscope: SuXMA Met IB provided by Conation Technologies for the event. This event was judged by Dr. Samarbijay Sarkar, Mr. Appasaheb Pacharne from COEP and Mr. Prasanna Soman from Conation Technologies.

Total Participation: 38; Students from COEP – 16; Students From GPP – 22

7. Industrial Problem Solving

Event Objective: Industrial Problem Solving is a setup that allows the students to assist industries in solving the issues which occupy them on a regular basis. Companies come up with problem statements

which are then presented to the participants. Participants come up with their solutions to these problems. The solutions which are the most appealing and feasible for the company are then rewarded accordingly. This was an offline event conducted on 7th April 2022. In this event, seven problem statements were provided by the industry and the participants were required to find the best possible technical solution. This event was examined by Mr. Ritik Basu and Mr. Satish Shinde from Bharat Forge, Mr. Sambhaji Pawar, and Dr. Madhu Ranjan from COEP.

Total Participation: 68; Students from COEP – 50; Students From GPP – 12; Students from Indus Institute of Technology and Engineering Ahmadabad – 3; Students from KGI trinity college of engineering and Research – 1.



Photo 5: Photos from the various events organized during Meta Vista '22

VALEDICTORY

The valedictory ceremony of Meta Vista '22 was conducted on 7th April 2022 at 4 pm in Mini Auditorium, COEP. The dias for the valedictory ceremony was graced by Mr. Ritik Basu and Mr. Satish Shinde from Bharat Forge, Dr. S. P. Butee, Mr. Sambhaji Pawar, and Dr. Madhu Ranjan from COEP. The ceremony started with awarding the Late Prof. Dr. S. G. Kulkarni Award to the topper of Materials joining subject. The awards were given to 2020 Batch: Yogesh Shete, 2021 Batch: Harshvardhan Patil and 2022 Batch: Suyash Peshave. Later, the felicitation of students who won prizes in all online as well as offline events conducted in Meta Vista '22 was carried out. Later, Dr. V. S. Poddar, Convener – Meta Vista '22 proposed the vote of thanks to all dignitaries and sponsors who supported and guided the organizing committee from time to time in making this event a grand success.





Photo 6: Valedictory of Meta Vista '22

IIM PUNE CHAPTER STUDENT BODY

Academic Year 2021-22

Student Chairman: Prafull Thokal

General Secretary	Om Bhandari	Design Team	Yash Bhoskar
Joint Secretary	Hrishikesh Deodhar	Design Team	Kushal Deulkar
	Ashik Chiramal		Anjali Nawkar
Treasurer	Varun Muthiyan		Chetaneshwari Nivargi
	Bhushan Langote	Infrastructure Team	Vaishnavi Patil
Operations Team	Sahil Kushare		Sanket Tambe
	Rohan Magar	Publicity Team	Vaidehi Pajai
Documentation Team	Abhishek Nagare		Saad Jamadar
	Sumedh Kothawade	Refreshment Team	Priyanshu Raghuwanshi
Finance Team	Prathmesh Brahmanekar		Abhay Khade
	Indraneel Bhosale	Purchase Team	Kiran Gaikwad
	Sanika Sonone		Om Gawande