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Metallurgy
Materials Engineering

IIM DELHI CHAPTER BOOKLET

IIM PLATINUM JUBILEE YEAR 2021-22





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Message

It is heartening to note that the Delhi Chapter of the Indian Institute of Metals is bringing out a booklet tracing the various activities undertaken including its flagship biannual event MMMM on the occasion of the Institute's Platinum Jubilee Annual Celebration. Indeed the Institute has a long and glorious history, which includes its many contributions to the metallurgical profession. Recalling the roles of many individuals who contributed to the stability and growth of our Institute is a wonderful way of paying tribute to their selfless service.

Delhi Chapter is a prominent one for our Institute and they have great potential to grow in making road maps for the Government / Ministries and also providing service to many metals and manufacturing in industries which are located in and around NCR.

I wish the Chapter great success and look forward to the publication of the booklet.

20th July 2021



(Amol A. Gokhale)



T V Narendran
CEO & Managing Director



Message

I am delighted to note that the Delhi Chapter of The Indian Institute of Metals is bringing out a booklet to commemorate the Institute's Platinum Jubilee Celebrations. The Delhi Chapter, founded in 1953, has a long and glorious history which the booklet has tried to trace. The booklet gives details of the flagship bi-annual event of the Delhi Chapter – the Minerals Metals Metallurgy and Materials (MMMM) exhibition and pays tribute to all the past Chairmen and Secretaries of the chapter since its inception.

With a renewed focus on the theme of Sustainability during the Platinum Jubilee year of the Indian Institute of Metals, I am sure that the Delhi Chapter will help draw a technology roadmap for the metals industry and help make the nation future ready. It is also expected that the Delhi Chapter, through its numerous forums, will continue its good work to build talent pipeline for the metals industry.

I wish the Delhi Chapter great success in its future endeavours and look forward to the publication of the booklet.

With warm regards,

A handwritten signature in black ink, appearing to read 'T V Narendran', with a long horizontal stroke extending to the right.

T V Narendran

Date : 6th August, 2021

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I congratulate the Indian Institute of Metals on the occasion of its 75th anniversary, a milestone year for this stellar organisation which has done so much good work to draw attention to the role of the metallurgical industry in the advancement of our country.

India's aspirations of advancing as a manufacturing hub for new industries can be fulfilled by enhancing our nation's metal R&D infrastructure, talent pool and knowledge ecosystem. These capabilities will feed into the needs of our Atma Nirbhar Bharat vision and the requirements of the growing economy.

As we celebrate the platinum jubilee year of this illustrious organisation, we need to enhance our focus on skill development and technical capabilities in the non-ferrous metals sector. The nation will benefit from better technical skills and knowledge capacity in non-ferrous metals, along with the metals that form critical inputs for our connected world.

Metals form the foundation of society's progression into a Greener, Stronger, Smarter planet, with more environment-friendly choices across varied sectors - from construction and transportation, to solar energy, smart devices and sustainable packaging and IIM believes that the time is right to sharpen its focus on building a robust R&D ecosystem that can benefit the entire span of the metals industry.

I would like to compliment the IIM Delhi Chapter for bringing out this booklet that captures the various activities and events it has held so far as well as for providing the coordinates of its members to facilitate better interaction. Please accept my sincere best wishes for all your future endeavours.

Best regards,

Satish Pai
Managing Director

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Message from Mr. Kushal Saha Secretary General, IIM



Remembering its **75 years of journey**, The Indian Institute of Metals [IIM] planned to celebrate the Platinum Jubilee year 2021-2022, by bringing together the nation's most innovative metallurgists and thought leaders through various international collaborations and hosting events on national and international topics of interest.

This is indeed a celebration of IIM's pre-eminent presence in the Metallurgical fraternity. Amongst many events being planned to earmark this journey, our Chapters hosting monthly webinars on topics of national interest related to IIM [PJMWS]; release of Special Issues of IIM Transactions; holding platinum jubilee related contests [logo & essay writing], hosting events, in association with Ministry of Steel etc. are a few of the distinct ones to be noted.

It is anticipated that the Platinum Jubilee celebrations across the fraternity will create excitement among professionals, students and public at large. This will give a chance for our Chapters to gain visibility and national presence besides revitalizing the local chapter membership.

As the Secretary General of the Institute, I would request all individuals who have interests in metallurgy and related subjects to join us, the nation's most innovative metallurgists and thought leaders forum. It's a relatively diverse set of professionals encompassing metallurgists, materials scientists, chemical engineers, mechanical engineers, earth scientists etc., and yet they are united in their goal viz. to discover, manufacture, and deploy advanced materials in an accelerated manner and most importantly to define the role of emerging materials and technologies in developing economies.

A handwritten signature in blue ink, appearing to read 'K. Saha', written over a light blue rectangular background.

Kushal Saha
Secretary General
20.07.2021



Foreword

It is a matter of pride that Indian Institute of Metals (IIM) has entered into its 75 years of existence & planned series of events as part of its Platinum Jubilee celebration in 2021-22. On this occasion, it was felt appropriate to introspect and document the story of IIM-Delhi Chapter in the form of booklet.

This booklet is the compilation of history of IIM, Evolution & Growth of IIM - Delhi Chapter, activities carried out by IIM Delhi Chapter during 2019-21, glimpses of our flagship event - Minerals, Metals, Metallurgy & Materials (MMMM) held so far, directory of members with their contact details and brief professional profile for better networking. Preparing a historical record of IIM, Delhi Chapter has been a challenging task made even more so due to the imperative in ensuring its readability and holding the reader's interest throughout.

I express my gratitude to Executive Committee members for rendering their support & cooperation in bringing out this informative booklet.

My special thanks to Shri L. Pugazhenty, Past President, IIM who is source of inspiration to IIM-Delhi Chapter for taking out old historical data from his files for preparing the write up on Evolution & Growth of IIM-Delhi Chapter

I compliment my IIM–Delhi Chapter dedicated staff Shri Bhimsainji & Shaji George K, who have painstakingly prepared this booklet under our guidance. I also appreciate the efforts put by Shri Mahesh Chand, Anuj Sharma & Umakant Pandey for managing very efficiently day to day activities of our chapter.

I hope this booklet on IIM-Delhi Chapter besides being a repository of achievements & legacy of this active & vibrant chapter would be a useful reference document for posterity of our Chapter in the years to come.

K K Mehrotra
Chairman
IIM Delhi Chapter
July 30, 2021

75 YEAR journey of The Indian Institute of Metals

The idea of formation of an Indian Institute for metallurgists was conceived as early as in 1945. This was possible by the efforts of a few metallurgists, who realised the need for an adequate body for professional metallurgists in India. During that time many of the technical information were not easily available in India. Communications with other countries were difficult because of the war. The ordnance factories and many other industries involved in manufacture of various products for the war efforts were greatly handicapped because of the non-availability of technical information on metallurgy. The Inspectorate of Metals in the ordnance factory was the only reliable organisation who could undertake investigations on metal products.

It was in this background that about a dozen young metallurgists met informally in Calcutta and discussed the issue at the residence of Dr. Dara P. Antia, who was then Chief Metallurgist of Indian Aluminium Co. It was unanimously agreed that an institute of metallurgists in India should be formed. Later, various metallurgists holding senior positions in India were approached for their support. Also, a large number of people in high positions in Government and Industries were approached. At the same time a Memorandum and Articles of Association were drafted after studying the memorandum and articles of various bodies. The Iron and Steel Institute, UK and Institute of Metals, UK also welcomed the idea and suggested formation of a single institute and not various separate institutes such as Metals, Iron and Steel, etc. Accordingly the Memorandum and Articles were finalised and the Institute was registered at Calcutta. An Organisational Council with Dr. Dara P. Antia who played a key role in establishing the Institute as President was formed to manage the affairs till the election of the first Council. The House of Tatas provided office space in Calcutta.

The first Organisational meeting was held on 24th February, 1946 at the residence of Mr. K. C. Sood in Calcutta. Later, four more meetings were held within two months. These meetings were mostly attended by Shri Dara P. Antia, V. Rama Iyer, R. N. Kapoor, R. Krishnasamy, P. K. Paul, B.A. Rao, D.V. Reddy, C.J. Shah, S. Sircar and K. C. Sood. The Institute was inaugurated by Hon'ble Dr. Shyama Prasad Mukherjee, Minister for Industry and Supply on 29th December 1947 at the Royal Asiatic Society Hall, Calcutta. Sri Jahangir J. Gandhi became the first President and Dr. Dara P. Antia the first Honorary Secretary of the Institute.

Since then, the growth of the Institute has been phenomenal. Starting with a modest membership of 42, the IIM Membership now stands more than 10,000 drawn from various fields of metallurgical activity across 58 chapters. Membership requirements are rigid to maintain the highest professional standards. The Institute has grown into a reputed Institution devoted to promotion and advancement in the study, practice and

research of Metallurgical Science and Technology. The Indian Institute of Metals is now recognised throughout the world as one of the premier metallurgical organisations.

The scope of the Institute activities includes mineral beneficiation, extraction, fabrication, heat treatment, finishing as well as practical and theoretical aspects of metallurgy of all ferrous and non-ferrous metals and alloys. Ceramics and other disciplines and technologies allied metallurgical problems also come under the scope of the Institute.

The activities of the Institute include organising national and international technical conferences and programmes, research activities, publications, conducting qualifying examinations etc. Although there is a small permanent staff of the Institute, almost all the activities are carried out through the Honorary services of the Office-bearers, Council Members, Chapter Chairmen, Secretaries and Treasurers as well as a large number of Institute members.

Evolution & Growth of The Indian Institute of Metals-Delhi Chapter

The Indian Institute of Metals, conceived by a group of dozen young metallurgists in 1945, was inaugurated by Dr. Shyama Prasad Mukherjee, the then Minister for Industry and Supply, Govt. of India on 29 December 1947; the doyen of metallurgy Dr. Dara P. Antia, the first Hony Secretary of IIM, had the foresight and he was largely instrumental in giving the desired shape to the Institute by creating several Chapters across the country as well as identifying appropriate leaders for the newly formed Chapters.

Genesis of Delhi Chapter:

Six years after formation of The Indian Institute of Metals in 1946 at Kolkata, in March 1953, Delhi Chapter was founded with Dr. D.N Wadia FRS, an internationally renowned geologist as the very first Chairman who served for six years; since not many metallurgical units were located in and around Delhi. In the beginning mostly officers from different ministries of the Govt. of India, Planning Commission, Indian Standards Institution, National Physical laboratory etc., were the office bearers of the Delhi Chapter



On the Growth Path:

Starting with a few members in 1953, today the Chapter has more than 200 members. Even today in and around Delhi there are not many big metal producing units. The day-to-day activities of the Chapter are coordinated and managed by an Executive Committee consisting of senior and young metallurgical professionals who have made their mark in different fields. They render honorary services to promote the objectives of the Institute.

Activities & Services:

The Chapter has been very active from the very beginning by organizing international conferences, national seminars, workshops, technical talks, plant visits etc. In the past the Delhi Chapter used to organize almost every year technical events on steel and nonferrous metals in association with Steel Furnace Association of India, Indian Nonferrous Metals Manufacturers Association etc. The Delhi Chapter celebrated its Silver Jubilee in 1978 and the Golden Jubilee in 2003 in a grand manner.

The Silver Jubilee and Golden Jubilee Celebrations of IIM took place at Delhi in 1972 and 1996. The guests at the Silver Jubilee function included the well known Union Ministers, Shri C.Subramaniam, the then Minister for Planning, Science & Technology and Shri Mohan Kumaramangalam, the then Minister for Steel.



The Golden Jubilee Celebration of IIM was inaugurated by Dr. Shankar Dayal Sharma, the then President of India in presence of the then Steel Minister, Birendra Prasad Baishya.

Delhi was also the host for hosting five successful NMD-ATMs in 1958, 1972, 1988, 1996 and 2006 when senior members of the Chapter became the Presidents of IIM. At the NMD-ATM in 2006, Shri Ratan Tata was honoured with the first IIM-JRD Tata Award for Excellence in

Corporate Leadership in Metallurgical Industry.

As an outreach programme, Delhi Chapter had also organized seminars at Jodhpur, Agra, Faridabad etc. in association with the local metal industries/colleges. In order to promote a flair for metals and metallurgy, among the class 10 to 12 students, office bearers of the Chapter used to visit and address them with a quiz programme in a number of schools in and around Delhi.

In association with Aluminium Association of India, the Delhi Chapter organized a very successful and well attended International Conference on Aluminium in 1985, well known as **INCAL 85**. This event was held in Vigyan Bhavan, New Delhi and it was inaugurated by Shri Pranab Mukherjee, the then Minister for Steel & Mines, Govt. of India. Because of the numerous technical activities, membership development etc., Delhi Chapter received the Best Chapter Award in 2012. A large number of office bearers and members from Delhi Chapter also received several prestigious awards & honours during various NMD-ATMs.



Ratan Tata being honoured

For the last several years the Delhi Chapter has been bringing out the Chapter Newsletter "Met Info" with very informative articles on steel, nonferrous metals, industry news, statistical data etc. This newsletter, widely circulated in India among the Council Members, Chapters etc., has received widespread appreciation.

THE INDIAN INSTITUTE OF METALS - DELHI CHAPTER	
	<p align="center">"MET-INFO" INHOUSE PUBLICATION</p> <p>ISSUE NO. 17 E-VERSION SEP / OCT 2020</p> <p align="center">K K Mehrotra-Chairman, Delhi Chapter S C Suri-Editor-in-Chief (IIM-DC Newsletter)</p> <p align="center">For Private Circulation only</p>
	<p>Contents of E-Version of this Issue</p> <ol style="list-style-type: none"> 1. Galvanising Industry in India- Past, Present & Future 2. Imperatives for India Steel Industry in a Post-Covid-19 3. Tata Steel eyes replacing coking with thermal coal 4. Tabulation containing information on 'Performance of Indian Steel Industry' in April-May 2020-21 vis-à-vis April-May 2019-20 5. Write-up on Responsible Steel
<p align="center">Published By The Indian Institute of Metals Delhi Chapter Jawahar Dhatu Bhawan 39, Tughlakabad Institutional Area M B Road, Near Batra Hospital, New Delhi-110062 Tel: 011-21820057, 011-29955004 E-mail: iim.delhi@gmail.com Website: iim-delhi.com</p>	 <p align="center">FRONT VIEW OF IIM-DELHI CHAPTER</p>  <p align="center">SIDE VIEW OF IIM-DELHI CHAPTER</p> <p align="center">E - Version</p> <p>ISSUE NO. 17 E-VERSION SEP/OCT 2020</p>

IIM DC Newsletter

named aptly “Jawahar Dhatu Bhawan”.

During the inauguration of the Chapter’s Silver Jubilee in 1978, the Delhi Chapter appealed for a suitable plot of land to the then Minister for Defence, Shri Jagjivan Ram who came to deliver the inaugural address. Shri Jagjivan Ram, during his address, promised to recommend allotment of land for constructing a building for the Chapter. On behalf of Delhi Chapter, the then President of IIM & SAIL Chairman Shri S. Samarapungavan took up the building matter at the National Council and got their approval. After constant follow-ups, the Ministry of Steel recommended to Delhi Development Authority for allotment of land; finally DDA allotted a plot of land measuring 1000 sq. mtrs. in Tughlaqabad Institutional Area in 1985.

With the active support and guidance from Late V R Subramanian, Past Chairman of IIM DC & the then Executive Director of India Lead Zinc Information Centre, (now renamed as ILZDA), an appeal was made to all mineral and metallurgical industries in India to liberally contribute for the building in cash

Chapter Building:

In the early years, the affairs of the Delhi Chapter were mostly managed by the respective Hony Secretaries from their offices. From the mid seventies till shifting to the new building, the secretariat of the Delhi Chapter operated from the residence of one of the senior members of the Chapter.

Since The Institution of Engineers (India), The Institute of Electronics & Telecommunication Engineers etc. had their own buildings at Delhi, the Delhi Chapter Executive Committee also felt the necessity for having its own premises at Delhi. The proposal was discussed & approved at the Executive Committee meeting. The original idea was to house metals – related non profit Associations / Societies in the building and a display of metal products, castings etc., in the basement. The building was later



IIM DC Building

or kind. SAIL donated the required quantity of steel for the building. The foundation stone laying ceremony for the building was held on 10th October 1989. The then Union Minister for Steel, Shri M L Fotedar laid the foundation stone. While a major part of the building was constructed by 1991-92, the auditorium could not be completed due to paucity of funds. ILZDA, a Donor Member, was the first occupant of our Chapter building from 1992 to 1994. The Chapter shifted its office to this building in 1994. Auditorium work was completed in 2011. Now it is a 5 storeyed building, including the basement.

The Chapter building has the following facilities:

- a) Air conditioned auditorium with a seating capacity for 120 persons
- b) HRD Hall with a seating capacity for 30 persons
- c) Board Room with a seating capacity for 20 persons
- d) Library with an inventory of 800 books
- e) Lift
- f) Roof Top Solar Panel



Auditorium with a Balcony



Roof top Solar Panel



Plants Visit by Members

Minerals, Metals, Metallurgy & Materials (MMMM) Flagship Event

In the past, Delhi Chapter always used to organize seminars, conferences, workshops etc. For the first time, in 1995 the Delhi Chapter organized a seminar-cum-exhibition on Forging in co-operation with an association of the forging industry. This event generated a good surplus and sensing the opportunity the Executive Committee decided to organize such a conference-cum-exhibition periodically. That is how the most popular and flagship

event of the Delhi Chapter “MMMM” came into being. Bids were invited from a number of Event Managers and one of them, experienced in mineral-related events, was chosen for the event.

Accordingly the very first MMMM was organized in 1996 with a very good participation of Indian and overseas exhibitors, besides a very successful conference; this eventually became a biannual event i.e., once in two years. So far 12 such events have been held till 2018 on a variety of topics related to Metallurgical Industries.. MMMM-2020 event with International Conference – cum – Exhibition on “Resource Efficiency & Circular Economy in Mineral & Metal Sectors in India” that was scheduled to take place in August 2020 could not take place due to the global pandemic situation.

After the outbreak of COVID-19, the Delhi Chapter has been organizing periodically webinars on various topics with eminent speakers; these webinars have been well-received by the members. Topics covered were Aluminium, Future Prospects of Lead & Zinc, Recycling of Plastic & E-wastes, Future of e-mobility, Steel & Strategic Metals for the Defence Sector, Road Map for Climate Control etc., Such webinars will be continued in the coming months as well.

Way Forward:

COVID-19 affected the economy, population, industrial production, education, technical activities, social meetings etc.,

It is hoped that the pandemic will gradually decline and disappear in a few months from now so that the IIM Delhi Chapter can once again organize technical events like Seminars, workshops, MMMM-2022, executive committee meetings etc., regularly in physical mode as was being done in the past.

Executive Committee of IIM Delhi Chapter for 2020-21

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Special Invitee**

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**Chairman and Honorary Secretary,
since inception of the Chapter**

Year	Name of Chairman	Name of Hony. Secretary
1953-1959	Late Dr. D N Wadia	Late Balram K Mahendra
1959-1963	Late Dr. D N Wadia	Late K C Srivastava
1963-1964	Late C J Shah	Late K C Srivastava
1964-1965	-do -	Late R P Varshney
1965-1966	Late Dr. D Swarup	Late R P Varshney
1966-1973	Late Dr. P Dayal	Late R P Varshney
1973-1977	Late Dr. P E Mehta	Late R P Varshney
1977-1982	D P Jain	Late R P Varshney
1982-1985	Late V R Subramanian	L Pugazhenthay
1985-1986	Late V R Subramanian	Dr. S K Gupta
1986-1987	B D Jethra	-do -
1987-1989	B D Jethra	P N Shali
1989-1990	B D Jethra	Late R K Gupta
1990-1992	J Majumdar	Late R K Gupta
1992-1993	B R Thukral	Late R K Gupta
1993-1996	Late C L Sengupta	Late R K Gupta
1996-1997	P N Shali	Late R K Gupta
1997-2001	P.N. Shali	M M Bandopadhyay
2001-2002	P.N. Shali	M.M. Bandopadhyay
2002-2003	Dr. S K Gupta	M.M. Bandopadhyay
2003-2004	Dr. S K Gupta	P R Chandna
2003-2004	Dr. S K Gupta	Udayan Sen
2004-2005	Late R P Varshney	Late A R Kaujalgi
2005-2006	Late R.P. Varshney	Udayan Sen

2006-2007	Late R.P. Varshney	Deepak Jain
2007-2008	Late R K Gupta	Kuldeep Singh
2008-2009	Late R.K.Gupta	Late Dr. G N Mohanty
2009-2010	Raj Tiwari	V C Singhal
2010-2011	Raj Tiwari	V.C. Singhal
2011-2012	Anil Gupta	V.C. Singhal
2012-2013	Anil Gupta	V.C. Singhal
2013-2014	S C Suri	Manoranjan Ram
2014-2015	S.C.Suri	Deepak Vaidya
2015-2016	K L Mehrotra	Manoranjan Ram
2016-2017	K.L.Mehrotra	Manoranjan Ram
2017-2018	K.L.Mehrotra	Manoranjan Ram
2018-2019	B D Jethra	N K Kakkar
2019-2020	K K Mehrotra	N K Kakkar
2020-2021	K.K.Mehrotra	N K Kakkar

Technical Activities undertaken by the Chapter during 2019-21

- Plant Visit to M/s Star Wire India Ltd, Ballabgarh on 6.4.2019
- Technical Talk on “Nature and Role of R&D In Defence Preparedness by Dr. Arvind Bharti, Former Director General, DRDO on 29.4.2019.
- Technical Talk on “Standardisation and Quality Control Framework in Indian Steel Industry by Shri A C R Das, Vice Chairman, IIM DC on 14.9.2019.
- One day programme on “Development of Physical Simulation Using Gleeble and its Application in Steel Processing” held by IIT Delhi and IIM DC at New Delhi on 28.9.2019.
- Technical Talk on “Restructuring Schemes for Stressed Assets” on 30.11.2019 by Shri K K Mehrotra, Chairman, IIM DC.
- Presentation on “Industrial Revolution 4.0 by Shri K R Krishnakumar, Life Member, IIM DC on 1.1.2020.
- IIM Foundation Day Celebration at IIM DC on 22.2.2020.
- Webinar on Aluminium: Key Strategic Metal for Indian Economy held 20.9.2020
- Webinar on Future Prospects of Lead / Zinc in Indian Economy held on 17th October 2020
- Webinar on Recycling of Plastic / E-Waste on 28.11.2020
- Webinar on Future of e-Mobility in India: Emerging Scenario on 30.1.2021
- Webinar on Requirement of Steel and other Strategic Materials for Defence Sector on 6.3.2021
- Technical Talk on Road Map for Climate Control Technology & Policy Implementation for Indian Steel Plant on 27th March 2021
- Technical Talk on Product, Process & Application – Cold Rolling Mill, Tata Steel BSL, Sahibabad on 3.5.2021
- Technical talk on Pelletization: Industry Overview and MECON’s Role on 26.6.2021

Brief of MMMM events held so far by IIM Delhi Chapter

Since 1996, The Delhi Chapter in collaboration with reputed Agency having credential for organizing exhibition globally is organizing International Conference –cum–Exhibition in the area of Minerals, Metals, Metallurgy and Materials. This is popular with acronym MMMM. While holding exhibition is largely the responsibility of exhibition organizing agency, the onus of holding the conference lies with Delhi Chapter. However both the exhibition organizing agency and Delhi Chapter co-operate each other to promote the exhibition and Conference.

The Theme of the conference is selected taking into account the contemporary issues prevailing at the time of holding the Conference. This is a flagship event of our Chapter.

This event is held once every two years. Various organizations in India and overseas participate in the Exhibition and Conference. The Exhibition and Conference on MMMM have been enjoying appreciation from various organizations in India and overseas. So, far Delhi Chapter has organized twelve such events.

Glimpses of twelve MMMMs held so far by IIM-Delhi Chapter
MMMM 1996
The Metallurgical Industries in India: Prospects



MMMM 1998
International Seminar
on
Advances in Metallurgy

MMMM 2000
International Seminar
on
Minerals, Metals & Metallurgy in the 21st Century

MMMM 2002
International Seminar on Metals & Materials for the Automobile Industry



MMMM 2004
International Seminar on Emerging Trends in Metals & Materials in Mining, Manufacture & Market



MMMM 2006
Unleashing India's Potential in Metals & Minerals



MMMM 2008

Towards Global Leadership in Minerals & Metals



MMMM 2010

Indian Metals Industry in Shaping the Next Decade



MMMM 2012

Resurgent India – Vision 2020 in Metal and Mineral Sector



MMMM 2014 Emerging Trends in Metals & Mineral Sector



MMMM 2016 Minerals & Metals and their Contribution to Make-in-India



MMMM 2018 Minerals & Metals Sector – Growth Prospects in New Business Environment

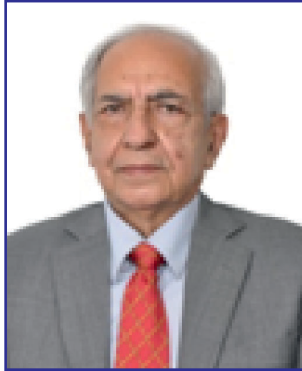


Laurels and accolades won by luminaries of Delhi Chapter

A number of our esteemed members have been honoured with various prestigious NMD/IIM/Chapter Level Awards. The notable amongst them are as under:

SI	Name	Category
1	Shri S. Samarapungavan	Honorary Membership & Past President, IIM
2	Shri A C Wadhawan	Life Time Achievement Award of NMD & Past President, IIM
3	Dr. S R Jain	Honorary Member & Past President, IIM
4	Shri L. Pugazhenthay	Honorary Member & Past President, IIM
5	Shri S K Roongta	IIM-JRD Tata Award for Excellence in Corporate Leadership in Metallurgical Industries
6	Shri B D Jethra	Honorary Membership
7	Dr. Sanak Mishra	Life Time Achievement Award of NMD & Past President, IIM
8	Shri S D Kapoor	Chapter Level NMD Award
9	Dr. A K Srivastava	NMD Award
10	Shri K L Mehrotra	Honorary Membership
11	Shri S C Suri	Honorary Membership
12	Shri K K Mehrotra	Life Fellow
13	Late R K Gupta	Honorary Membership
14	Shri G I S Chauhan	Life Fellow
15	Dr Arvind Bharti	Life Fellow
16	Shri Gautam Bhatia	Life Fellow
17	Shri A C R Das	Life Fellow
18	Shri Manoranjan Ram	Life Fellow
19	Dr Ramen Datta	NMD Award
20	Shri N Vijayan	Chapter Lever NMD Award
21	Shri M P Sharma	Chapter Lever NMD Award
22	Shri B R Thukral	Chapter Lever NMD Award
23	Late Dr G N Mohanty	Chapter Lever NMD Award
24	Shri Raj Tiwari	Chapter Lever NMD Award
25	Shri V C Singhal	Chapter Lever NMD Award
26	Dr Vipin Jain	Chapter Lever NMD Award
27	Shri P K Bajaj	Chapter Lever NMD Award
28	Shri N K Kakkar	Chapter Lever NMD Award
29	Shri R K Vijayavergia	Chapter Lever NMD Award
30	Shri Deepak Jain	Chapter Lever NMD Award
31	Shri P N Shali	Chapter Lever NMD Award

LIST OF MEMBERS WITH THEIR PROFESSIONAL PROFILE & CONTACT DETAILS



ARVIND PANDE

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New Delhi 110 049

Membership No. HNRM 30472

Tel: (O) 41620950, ® 26449980

M: 9810803811 (Whatsapp)

Email: apande726@gmail.com

Arvind Pande joined the Indian Administrative Service in 1965 and worked with the Govt of M.P., Govt of India, World Bank and the Prime Minister's Office.

Moved to the Corporate Public Sector in 1986, joining the Board of Directors of Steel Authority of India Ltd.(SAIL) as a whole time functional Director dealing with several areas like Corporate Planning, Personnel and Human Resources, Rourkela Steel Plant, Special Steel Plants, etc. to become Chairman and Chief Executive Officer from Jan. 1997 to September 2002. During this period successfully led the implementation of a major restructuring exercise for SAIL involving, among others, debt rescheduling, cost rationalization, productivity and quality improvements, human resource motivation and capacity building, reorganization of major assets and functions.

Has served on Boards/Committees/Advisory Groups of major organisations like the Board for Reconstruction of Public Sector Enterprises, Govt. of India, National Council of Applied Economic Research(NCAER), National HRD Network, HDFC Bank Ltd, Coal India Ltd., Visa Steel Ltd, XIM Bhubhaneshwar, CII National Council, International Iron and Steel Institute, Bengal Aerotropolis Projects Ltd., Sandhar Technologies Ltd, Era Infra engineering Ltd, Posco India Ltd., JPAL SA at IFMR, Essar Steel India Ltd.



B D JETHRA

H. No. A-303A, Sushant Lok-I, Gurgaon 122 009

Membership No. HNRM 01464

M: 9818326878 (WhatsApp), Email: jethra@yahoo.com

I have graduated in Metallurgical Engineering with First Class (Honours) from IIT. Bombay in 1962. I have experience of over half a century, including 13 years' field experience in erection, commissioning and management of industrial enterprises, nine years in public sector and three years in private sector, over 27 years experience in planning and development of industries & minerals and over 10 years in consultancy. Besides being involved in the formulation, execution and monitoring of the country's Five Year and Annual Plans in the entire industries and minerals sector, including large, medium, small, village and cottage industries, I have been intimately associated with all aspects of formulation, implementation and evaluation of industrial and mineral policies and programmes as well as Public sector in India, covering, inter alia, formulation, appraisal and economic evaluation of industrial and mineral projects, monitoring the progress of implementation of projects and schemes, industrial and public sector reforms, privatization, industrial sickness, restructuring and rehabilitation, corporate governance, etc.

I have been a member of several high-level Committees, Development Councils, Working Groups and Panels on different aspects of industrial planning, policy formulation, sickness, restructuring and rehabilitation of enterprises etc. I was Member- Secretary of the Eighth Five Year Plan (1990-95) and Ninth Five Year Plan (1997-2002) Working Groups on "Management of Public Enterprises". I was also Member-Secretary of the Eighth, Ninth and Tenth Five Year Plan Working Groups on Small and Medium Scale sectors as well as the "Study Group on Small Scale Enterprise set up by the Government of India. I was also a member of the Eleventh Five Year Plan (2007-12) Working Groups on Iron & Steel and Cement.

I have been actively associated with the IIM for over 46 years, having been Chairman of Delhi Chapter as well as Honorary Member of IIM. I have also been very actively involved in the organization of MMMM, the bi-ennial exhibition being organized by Delhi Chapter in association with Ms TAFCON Projects earlier and later with ITEI.



SUSHIL KUMAR ROONGTA

D-91, The Pinnacle, DLF Phase V, Opposite DLF Golf Course
Gurugram – 122 009
Membership No. LM01 37900
Mobile: 9810806414
Email: sk.roongta@gmail.com

Electrical Engineering Graduate from BITS, Pilani and PG Diploma in Business Management (International Trade) from IIFT, New Delhi- Gold Medallist.

Shri Roongta superannuated as Executive Chairman of Steel Authority of India (SAIL). Under his leadership, World Steel Dynamics, USA, adjudged SAIL as the 2nd best steel company globally next to POSCO. He was instrumental in establishing several successful joint ventures (JVs).He was the first Chairman of International Coal Ventures Limited (ICVL), a joint venture of five leading PSUs - SAIL, NMDC, RINL,CIL and NTP In June, 2011, Mr Roongta joined Vedanta Group – a globally diversified resource company, as its Managing Director, Aluminium and Power Business. . Mr Roongta served as the **Chairman, Board of Governors, Indian Institute of Technology (IIT), Bhubaneswar** (2012-2015).

Shri Roongta presently serves as **Director on the Boards of several companies in diverse fields, namely ACC Ltd., Jubilant Pharmova Ltd, J.K. Paper Ltd., and Hero Steels Ltd. etc.** He is member of the Board of Management, JK LakshmiPat University.

Shri Roongta had earlier served as Independent Director on the Boards of Axis Bank Limited, Hindustan Petroleum Corporation Ltd.(HPCL), The Shipping Corporation of India Ltd.(SCI) and Neyveli Lignite Corporation Ltd. (NLC) – three Navratna PSUs.

Shri Roongta was the member of many Task force / Expert committees constituted by Government of India.



L. PUGAZHENTHAY

Executive Director &

Past President, IIM (2008-09)

India Lead Zinc Development Assn., New Delhi
B4/230, Safdarjung Enclave, New Delhi 110 029

Membership No. HNRM 00775

Office Ph : 26057360, 26056889 & 29955536

Res : 26107331, Mobile : 9811004953

E-mail: ilzda.info@gmail.com

B.E (Met.) from NIT/REC, Trichy

Post Graduation in Business Mgmt.

Advanced Industrial Training in UK.

About 45 years experience in metals industry, that includes non ferrous metals as well as steel and sponge iron sectors. Technical advisory services, Market development, Policy Planning, HRD Training, Skill development, Standardization, International cooperation etc.



DR. SANAK MISHRA

341, Green Heavens, SAIL – CGHS
Plot No. 35, Sector-4, Dwarka
New Delhi 110 078
Membership No. 01946
M: 09810956664 (Whatsapp)
Email: mishra.sanak@gmail.com

Member of Governing Board, Steel Research & Technology Mission of India (SRTMI) MS, PhD, and Distinguished Alumnus Award; University of Illinois at Urbana-Champaign, USA.

BE and Centenary Year Distinguished Alumnus Award, Indian Institute of Science, Bangalore.

Alexander von Humboldt Fellow, at Aachen Technical University, Germany.

FNAE, FNASc, FIIM, FIE, FCSI, FIOD, FAIMA, FDMA. Honorary Member IIM.

Government of India-Ministry of Steel Best Metallurgist Award, National Metallurgist Award and Lifetime Achievement Award.

JRD Tata Award, Platinum Medal, Birla Gold Medal, Kamani Gold Medal, Tata Gold Medal, SAIL Gold Medal, Visvesvaraya Gold Medal, MRSI Medal, Bharat Shiromani Award, Udyog Rattan Award, Vijaya Bharati Samman, Pathani Samanta Samman, NP Gandhi Memorial Award, Jai Krishna Memorial Award

Formerly:

Managing Director Rourkela Steel Plant, and Member of the Board of Directors of Steel Authority of India Limited (SAIL); Founder Member & Executive Director, RDCIS, SAIL.

Vice President of Arcelor Mittal Global, and CEO- India Projects; Director, Arcelor Mittal India Limited, and Arcelor Mittal Design & Engineering Centre.

Senior Advisor, MIDHANI. Director, Schaeffler India Limited. Advisor-Essar Steel Limited.
Secretary General & Executive Head, Indian Steel Association.

Member of the Board, Nuclear Fuels Complex, Dept. of Atomic Energy, Govt. of India.

National Science Foundation Visiting Scholar, University of Pittsburgh, USA.

AICTE-INAE Distinguished Visiting Professor at IIT Delhi.

Member, Executive Board, International Council of Academies of Engineering & Technological Sciences (CAETS), USA.

Past President, Indian Institute of Metals (IIM).

Past President, Indian National Academy of Engineering

Past Chairman, International Organisation of Materials, Metals and Minerals Societies (IOMMMS), USA.



BHANU PRAKASH TAYAL

Flat No-2048, Tower-3, Block-B, GH-7 Society

Crossing Republik

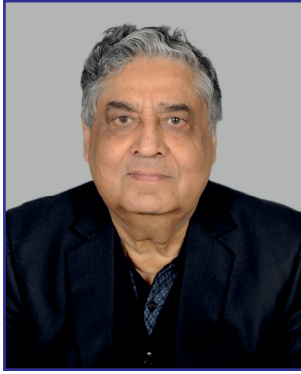
Ghaziabad-201016

Membership No. LM08 16387

Mob: 9891293601 & 9437576373.

E-mail: bhanu.tayal@yahoo.com

I worked for about 25 years (1988- 2013) with Atlas Steel Tubes [A unit of Atlas Cycles]. Presently I am working as General Manager (Tube Plant), Bhushan Power & Steel Ltd-Sambalpur [Odsha].



SHIV DAYAL KAPOOR

199, Sector 47, Gurugram -122018, Haryana

Membership No. LM01 32439

Mobile : 9810149510

Resi : 0124- 4075390

Email : sdk1946@gmail.com

Qualification:

B.Sc. (Met. Engg) from Institute of Technology, Banaras Hindu University, MBA from Leeds, U.K.

Professional Experience:

Superannuated as Chairman-cum-Managing Director of MMTC, a large Public Sector International Star Trading House under Ministry of Commerce, Government of India
Independent director on the boards of listed and privately held companies.

Expertise in domestic and international marketing and management of large PSUs, international marketing, logistics and distribution network.

Finalized number of international contracts; participated in many bilateral and multilateral trade negotiations; instrumental in setting up an independent iron and steel plant in Odisha; headed a PSU as CMD for over 7 years.



S C SURI

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New Delhi 110 076

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Membership No. HNRM 01500

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Shri S C Suri graduated with a Bachelor Degree in Science (B.Sc.) in Chemistry Honors with second rank in Delhi University in 1957.

He completed his post graduate studies in Metallurgy from IISc Bangalore in 1959.

He joined SAIL in 1959.

During his various positions in SAIL, he travelled widely on several occasions to Europe, USA, UK and Japan.

Superannuated from SAIL as Executive Director in September 1995.

After his superannuation he worked as Advisor/ Consultant in SAIL, MMTC Centre for Policy Research.

Became a life Member of IIM in 1988, Life Fellow of IIM in 1993 and Honorary Member in 2013.

Bestowed IIM outstanding service Award in 2015.

Was Chairman, IIM Delhi Chapter from 2013-14 to 2014-15.

Closely associated with organising various International Conferences on Minerals, Metals, Metallurgy and Material (MMMM) at Pragati Maidan, New Delhi from 2010-2018.

Wrote a Book on "Indian Steel Perspectives 2025".



K L MEHROTRA

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klmehrotra48@gmail.com

Over 40 Years' experience in various positions in Private, State and Central Sector organizations in the field of:

- ❖ Power & Co-generation projects
- ❖ Chemical & Fertilizer Industry
- ❖ Project Construction and Turn-key projects
- ❖ Mineral Exploration & Development & Mining
- ❖ Sugar Industry / Bio-gas Projects
- ❖ Export Marketing
- ❖ General Administration & Senior Management
- ❖ Engineering Project (India) Limited, New Delhi – Ministry of Heavy Industries for over 14 years.
- ❖ Managing Director, Praga Tools Ltd., Hyderabad under Ministry of Heavy Industries, Govt. of India
- ❖ Held the post of Chairman-cum-Managing Director, MOIL LTD (Manganese Ore (India) Limited), Nagpur a Miniratna Category – I PSE under the Ministry of Steel, Govt. of India.

- ❖ Also held additional charge as CMD (I/C) of Bird Group of Companies under the Ministry of Steel. The Bird Group of Companies comprises 5 Companies viz.
 - (i) Orissa Mineral Development Company Ltd.
 - (ii) Bisra Stone Lime Company Limited
 - (iii) Karanpura Development Company Ltd.
 - (iv) Scott & Saxby Ltd.
 - (v) Eastern Investment Limited
 - (vi) Served as Independent Director on the Board of Director of NBCC, Bharat Dynamics Ltd and MSTC for 3 years.
 - (vii) Continuing independent director of FACOR for the last 10 years.

Areas of Expertise:

Project Management – Power, Mineral Exploration, Mining both underground and Opencast, Machine-tools, Sugar and Chemicals.

Other related Information:

- ❖ Life Fellow Member – Institution of Engineers (FIE) & Chartered Engineer
- ❖ Life Member – Indian Institute of Chemical Engineers
- ❖ Life Fellow Member – The Indian Institute of Metals
- ❖ Chairman, Indian Institute of Production Engineers – Vidharbha and M. P. Chapter
- ❖ Member Task Force on Agriculture, Fertilizer, Chemicals & Pharmaceuticals constituted by the Dept. of Public Enterprises, Govt. of India.
- ❖ Member of High Level Committee on formulating Code of Ethics for PSU's employees constituted by Dept. of Public Enterprises, Govt. of India



K K MEHROTRA

Flat No. 406, MECON Apartment
Plot No. C 58/10, Sector-62, Noida 201307, UP
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Mob +91-9868112514
E-mail: kishorekmehrotra@gmail.com

Academic Qualification: B.Tech & M. Tech. (Metallurgical Engineering) from Institute of Technology, B.HU. Varanasi, Post Graduate Diploma in Industrial Engineering from NITIE, Mumbai

Professional Profile: Superannuated as the Chairman-cum-Managing Director of MECON Limited (Mini Ratna), a schedule 'A' design, engineering & consultancy organization under Ministry of Steel in July 2013. Former Managing Director of Metallurgical & Engineering Consultants (Nigeria) Ltd., a joint venture company of MECON Limited & Delta Steel Plant / Ajaokuta Steel Plant, Nigeria. Had steered MECON for Rs 75,000 crores modernisation and expansion of 5 integrated steel plants of Steel Authority of India (SAIL) and 3.0 Mt/yr green field plant of M/s NMDC. Under his leadership many projects in oil & gas, power and infrastructure sector including the prestigious project of desalination plant of 100 MLD for drinking water at Nemmali, Tamil Nadu have been successfully commissioned.

Having 44 years of experience in the field of design, consultancy, technology evaluation, process selection and optimization in iron and steel, energy audit, marketing in the area of oil & gas and infrastructure, Project Management.

Post superannuation : Member of Panel of Judges for Prime Minister Trophy for best Integrated Steel Plant, Ministry of Steel, Member of Task Force for MOU for PSU, Member of various committee constituted by Ministry of Steel, GOI, Consultant to State Bank of India for Steel & Mining Projects, Independent External Monitor for Security , Printing & Minting Corporation of India under Ministry of Finance, Adviser/Consultant for Steel Projects for many organisations. Council member of Indian Institute of Metals & The Institution of Engineers (India)



A C R DAS

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**Graduate in Metallurgical Engineering from Indian Institute of Technology, Kanpur
PG Diploma in Management (PGDIM): IGNOU, New Delhi ,PG Diploma in
Financial Management (PGDFM): IGNOU, New Delhi.**

Shri Das had over 35 years experience in Steel Industry and Government of India, having deep knowledge and understanding of iron and steel industry. **Worked as Technical Authority in the Ministry of Steel** rendering technical advice to all Ministries/ Government Departments on iron & steel matters. **Held high positions in Government** about 6 years at Sr. Director level (Industrial Adviser) heading the Technical Wing of Ministry of Steel, 4 Years at Director level (Addl. Industrial Adviser) & 2 years at Dy Secretary Level (Jt Industrial Adviser).

Worked at Usha Martin Industries, Ranchi, Rourkela Steel Plant & Bureau of Indian Standard from 1979 to 1982

***Presently, working as an Independent Consultant in Iron & Steel Sector** particularly, in the area of Energy and Environment related issues.*

*Worked as a **Consultant/Subject Expert/Reviewer** in **The Energy & Resource Institute (TERI)**.*

*Working as a **part-time consultant /subject expert** of **XYNTEO, India/Norway** to help them in their endeavor towards greening the Indian Steel Sector.*



N. K. KAKKAR

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NOIDA -201 307, U.P

Membership No. LM02 12945

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Email: nirmalkakkar@gmail.com

Graduate in Metallurgical Engineering from University of Roorkee (now IIT Roorkee) in 1971, Post graduate Diploma in Business management in 1976. Diploma in Project Management in 1986

Worked in SAIL for 33 years having experience in Design development, Preparation of Feasibility Reports, Basic Engineering, Tender evaluation, Project Management, Project monitoring, Erection and commissioning of steel plant based projects.

Worked in SomaniKuttner (India) Pvt Ltd., New Delhi for 11years & handled projects e.g Supply, erection and commissioning of Complete Waste heat recovery system for JSPL, ISP (SAIL) , RSP-SAIL, Execution of Thyssen Bottom Metallurgy (TBM) package for combined blowing for Visag Steel plant & Supply, erection and commissioning, Project management for Hot Metal Desulphurisation project at ISP/ SAIL, Burnpur

Marketing of technology packages from Kuttner Germany such as Coal Dust Injection, Combined Blowing, Hot metal desulphurisation system, Waste Heat recovery system, Oxy Cupola shaft furnace etc. for Indian steel Industry.



P. N. SHALI

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G B Nagar (UP)

LM02 01486

Mob: 9810708510, 9958385332

Te1 No. 0120 3672947

E-mail :pnshali@gmail.com

prannathshali425@gmail.com

Profession: Industrial and Mineral Development

Management Consultant

Academic and Professional Qualifications:

B.Sc. (Science)

MA Development Economics (UK)

B.Sc. Metallurgical Engineering (Punjab University)

MBA, Faculty of Management Studies, Delhi University



DEEPAK JAIN

Deputy Director General (West)
Bureau of India Standard
No. A-406, Purvasha Apartments,
Anand Lok Society
Mayur Vihar, Phase-I, Delhi 110 091
Membership No. LM02 15084
Mob: 9868640986 (Whatsapp), 8368622619
Email: deepakjain@bis.org.in

Name	DEEPAK JAIN
Designation	Deputy Director General (West) Bureau of Indian Standards
Educational Qualifications	B.E. (Metallurgical Engineering) from Punjab Engineering College, Chandigarh (1983)
Experience	<p>Around 38 years of experience in Standardization, Conformity Assessment, Quality Assurance of various engineering products etc.</p> <p>Joined Bureau of Indian Standards (BIS) in 1988. Before joining BIS, worked for 5 years in Quality Assurance of a reputed automobile company.</p> <p>In BIS, worked for about 33 years in Conformity Assessment, Standardization, Standards Policy, Planning and Promotion activities. In between opted for deputation in Central Govt. as Assistant Regional Development Commissioner (Iron & Steel) during 1991-1995.</p>

	<p>As Member Secretary of Technical Committees, dealt with Standardization in the field of Steel, copper, aluminium, ores and raw materials, mechanical testing of metals etc. While dealing with steel products, worked closely with Ministry of Steel for bringing steel Quality Control Orders [QCO].</p> <p>Handled product certification activities at Jaipur, Delhi, Chandigarh and evaluated quality of products. As Head of the branch office, monitored and administered certification activities of states of Haryana, Punjab, J & K and Chandigarh.</p> <p>As Deputy Director General (W) looking after the conformity assessment activities [which includes product certification, management system certification and hallmarking activities] in respect of states of Gujarat, Maharashtra, Dadra Nagar Haveli and Daman & Diu.</p> <p>Represented BIS in many National and International Forum.</p> <p>Published number of technical papers in the journals of repute.</p>
<p>Contact Details</p>	<p>Bureau of Indian Standards Western Regional Office [WRO] Manakalaya, E-9, Road No.8, MIDC Andheri (East), Mumbai-400093</p> <p>Telephone: 022-28218093 Email: ddgw@bis.gov.in</p>



GUR IQBAL SINGH CHAUHAN

562, Green Heavens, SAIL CGHS Ltd.

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Membership No. FIM02 00668

Tel: Mob: 9717302437 (Whatsapp), M 7048993116

Email: gisc.delhi@gmail.com

Date of Birth	09 Oct.1946
Educational Qualifications	<ul style="list-style-type: none">• M.B.A. (Human Resources Management); M.Sc. (Engg.) Mechanical; B.Sc. (Engg.) Mechanical
Professional Qualifications	<ul style="list-style-type: none">• <i>Certified Lead Assessor</i> for assessment of <i>Quality Assurance Systems</i> as per ISO 9001 standards
Professional Experience	<ul style="list-style-type: none">• <i>DSSI N.Delhi & Independent Consultancy Activities</i><ul style="list-style-type: none">➤ Identification, evaluation and utilization of metallurgical coals for their optimum usage along with existing coal components, in Coking Plants; Evaluation of Recovery & Non-recovery Coke Ovens for Coal Carbonization; Raw materials and Energy Optimization studies in Metallurgical Plants; Assessment and evaluation of technological processes related to steel industry;etc.• <i>UNDP – GEF Project</i><ul style="list-style-type: none">➤ Association with the Project Team for ‘<i>Removal of Barriers to Energy Efficiency Improvement in the Steel Re-rolling Mills (SRRM) sector</i>’

- ***Steel Authority of India Ltd.*** (1967-2006)
- ***R & D Centre for Iron & Steel*** - Extensive technological & managerial responsibilities in R&D activities related to Coal & Coke; Raw Materials & Energy Optimization; Technology Dissemination & Total Quality Management; Human Resource Management, Direct Reduction & Emerging Technologies and Project Development & Engineering. Superannuated as the CEO of RDCIS, SAIL
- ***Durgapur Steel Plant*** - Independent responsibilities for Maintenance activities; planning, design & introduction of modifications for enhancing productivity at shop floor in Coke Ovens & Coal Chemicals Units at Durgapur Steel Plant

Technological Expertise Areas

- ***Coal & Coke Management***
- ***Raw Materials & Energy Optimization***
- ***Modernization/Upgradation Schemes of Steel Plants***
- ***Technology Dissemination Activities***
- ***Total Quality & QMS for ISO 9001***
- ***Energy Optimization Studies in Secondary Steel Sector Rolling Mills***

Professional Associations

- ***Indian Institute of Metals***– Life Fellow
- ***Institution of Engineers (India)***– Life Fellow
- ***Computer Society of India***– Life Senior Member



MANORANJAN RAM

Vice President – Sales and Marketing

SMS India Pvt Ltd

286 Udyog Vihar, Phase – II, Gurugram - 122 016

Membership No. FIM02 43490

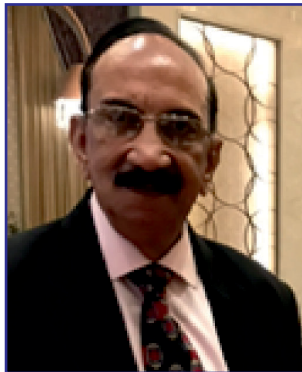
Tel. Direct : + 91 (0) 124 / 4523340 ; Tel. Board : + 91 (0) 124 / 435 1500

Mobile : + 91 (0) 9999303008 ; E-mail: manoranjan.ram@sms-group.com

- Multifaceted management experience of **28** years in Steel Industry.
- **Worked 15 years in Rourkela Steel Plant (RSP), SAIL**; out of which 11 years in Shop Floor and 4 years in the Managing Director’s Secretariat.
- Worked as a lead member of the turnaround strategy team of SAIL along with McKinsey team in 2001. Both physical and financial turnaround achieved in RSP, SAIL through various change management initiatives.
- **Worked around 5 years in ArcelorMittal Group**; associated with the India leadership team for setting up Greenfield Steel Projects and executed multiple assignments on Merger & Acquisition opportunities in the ArcelorMittal Group; lived and worked globally. Deputed to ArcelorMittal Jubail, Saudi Arabia for a year for Commissioning of AMJ seamless tube plant.
- **Since last 8 years, working in Paul Wurth India, SMS group** as Head of Technology Marketing and Commercial Sales in INDIA.
- **Elevated to the position of Vice President – Sales and Marketing, SMS group** on April 01, 2021.
- **Academic Qualification:** B. Tech (Hons.) in Electrical Engineering; and PGDM from Xavier Institute of Management, Bhubaneswar.

Primarily, expertise and experience include the following:

- Corporate Strategy
 - Business restructuring and turnaround
 - Techno-Commercial evaluations for CAPEX projects
 - Techno-economic analysis of M&A opportunities
 - Engineering and Project Management
 - Feasibility studies and Project Appraisal
 - Sales and Marketing
 - Steel Plant Operations and Management
-



P L TALWAR

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Email: pltind@yahoo.co.in

I graduated in Metallurgy from Punjab Engg. College, Chandigarh in the year 1967.

I worked at Alloy Steels Plant, SAIL, Durgapur from 1967 to 2006 in operation and marketing areas.

I retired as Head Of Works in April, 2006.

I joined Modern Steels Ltd. in May, 2006 and I was Director of Modern Steels for 8 years.

I am still attached to Modern Steels as Advisor.



DR. MUKESH KUMAR

Director

Steel Research & Technology Mission of India(SRTMI)

(Under the Aegis of Ministry of Steel)

5th Floor, Ispat Bhawan, SAIL, Lodhi Road , New Delhi-110003

Membership No. LM10 56938

M: + 91 9650080849/ 9584032329

E-mail: drmukeshkumar@gmail.com

Educational

- B E Metallurgical Engineering from Punjab Engineering College, Chandigarh in 1980 (Gold Medallist)
- PhD in Mechanical Engineering from IIT Delhi in 1989 on Welding of Aluminium Alloys

Career Summary

1. Worked with Engineers India Limited from 1980-2006 in Metallurgy, Oil and Gas, Pipeline, Offshore, Project Management & Business Development and was associated with the following.
 - Development of Indigenous Technology for the production of Titanium Sponge based on Kroll's process.
 - As Process / Project Manager, associated with numbers of projects in Metallurgy like. Alumina Refinery of NALCO, Rampura Agucha Lead –Zinc Complex of HZL, Bauxite Mine and Alumina Refinery Expansion of NALCO, etc
 - As project manager, guided numbers of Feasibility Reports and Detailed Project Reports for various mining and metallurgical projects including Uranium projects.

- Lead numbers of projects in Offshore Oil & Gas in India as well abroad in Doha, Qatar for wellhead platforms, oil processing complexes, gas platforms and subsea pipelines
- Represented EIL in Middle East for about 3 years as Business Head cum Country Manager.
- Established Engineering and Design office of EIL Asia Pacific in Australia and worked as COO for about 4 years. Involved in setting up Liquid Ammonia Project and other Metallurgical projects.
- Awarded Best Employee Millennium Award in 2000.

2. Worked with Vedanta Group from 2006 to January 2016 in various capacities as follows:

- 8 years as President and COO of Vedanta Aluminium, Lanjigarh Operation and was responsible for overall business covering Operation.
- Worked with numbers of Scientific Institutions/ Laboratory for various Metallurgical research projects. Red Mud Powder, Environmental friendly Geo-polymers technology from Fly Ash besides formulating Zero discharge and Zero waste road map for Aluminium industry including future Technology Road Map for Ministry of Mines.
- About 2 years, as Group Head–Technology & Innovation & guided Technology & Innovation teams.

3. Worked as CEO of Scale Ban Pvt Limited from 2016-8 for patenting and commercialization of water conservation technology in Power Plant, Distilleries, Paper, Cement, and Metallurgy for non-chemical based Scale free operation at higher COC to reduce water consumption by 30-40%. During this period also worked as an advisor for Mishra Dhatu Nigam Ltd for projects like Aluminium Alloy Plant, Tungsten Powder / Tungsten Carbide, Carbon Fibre etc, Consultant to KPMG India for Aluminium Projects and Advisor to Hindustan Copper Limited for their Copper Expansion Projects.

4. Working as Director- Steel Research and Technology Mission of India since 2018, an autonomous body under the Ministry of Steel and responsible for spearheading Collaborative research in Iron Ore Beneficiation, Iron and Steel Technologies, Circular Economy and Resource Efficiency, GHG reduction initiatives and promoting Carbon Capture Utilization and Storage projects in private and public companies.

5. **Papers and Awards**

Presented several papers and delivered key note addresses on environment sustainability, new technologies, fly ash utilization, need for technology and innovation driven business etc in National and International Conferences.

Gold Medallist and University Medal holder for Standing First in the Metallurgy, Awarded with Best Employee in Engineers India Limited, Conferred International Technological Excellence Award in 19th International Non-Ferrous Conference 2015, Distinguished Alumnus Award for Excellence in Career by PEC (Deemed to be University), Chandigarh 2018, Lifetime Achievement Award by IME and several other awards / recognition.

SUNIL KUMAR GARG

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Professor - Mechanical Engineering at AKGEC, APJAKTU (U.P.)

Professor - Operation Management at DIAS, GGSIPU (Delhi)

Life Member – Indian Institute of Metals (IIM)

Life Member – All India Management Association (AIMA)

Advisor - Visible Infotech Pvt. Ltd., New Delhi - www.weighbridge-automation.com

Advisor - VirtuBox Infotech Pvt. Ltd., Noida - www.virtubox.io

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N. VIJAYAN

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Office Address

DIRECTOR
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25771257/4387

Started career as Engineering Supervisor with M/s. VVK engineers, Thane, Maharashtra, and then Joined with M/s. Allied consulting engineers, Mumbai, as Junior Engineer. Worked with M/s. Simplicity Engineers Pvt Ltd. from 1976 to 1988 as Design Manager. Started Business since 1988, M/s. TECHNOTHERMA (INDIA) Pvt. Ltd, manufacturing all types of electrically heated/fuel fired heat treatment furnaces and its allied equipment and supplying to various industries India and abroad; mainly in Automobile industries, Wire industries, Tube industries, Cold rolling mills, food industries, Ordnance factories etc... Supplied and commissioned furnaces to many countries like, Turkey, Ukraine, France, Egypt, Qatar, Indonesia, Pakistan, Tanzania, Kenya, Ethiopia, Uganda, Senegal, Zambia, Mozambique, Nigeria, Vietnam, UAE, Saudi Arabia, and Nepal. We, indigenously developed many furnaces. Recently we designed, manufactured, and successfully commissioned a new generation, continuous line furnace for Black annealing the Strip, in Nigeria. First in India and second in the world after China.



RAJESH KUMAR VIJAYAVERGIA

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Rajesh Kumar Vijayavergia is presently *Consultant* with **Steel Research & Technology Mission of India** at New Delhi. Worked in Steel Authority of India Ltd. for 38 years in various capacity. Worked on various R&D assignments in steel making, stainless steel, coal & coke and energy areas, till April 2010. Joined as Executive Director (Operations) at Corporate Office of SAIL at New Delhi in April 2010. After superannuation he was Advisor (SAIL), at R&D Centre for Iron & Steel, SAIL, Ranchi, and then Advisor (R&D), at Research & Development Centre, NMDC Limited, Hyderabad.

He is B. E. (Honours) in Metallurgical Engineering (1974) *from* Malaviya Regional Engineering College (now Malviya National Institute of Technology), Jaipur.

He was a Member of the Board of NTPC-SAIL Power Company Pvt. Ltd. (NSPCL) from May 2010 to September 2013; and Chairman, SAIL Jagdishpur Power Plant Limited from May 2011 to Oct. 2013. He has been National Council Member of **The Indian Institute of Metals** during 2010-2016. He is Life Member of **Computer Society of India** and **Indian Institute of Mineral Engineers**.

He is recipient of Dr. M. Visveswaraya Medal (for 1989-90 and 2003), and SAIL Gold Medal (1991) awarded by The Institution of Engineers (India)

He has published 13 papers in various journals and 12 in seminar/conference proceedings. He made 35 presentations in various seminars/conferences etc. He was in the Editorial Boards of about 12 conference/seminar proceedings, and member of Editorial Board of Steel India.



DR. RAMEN DATTA

Ex-GM, RDCIS

Steel Authority of India Limited

B-344, First Floor, C R Park

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Membership No. LM02 14487

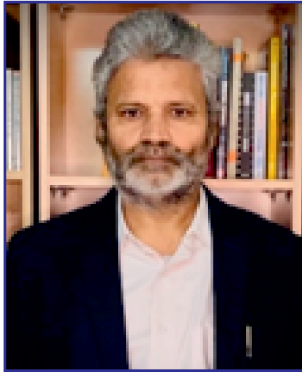
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Dr Ramen Datta graduated from B. E. College, Shibpore in 1978 and obtained his Ph.D. in Material Science from IIT Delhi in 1982. He joined RDCIS, SAIL, Ranchi in 1982 and contributed to the development of a wide array of special steels at the different units of SAIL. He worked in the Application Engineering Centre before taking up charge of the newly formed Product Business Group and subsequently Product Development Group of RDCIS. At the later part of his career, he served as Incharge of RDCIS Bokaro Centre, RDCIS Rourkela Centre before retiring from service in 2016 as General Manager I/c (Steel and Refractory).

Dr Datta is presently serving as a Consultant to Steel Research and Technology Mission of India (SRTMI). He is Member of the Research Council of RINL Vizag, Member of Project Review Committee of MOS, GOI and Member of Technical Committee of Steel Quality Control Order(QCO). He is a Life Member of Indian Institute of Metals(IIM) and Member of Editorial Board of Steel Tech.

Dr Datta has more than 100 publications in national and international journals to his credit. He has 22 patents in the area of product development, welding and process technology. He is recipient of the prestigious “Metallurgist of the Year” Award conferred by MOS, GOI, O. P. Jindal Gold Medal by IIM, Metallurgy and Material Science Gold Medal, SAIL Gold Medal and Visvesvaraya Gold Medal by Institution of Engineers.



DR. RAJESH R. PRASAD

Professor

Department of Materials Science and Engineering

Indian Institute of Technology - Delhi

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B.Tech. (1984, BHU), M.E. (1986, IISc), Ph.D. (1991, Cambridge)

Awards and Prizes

2014: Erasmus Visiting Professor, University of Trento, Italy

2013: Distinguished Alumnus Award, Department of Metallurgical Engineering, IIT-BHU

2012: Teaching Excellence Award of IIT-Delhi

2002: Golden Jubilee Trust Fellowship, Banaras Hindu University

1987: Overseas Research Scholarship (ORS) for Ph.D. at Cambridge University, 1987-1990.

1986: A.A. Krishnan Gold Medal, for Best M.E. Thesis, Indian Institute of Science, Bangalore.

Fields of Interest

Physical metallurgy, Mechanical Behaviour, Phase Transformations

Teaching channel at NPTEL:

Introduction to Materials Science and Engineering:

<https://www.youtube.com/channel/UCRFAeCBIRZrY8YcuLomFU1g>

Teaching at IITD since 1995.



NEERAJ NAUTIYAL

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Presently working with JSWBPSL as Sr General Manager Production (CRM: CRCA & COATING FINISHING Division)

Having 24 years of Experience in Project, Production &, Quality of Steel.

Worked in companies : Tata Steel (Earlier BSL), Vardhman Industries Ltd Ludhiana (Tinning Line)

Educational Qualification: B.E (Industrial Production) from J.N.N.C.E, Shimoga in 1995

M.E (Industrial Metallurgy) from IIT Roorkee, 1999

Achievements :

1. Developed Austenitic Valve steel SS 316 L, Bohler Grade First Time in the Country for Star Wire (I) Ltd, under the Guidance of Late Prof. Dr A.K. Patwardhan, IIT Roorkee .
2. Till now handled more than 9 Green field Projects for Steel, including 3 overseas Projects.
3. Developed Indigenous Equipments like 6Hi Cold Rolling Mill, DCR Mill, Colour Coated line, Galvalume Line and Galvanizing Line, Profiling Machines at economical cost.



DR. KULDEEP KUMAR KHANNA

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Paschim Vihar

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Qualification:

BSc (Mech. Engg); BE(Industrial Engg); Gold Medalist; LLB; MBA; PhD

Experience:

- Presently Associated with KPMG India as Senior Adviser (Metals & Minerals)
- Former Director (Technical) & Director (Commercial) in SAIL; superannuated in September 2007

Authored:

- Book on Benchmarking published by Bloomsbury India
- Book on Project Management published by Bloomsbury India



PARIJAT KUMAR CHATTERJEE

Flat E-603, Rajasthan CGHS,
Plot-36, Sector-4, Dwarka,
New Delhi 110 078

Membership No. FIIM 06167

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Degree in Metallurgical Engineering from B.E. College Sibpur (WB)

Diploma in Management from Berkshire, England.

Fellow of United Nation Organisation in Germany & Specialised in Quality Control in Steel Plant.

Introduced Non-Destructive Testing facilities in Rourkela Steel Plant of SAIL

Represented Joint Plant Committee in the Ministry of Steel, Govt. of India

Administrative training in Indian Institute of Public Administration, New Delhi

Secretary Regional Steel Advisory Committee (North) constituted by Ministry of Steel, Govt. of India

Member, Technical Committee constituted by Ministry of Steel, Govt. of India to assess capacities of Steel Re-rolling Mills

Executive Director, Sponge Iron Manufacturers Association (SIMA)



DR. RAKESH KULSHRESHTHA

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A Gold Medalist in Metallurgical Engineering, Rakesh Kulshreshtha acquired additional qualifications in Industrial Engineering, Business Management and a Black Belt in Six Sigma. He worked in Steel Authority of India Limited in diverse functions including Operations, Logistics and Supply Chain, Production Planning & Control, Marketing, International Trade and Business Excellence. He superannuated from SAIL in October, 2012 where he was heading Corporate Planning as Executive Director (In charge). He also served on Board of five joint venture and subsidiary companies of SAIL.

Post retirement, he worked as Advisor to Chairman, Steel Authority of India limited, Advisor to IIDC Ltd (a group company of IL&FS) with responsibility for business development in Africa, Mangalore SEZ and Smart Cities. He was also associated with Ernst & Yong for skill development in Iron and Steel Sector under the auspices of National Skill Development Corporation.

He earned his PhD in Management in 2017 on the subject of ‘PPPs in Urban Metro Systems’. He has also been a visiting faculty on TQM and Business Strategy. He has been an assessor for assessment of Business Excellence for companies in India and Abroad. He has successfully completed consultancy assignments in public and private sector organizations. He has co-authored a book on ‘Financial Management’ for B.Com BBA and MBA students. His hobbies include reading, photography and travel.



RAMESH KUMAR NARANG

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Retired professional from Aluminium industry.

B.Tech (Metallurgy) from Punjab Engineering College, Chandigarh and MBA from IGNOU, New Delhi. 35+ years of experience in Aluminium Industry and exposure across various domains of Operations, Production Planning and Control, Sales & Marketing, Corporate Strategy, Corporate Affairs, Government Affairs, Policy Advocacy and Stakeholders Management.

Retired in January 2020 from Bharat Aluminium Company Ltd. (BALCO), New Delhi, a Vedanta group company, as Head Corporate Affairs.



DR. SANDIP SHARMA, Ph.D.

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EDUCATION

Ph.D. (Management)

From University of Petroleum & Energy Studies, Dehradun In 2012 with a topic “A Contemporary Study on Governance and Policies of Oil and Gas Sector in India” and at present pursuing Post Doctoral Programme in the same domain.

MBA (Oil & Gas)

From University of Petroleum & Energy Studies, Dehradun In 2008
Bachelor of Engineering (Mechanical) from Bangalore University

EXPERIENCE

Over Thirty Three (33) Years of extensive and varied experience in Oil & Gas Sector

1982 to 1990:

With **Bebcock & Willcox, Canada for Boiler & CanTherm** – Canadian Thermal for Power Projects in India.

1990 to 2004:

With **Jindal SAW Limited** for DSAW API pipes, 3LPE, FBE, CTE, CWC coating systems and Long Radius hot pulled Bends.

2004 to 2012:

With **Kalpataru Power Transmission Limited** (Pipeline Division); Started the Pipeline Construction Division as a new business for Kalpataru Group and completed Cross Country Pipeline Construction Projects by way of consortium formation, strategic alliances and execution with contract closure.

2012 Onwards: Independent Consultant in the field of Oil & Gas, API Steel & Environment.

PUBLICATIONS:

- Solid State Natural Gas – 2000 (Published in Indian Express)
- Pipeline of Politics – 2001
- Complicated Pipeline Route Challenges, Pipeline & Gas Journal, Volume: 63, September 2009.

AFFILIATION & GENERAL INFORMATION

- Director on the Board of IPLOCA for the years 2009, 2010, 2012 & 2013.
- Director on the Board of PSL Limited
- Director on the Board of Jindal Seamless Tube Ltd.
- Director on the Board of Sun Oilfield Supplies & Services Pvt. Ltd.
- Lifetime Member of The Indian Institute of Welding, Kolkata
- Lifetime Member of The Indian Institute of Metals, Kolkata
- Lifetime Member of Institute for Steel Development & Growth, Kolkata
- Member of The Foreign Correspondents' Club of South Asia
- Initiatives with results in the field of Training, Development of various grades of steel for Oil & Gas Sector & Environment
- Pursuing wildlife Photography with focus on Royal Bengal Tigers.
- Technical Consultant of the Committee appointed by Forest Department on the monitoring of aging tigers and young cubs in the wild.
- Winner of India **Excellence Award 2015** as **Environmentalist**

SAMIR KUMAR MOZUMDAR

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skmozumdar@yahoo.com

Joined SAIL, Rourkela Steel Plant in the year 1965 ,after my engineering graduation from RIT Jamshedpur presently NIT Jamshedpur and served there till my retirement on 31st July 2002 as General Manager Incharge Steel ,being responsible for the proper functioning of a host of departments in addition to both the Steel melting shops . I was fully associated with the expansion of steel making facility of RSP from concept to commissioning of SMS II and finally took over its operations of CONTINUOUS CASTING SHOP initially and later on as HOD. After my retirement I settled in Delhi and am associated with a reputed Engineering Consulting company for the last sixteen years.



K R KRISHNAKUMAR

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Shri KR Krishnakumar is a Mechanical Engineer, joined Rourkela Steel Plant, Rourkela, Orissa in 1982. He has vast experience in Commissioning, Operation and Maintenance of 120 MW Captive Thermal Power Plant. This power plant is running at a PLF of more than 90% consistently, in JV Mode with NTPC as the managing and operating partner.

He is one of the pioneers in implementing Total Quality Management (TQM) Principles, Total Cost of Ownership (TCO) in Material Management Area and ISO 9000 Quality Management Systems in SAIL. He is also a certified ISO 9000 Lead Auditor for ISO 9000 QMS Systems and has conducted more than 100 QMS Audits of Steel Plants/ Units of SAIL. Later, at the Corporate Office of SAIL, Delhi he has worked in various functions such as Business Development, SAIL Restructuring Plan, Divestment of Power Plants into JVs, and Project Management. He has retired as CGM (Projects) in March 2019 after gaining valuable experience in Financial and Technical Appraisal of large & complex steel plant Projects including the embedded captive power plants, Commissioning and successful completion of the Modernization and Expansion Plans of Bhilai, Bokaro and Rourkela Steel Plants.

He is a Chartered Engineer and Professional Valuer of Institution of Engineers of India. He is an Executive Committee Member of Indian Institute of Metals, Delhi Chapter. He has vast networking experience with Board Of Directors, Government Departments and State Governments. His overseas exposure includes Technical and Management Training in countries such as Poland, USA, London, Paris, Madrid, Kuwait and Oman. My hobbies include reading, research on technical developments and management strategies and listening to Music.

Currently, he is a practicing Consultant for Steel, Power and Water Resources.



VIJAY KUMAR GUPTA

FIEI, FIET, FIETE, C Eng.

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E mail- vijay_gupta_m@yahoo.com

Educational/Professional Qualification

B. Sc. (P.C.M), Graduate AMIE (Electrical Engg.)

Graduate AMIETE (Electronics & Telecommunication & Computer Engg.)

M.Sc. (D.M.), Chartered Engineer IET; London

Chartered Engineer (IEI), Chartered Engineer (IETE)

Retired as Director (Engineering) SAG, in 2001, after serving AI India Radio & Doordarshan, Ministry of I & B for more than 37 years at different stations in various capacities. Presently rendering service as a Consulting & Chartered Engineer in various fields.

AWARDS / PRIZES:

1. **NATIONAL AWARD received** on 4th August 1975 from the Hon'ble President of India organized by NRDC, New Delhi.
2. **Received First & Third Prizes on technical papers "RELAY OF COMMENTARIES & PROGRAMME" and "ROAD ILLUMINATION" respectively.**
3. Received an appreciation of valuable services to the Special Organizing Committee. IX Asian Games, held at Delhi during 1982.
4. Won first Prize of the Indian Culture Exhibit at the Festival Of Nations at Minnesota, USA during May, 2009.



SHIVRAJ SINGH KASANA

Executive Vice President

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Qualification: B.E. (Metallurgy) from University of Roorkee

Executive Vice President heading DSIR recognized and registered R&D center, and new products and process development at Star Wire (India) Ltd. Ballabgarh Haryana. Served steel industries for more than four decades and presently associated with Star Wire India Limited,

Under my leadership many critical materials like steel alloys and super alloys, import substitutes have been developed in the company through in-house industrial research and development. Special steel alloys and super alloy find application in manufacturing of Engine Valves and critical components for nuclear and thermal power plants, Aerospace and Defense. Some recently developed materials include NiReVa-3015 (*equivalent to NCF-3015*) and 25Cr-12Ni used exhaust valves of automotive engines, Incoloy 800, D9, used for making coolant tubes of nuclear reactors.



D M AFZAL KHAN

Professor (Retd.)

Department of Metallurgical and Materials Engineering

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Jammu and Kashmir, India.

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Derabassi, Mohali-140 507 (Punjab)

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QUALIFICATIONS:

DEGREE	YEAR	INSTITUTE
B.SC (Chemistry)	1974	University of Madras
B.Sc.(Engg.)-Metallurgical Engineering	1979	R I T Jamshedpur
M.Tech (Metallurgical Engineering)	1981	IIT Kanpur (dec.)
Ph.D (Metallurgical Engineering)	1994	IIT Kharagpur

Teaching EXPERIENCE:

35 years of teaching experience. (Initially(Feb 1982) PEC Chandigarh, later joined, NIT Srinagar (REC) in 1986).

Retired as Professor (Feb 2019) from MMED, NIT, Hazaratbal Srinagar

Guided two Research Scholars

Area Of Specialization:

- Process Metallurgy, Metal foam Composite by Research & Teaching
- Materials Engineering by Teaching

Publications:

- Various Publications in National and International Journals on Thermal Analysis of Calcium Carbonates Decomposition and Reduction-Smelting of Chromites on Crude Stainless Steel Making.
- Visited **AMG–GK Company, Hauzenburg, Germany** under invitation for Fuel Cell discussion in June 2019.
- Visited **Mines Paris Tech.** laboratory in **Paris** in March 2019 under invitation.
- Visited California Academy of Sciences, San Francisco USA in March 2019.
- Attended **JEC World 2019** Composite exhibition in **Paris** held in March 2019
- Chaired a session and presented a research paper at THERMEC 2018 in Paris on 8-13th July 2018.

DR. ARVIND BHARTI

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FIE

B E (1980 IIT ROORKEE then UNIVERSITY;

M TECH 1982 IIT KANPUR;

Ph D 1994 IIT Roorkee

PD FELOW TECH. UNIVERSITAT OF CLAUSTHAL, GERMANY 1992 & 1999

DRDO NOV 1992 (through UPSC) to Dec 2020)

Retired as Adl. DG DRDO (Tech Management).

RAKSHA VISHESHAGYA, GOVT OF UP AUG 2018 TO FEB 2019.



SAMIRAN DAS

Engineers India Ltd
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Present Affiliation	Engineers India Limited
Designation	Senior Manager
Academic Qualification	B. Tech. (Metallurgical Engg.) /Jadavpur University M. Tech (Corrosion Control)/ Indian Institute of Technology, Kanpur
Areas of Specialization	Pipeline Integrity, Cathodic Protection and Corrosion Control
Area of expertise	More than 13 years experience in the field of corrosion, corrosion control and selection of materials, supervising and co-coordinating pipeline inspection surveys and Cathodic Protection and residual life assessment (RLA) / integrity assessment of ageing pipelines and equipment.



DEEPAK BHATNAGAR

Secretary General

Pellet Manufacturers' Association of India (PMAI)
16/2 Harmony Homes, Sector 57, Sushant Lok Phase III,
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Membership No. OMO149278

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Mr. Deepak Bhatnagar graduated in Metallurgical Engineering (1971) from Indian Institute of Technology, Roorkee. Later, he also obtained Postgraduate Degrees in Industrial Engineering and Business Management. He was a member of the expert evaluation teams for new R&D projects in European Union, DST and Steel Ministry (SDF).

His 48+ years professional experience covers Steel Industry in SAIL (shop floor in Bhilai steel, R&D centre and the Corporate Office), Department of Science & Technology (DST, TIFAC) and teaching (at SUNY- Buffalo, IIFT and Glocal University) and presently Heading an Industry Association related to Steel.

He has been a Professor and Head of CITT (2009-2013) at Indian Institute of Foreign Trade, which is a Deemed University under Ministry of Commerce. He is also teaching courses on Business Communications and Innovation Management to MBA students. While at IIFT, he successfully completed Projects on Technology and Trade, sponsored by European Commission , DST, Ministry of Commerce etc .He was the member-secretary of the Sectoral Innovation council on Trade under the National Innovation Council .

Prior to joining IIFT , Mr. Deepak Bhatnagar was an Adviser & Scientist ‘G’ with Technology Information, Forecasting & Assessment Council (TIFAC), Department of Science & Technology (DST). During his tenure at TIFAC (1990 TO 2009), he has

handled several programs related to Technology Development in the area of Metals and Materials, International Cooperation and Forecasting/Assessment studies. He was the nodal scientist to prepare the “Technology Vision 2020 document on Materials and Processing” under the guidance of Dr APJ Abdul Kalam, the then, Chairman TIFAC. He played a leading role in Mission REACH programme which is one of the major follow-up activities of Technology Vision 2020 in the field of Higher Technical Education. He is also an invited expert on emerging steel technologies, for evaluating and reviewing R&D projects funded by Ministry of Steel.

He started his career as a Management Trainee in **Steel Authority of India Ltd.** at Bhilai Steel Plant where he had a long experience at the shop floor (1972 to 1984). He was later transferred to the R&D Centre of SAIL at Ranchi where he was heading the Planning and Techno-Economics group (1984 to 1990). At the Corporate office in New Delhi, he was a member of the team which prepared the first Corporate Plan of SAIL. He has taken 6-months advanced training in Steel plants in Russia (former, Soviet Union).

Mr. Bhatnagar is an Adjunct Faculty in the area of Innovation & Technology Management at several institutions in India. He was invited by the State University of New York (SUNY), Buffalo to teach at their School of Management during spring 2008.

He has strong inter-personal communication skills. His prowess in public speaking and knowledge on national & global affairs helped him to win the coveted “Group Study Exchange” award of Rotary International in 1974 to give talks to Rotarians in USA. His hobbies include creative writing, theatre and talking to school children on the wonders of science.

Shri Deepak Bhatnagar graduated in Metallurgical engineering from IIT, Roorkee and later acquired degrees in Business Management and Industrial Engineering.

His professional experience of 43 years includes Shop floor working at Bhilai steel plant followed by R&D centre and Corporate Planning at SAIL. Later he joined TIFAC in the Department of Science & Technology, Govt of India. He had the privilege of working as a team member in the ‘**Technology Vision 2020**’ study on Materials & Processing with Dr APJ Abdul Kalam, (former President of India), when he was Chairman TIFAC.

After superannuation from Govt ., Shri Bhatnagar joined as a Professor at ‘Indian Institute of Foreign Trade’ (IIFT) where he taught MBA students for four years. He also taught for a semester at State University of New York (SUNY), Buffalo, USA.

He has been a member of expert evaluation teams of Ministry of Steel for R&D proposals, European Union etc. and is an adjunct faculty at reputed MBA schools.



TONMOY KUMAR MITRA

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Membership No. OM01 37085

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Education: Graduate in Metallurgical engineering. P.G.D.B.M, B.Sc. chemistry, Certificate in quality control.

Experience: Nearly 37 years experience in Secondary Aluminium alloy foundry process for wrought aluminium alloy and cast aluminium alloy, Hot top DC casting, Extrusion process. Ingot casting.

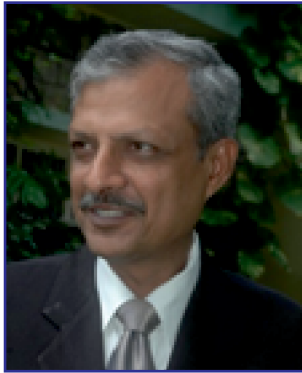
Melting practice of Aluminium scrap recycling and making specific wrought/Cast Aluminium alloy as per standard/customer requirement for extrusion/Cast Aluminium alloy Ingot. Zinc alloy ingot mfg.

Specialization in designing chemical and metallurgical parameters for achieving sound casting with desired mechanical and metallurgical properties.

Developed seamless EC Grade Aluminium and Aluminium alloy seamless tube manufacturing , cold drawing and annealing process to meet the specific requirement.

Accomplishments:- # Developed and implemented cold drawing for manufacturing seamless DHP Grade copper & Copper capillary tubes and bright annealing manufacturing process. and details quality testing for the same.

Implementation of Quality management system as per ISO 9001:2015 & IATF 16949 : 2016. Follow up system for ISO-14001:2015.



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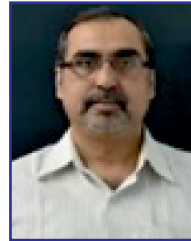
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Shaji George. K

He is working as Secretarial Assistant with the Chapter. He joined the Chapter in March 1998. All the secretarial jobs are undertaken by him. He has been working with sincerity and commitment since his joining the Chapter. Responsible for maintaining of files related to the Chapter. He renders immense assistance in collating various articles and news items for publication in the newsletter.

Mahesh Chand

He joined the Chapter in March 1993. He acts as a helping hand in the discharge of various duties associated with activities of the Chapter. Also takes care of maintenance of the office building.

Anuj Sharma

He joined the Chapter in August 2011. He is responsible to render audio-visual assistance in organizing technical programmes at our Auditorium. He also helps in secretarial works of the Chapter and maintenance of files.

Umakant Pandey

He joined our Chapter in 2007. He takes care of the security of the office. He is a man of strong commitment and dedication. He was given award for strong commitment of his duties on the eve of IIM Foundation Day on 24th February 2018.



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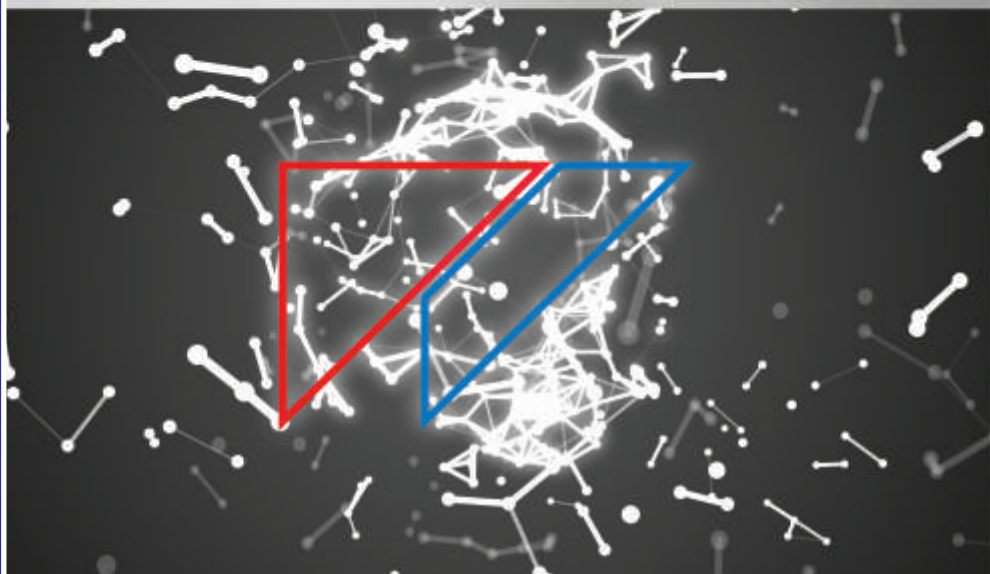
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