

Glorious 112 years - 2018

Spring - 2018



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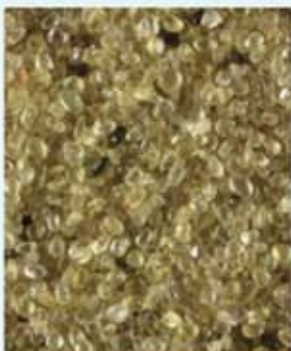
MGMII

NEWS JOURNAL

A QUARTERLY PUBLICATION

THE MINING, GEOLOGICAL AND METALLURGICAL INSTITUTE OF INDIA

Vol. 43, No. 4 : January – March 2018



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- India's first & only shock-tube having three layers.
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THE MINING, GEOLOGICAL AND METALLURGICAL INSTITUTE OF INDIA

GN-38/4, Sector V, Salt Lake, Kolkata - 700 091, Phone : 2357 3482 / 3987, Telefax : 2357 3482
e-mail : mgmsecretary@gmail.com, mgmihonysecretary@gmail.com

MGMI AWARDS AND MEDALS FOR OPEN TO ALL

Last date of receipt of nomination: 16th July, 2018

Nominations for the following Institute's Medals and Awards are invited from Concerned Persons in the **Proforma** containing details of the person proposed for nomination as under :

1. Name of the person proposed :
2. Date and place of birth of the person nominated :
3. Designation, address, phone number and email ID :
4. Educational qualification :
5. Professional experience :
6. Membership of professional bodies :
7. Details of outstanding works in Coal Mining, Environmental Mitigation, Geological Science, Indian Mineral Industry, Engineering Service, Coal Petrology, Mineral Beneficiation, etc. as applicable :
8. List of publications with names of Journals and dates of publication (If possible, send reprints) :
9. Title of paper of Coal Mining etc. as applicable published in MGMI

Transactions for which the award is proposed :

The nomination to be sent to the Honorary Secretary, **The Mining, Geological and Metallurgical Institute of India, GN 38/4 Sector V, Salt Lake City, Kolkata - 700 091** within the last date of receipt of nomination. The proposal to be given in 7 (seven) copies and 2 (two) copies of recent passport size photographs of the nominee. Self nomination is discouraged. Particulars of Sponsoring Members for the above awards :

1. Name of the proposer :
2. Designation, address, phone number and email ID :
3. Any special observation about the candidate :
4. Signature of the proposer :

Details of MGMI Awards and Medals are given below :

- 1) **Dewan Bahadur D.D. Thacker Coal Mining (Gold) Medal 2017 – 18 :**

**THE SEARCH COMMITTEE WILL
RECOMMEND THE NAME OF THE
CANDIDATE FOR THE MEDAL**

[Any person who has contributed a paper of excellence and originality on Coal Mining or on Technology of Science applied to some branch of Coal Mining to the Transactions of the Institute in conformity with by-laws relating to publication of papers by the Institute or who has done outstanding work in Coal Mining or related Science shall be eligible for the award.]

2) Dr. J. Coggin Brown Memorial (Gold) Medal 2017 – 18 for (i) Geological Sciences and (ii) Non-Coal Mining :

Any Person who has made outstanding contribution to (i) Geological Science and (ii) any branch of Non-Coal Mining are eligible for the above awards (i) and (ii) respectively.

3) Indranil Award for Metallurgy 2017- 18 :

Any Person who has made outstanding contribution in any branch of Metallurgy or Ferroalloys and presented a paper in this connection to the Institute during the year for which the award is proposed and which is read in an Ordinary General Meeting of the Institute or any person who has contributed an outstanding paper on the subjects and published in any Journal in the Country is eligible for the award.

4) John Dunn Medal 2017-18 :

Any person who has extended outstanding service to the Indian Mineral Industry (Administrative or Technical) shall be eligible for the above award.

5) Engineering Gold Medal 2017-18 :

Any person who has done outstanding work in Mining Science but with special reference to technical advances in Engineering Services, Installation, Layout, Design and Development of Machineries for Mining shall be eligible for the award.

**6) Sukumar Rakshit Award 2017-18 :
(A medal and cash award of
Rs. 1000/-)**

Any person who has made outstanding contribution in Stowing or Rock Mechanics or Mine support system in Coal Mine and submitted a paper in this connection to MGMI for publication or any person who has contributed an outstanding paper on any of the subjects mentioned above and published in any journal in the Country are eligible for the award.

7) Smt. Bala Tandon Award 2017-18 :

Any person who has made outstanding contribution for upgrading the quality of life in Mining Environment shall be eligible for the above award.

8) M.L. Rungta Award 2017-18 :

Any person who has rendered outstanding service in the cause of Small Mining in the Country shall be eligible for the above award.

9) Subrata Ghosh Coal Petrology Award 2017-18 :

(A cash award of Rs.1000/- and a Scroll of Honour)

Any person who has rendered outstanding work in the Science of Coal Petrology during the last five years including the current year for the award shall be eligible.

10) R.P. Bhatnagar Award 2017-18 :

(A medal and cash award of Rs. 5000/-)

Any person who has made an outstanding contribution in Mineral Beneficiation during the last five years including the current year shall be eligible for the award.

11) D.N. Thakur Award 2017-18 :

Any person may sponsor any recognized Scientist, Academician or Technologist for the above award in the prescribed proforma.

12) Lala Ramkishore Singhal Award 2017-18 :

Any person who has made an outstanding contribution on the field of Development & Conservation of Minerals & Environment in and around Metalliferous Mines (other than coal and oil) during the last five years including the current year shall be eligible for the award.

13) H.B. Ghose Memorial Award 2017-18 :

The award is given separately for Best Manager of one Underground and one Opencast Mine for their best safety performance based on "Severity Index". The detail calculation of the "Severity Index" may be obtained from MGMI, Headquarters, Kolkata.

14) Prof. S. K. Bose Memorial Award for excellence in Teaching in Mining Engineering 2017-18 :

Any Teacher of Mining Engineering or allied Engineering having long teaching experience (at least 20 years of service as teacher out of which 10 years in senior capacity (e.g. Opencast Mining, Mineral Processing, Rock Mechanics, Mine Environmental Engineering, Mine Surveying), in a reputed Engineering College namely e.g. IIT, ISM (Dhanbad), BHU, IIT (KGP), IIST (Shibpur), will be considered for the Award for his achievement of excellence in teaching of Mining Engineering based on the following criteria :

Excellence in Teaching ;

1. Kind and amiable disposition;
2. Unimpeachable integrity;
3. Keen interest taken in the overall welfare of his Students;
4. Helping the poor and needy students;
5. Refrain from competition for Money, Power, Fame etc;

6. Acting as source of inspiration full of lofty human qualities of simplicity, humility, generosity and unselfishness.

15) Coal India Project Implementation Trophy 2017-18 :

The Honorary Secretary, MGMI invites nominations for award of Trophy from the Companies dealing with projects concerning production of coal or lignite. Nomination to be sent on each category for the award mentioned below. These are (a) Production of Coal, (b) Production of Lignite (c) Coal Washery plant and (d) any Central workshop attached with companies. The Award will be given to a project of the company and not to any individual. The selection of the project for the award will be decided on quality of design, choice of technology, largeness, complexity, project construction period and its keeping up of time and cost schedules.

**16) Prof. (Dr.) Mahendra Pratap Singh Memorial Coal Science Award
2017 - 18 : (A Gold plated medal, cash award of Rs. 15000/- and a Certificate)**

Any person with academic background of Geology/Geoscience/Chemistry/ Chemical Technology, who has proven knowledge and has made outstanding contribution in Coal Science mainly in the areas like Coal Characterization, Coal Petrology, Coal Beneficiation and carbonization, Coal Combustion, Clean Coal Technologies (CCTs) including Coal Gasification and Liquefaction and value added material from Coal, during the last five years including the current year, shall be eligible.

Each nomination shall be submitted in 07 (seven) copies in proper format together with 02 (two) recent passport size photographs of the nominee (copy of Proforma is available with the Honorary Secretary, MGMI and will be sent on request).

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The Advertisement Tariff for insertion in MGMI News Journal	
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Multicolour Front Cover Page, size 16 X 17cms, Rs. 25,000/- per insertion, per issue.	
Special offer for four issues : Rs. 90,000/-	

MGMI COUNCIL FOR 2017-18

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President's Message



Dear Friends,

At the very outset, I wish to convey a very happy and prosperous New Year 2018 to you and to your family members though belatedly. I hope, all of you are keeping well with your health and family.

It is really a matter of great pleasure for me to address the learned members of MGMI through this column and I wish to take the opportunity to inform you that the last Council Meeting of MGMI was organized at Hyderabad alongwith 16th Foundation Day Lecture on 24th February 2018.

You will be glad to know that MGMI has submitted a composite comment on the New National Mineral Policy as per comments asked from the Ministry of Mines, Govt. of India.

I think, perhaps, it is my duty to convey you all that we have had discussions with The Society for Mining, Metallurgy & Exploration (SME) and this Council at Hyderabad principally agreed on the proposal of SME on long term association and also agreed to be associated with SME and become member of SME. I am glad to inform that MGMI members may become members of SME as National Registering Organization (NRO), i.e. there will be dual membership of MGMI members, of course, there will be some restrictions in experience.

Another decision has been taken in the same Council Meeting on being satisfying the mandatory requirements of becoming as Recognized Professional Organization (RPO) of Committee for Mineral Reserves International Reporting Standards (CRIRSCO). MGMI on becoming RPO of CRIRSCO, MGMI members may become Registered Competent Persons (RCP). The Council also decided to hold a two-day professional training programme for its members in a suitable area in April/May 2018 on CRIRSCO template and its complaint standards, applicable to coal and minerals.

I urge MGMI members to actively participate in the activities of MGMI as a lot of efforts need to be made for making MGMI vibrant. The success of MGMI, depends on how efficiently and actively members take part in these endeavor.

Dr NK Nanda

LOOKING BEYOND PRODUCTIVITY — SAFETY AND MONEY

Emphasis on productivity and safety has always been there in the mining industry. With the growing environmental and societal liability consciousness in the society, the industry is also now geared up with new initiatives in number of new directions.

Government of India has now issued guidelines for mine closures both for metalliferous and coal mines. Rules 21 to 26 of the Mineral Conservation and Development Rules' 2017 now stipulates the process of submitting mine closure plans by mining lease holders. For mining performance standardization, the introduction of star rating under the sustainable development framework by the Ministry of Mines is a great step in Indian Mining industry. It has opened the path of responsible mining.

The Ministry of Corporate Affairs, Government of India through the Section 135 of the Companies Act, 2013 along with Companies (Corporate Social Responsibility Policy) Rules, 2014 and other notifications related thereto imposed on companies to spend, in every financial year, at least two per cent of the average net profits of the company made during the three immediately preceding financial years, in pursuance of its Corporate Social Responsibility Policy. In 2015 the District Mineral Foundation (DMF) Trust was also created by the Central government of India through an amendment in the Mines and Minerals (Development and Regulation) Act, 1957. A District Mineral Foundation Trusts are setup in all mining districts as a mechanism to share mining revenue for the benefit of people in these districts.

Producers of major minerals (such as coal and iron ore) contribute to the DMF 10 per cent of the royalty paid to the state government for mining leases granted on or after January 12, 2015, and 30 per cent of the royalty for leases before that. For minor minerals (such as sand and stones), the payments are decided by the states.

Provisions of money has been made, however, the changes are yet to be seen. Money alone cannot bring the change. We often lack innovative ideas and enthusiasm to bring a predefined change meticulously. The key requirements for realization of constructive dreams include true passion for innovation, passion for personal development and growth in the arena of innovation and desire to build an industry innovation connections. The innovation is needed not only to bring new technology but also to introduce new system of accounting and money utilization. The huge funds available with DMF must get translated to people's welfare. Being the generator of the fund mining companies must have a say on the effective use of the resources developed through DMF and in determining policies for monitoring its utilization for the defined purposes.

With the creation of the DMF, the post mining liabilities of the mining companies are now shared with the State. However, this is yet to be formulated. The post mining liability assessment is yet to be standardized keeping the various participation of the mining companies for the community development in consideration. The periodic review of mine closure plans should

go simultaneously with the review of closure activities for claiming the escrow funds deposited by the mine operators for mine closure.

While taking advantage of the money generated by mining industry for the Nation building and social welfare, the country needs to pay more positive attention towards **environment friendly mining and mining friendly policies**. Mineral free or fossil fuel free society is still a dream. Growth of alternative energy source and substitute raw materials to eliminate the needs of mining is not going to be there immediately. However, there is an increasing trends and therefore we must have a *mining industry that works*. For country like India, mining industry provides job security to millions of people directly or indirectly. Therefore, conflicts of mining and environment must be resolved through appropriate technology. Today mining performance is measured not merely by its productivity and profits,

but is integrated with safety performances, environmental performances and generation of social welfare.

The geologists, mining engineers and metallurgists of today are accepting new challenges looking beyond **productivity, safety and money** in delivering their responsibility to explore resource availability, making earth resources extractable, and performing value addition to the mining products and wastes for sustainable development to take place. Scientific and technological innovations in development of new tools and techniques for meeting these challenges and creating new systems for their governance will remain as areas of paramount importance in the mineral industry and academia in the coming years.♦

Prof (Dr) Khanindra Pathak

HoD (MI) IIT Kgp & Hony Editor MGMI

An appeal to all members

We are proud of being members of this old and prestigious Institute. We have grown manifold in multiple directions from the days of its inception. Our publications are the chronicles of our time and our roles for the mission, vision and evolution. They are the accounts of our activities.

Scientists and engineers as well as finance and personal managers involved in Indian mining, geological and metallurgical business and administration are full of exciting experiences. However, unlike many developed countries we are not capturing our histories in the making.

May we request all our esteemed members for :

- 1. Getting the younger incumbents to write the unrecorded experiences of our industry providing them necessary facts, figures and documents.*
- 2. Sending rare photographs, documents to enrich our Institute's archive.*
- 3. Getting our mining and mineral industries to greater participation in our goals of making India to champion the world's best practices and expertise for integrated natural resource development.*
- 4. Suggesting issues how MGMI can contribute to retain, revamp and regain core competencies of mineral industry for exploration, development and production of minerals while taking advantages of contemporary advancements of data analytics, internet of things, artificial intelligence.*
- 5. Initiating new debates on our mineral policies, mineral trading system, mineral governance, integrating production, processing and trading.*
- 6. Writing on scopes of creating new positions through knowledge integration in the mining industry like Mine Automation and Technology Engineer, Production Development Specialist Mechatronic, Geology Data Administrator.*

LETTERS

The Editor,

The MGMI News Journal Vol 43 No.2 July – September 2017 (Autumn Issue) was received only a few weeks back. It appears that all the good work done in the past for timely delivery of the MGMI News Journal has been lost once again. It will be very much appreciated if some schedule is followed for timely delivery. By now not only Winter Issue (Oct-Dec 2017) should have been with the Members but Spring Issue should also have been ready for delivery.

In this issue, writing on the Editor's page, you have touched upon a very important issue. Generally sand appears to be a very common and cheap material but in fact it is a very important ingredient in many engineering activities. It is interesting to know that this common place commodity has an annual world requirement of 44 billion tons as against availability of only 30 billion tons.

In 1960s this subject was discussed in MGMI News Journal as well as others. It is rather a sad state of affairs that nothing could be done to solve the problem till date.

For mining engineers, sand has been an important material for stowing purposes and in the past when underground production was at its prime, sand was in large demand. However, these days the stress is on open cast mining which has led to large scale negligence of underground mining operations and related problems including the issue of sand requirement.

Considering the constraints of land availability and pollution, the subject may become a hot topic once again sometimes in future. In the

olden days, one of the solutions being discussed used to be movement of sand from upcountry rivers by rail in empty wagons returning after supply of coal to power houses.

The other alternative could be dredging of dams, lakes and rivers to reclaim sand deposited over a long period thereby also increasing their capacity to store water.

Of late, sand mining has also become a major law and order issue in almost all the states with inability of administration to check the activities of sand mafia groups due to involvement of vested political interests.

Manufacturing sand whether by crushing sand stone or blast furnace slag may be good for construction activities but not for sand stowing purposes due to requirement of specific size fractions for stowing.

It is necessary to curtail the use of cement for road construction because it also blocks the percolation of water to charge the aquifers. Mining of sand stone rocks for production of sand is also an environmental issue.

There is no dearth of policies formulated. Rather the main problem is honest implementation of these policies.

MGMI should consider reviving debate on increasing production from Underground mining along with related subjects like sand stowing and sand requirement.

Regards,
Shiv Sharma
Life Member 2038

(From the Editor : We highly appreciate your concerns and participation. Sand mining and sand harvesting are not seriously studied in our country. We must appreciate that Ministry of Mines has now come out with a comprehensive Sand Mining Recommendation this year. Demands of sand in the country being about 700 million tonne a year with 6-7% annual growth rate, needs more scientific attention. River bed mining should be termed as sand harvesting as it depends on annual replenishment. However, sustainability of this replenishment needs detailed exploration and research.

Besides, being a commodity that is sold at Rs 70,000 to Rs 10,000 per truck of 30 te in some cities in India, sand can induce several other problems. The river sand mining or harvesting affects the natural ecosystem and there could be extinction of some aquatic and amphibious species along with loss of biodiversity. New diseases can affect the adjacent population due to environmental stress on the river system. The government may have extra economic

burden in arranging safe water supply system. In coastal river sand mining the problem may get manifold due to inrush of salinity to the river as well as to the soil. Increase in soil salinity may be associated with other short and long term damages in those cases. Sand mining can change the ground water recharging system. The bridges, roads, river banks and other water bodies near rivers like ponds and reservoirs also may face adverse effects of sand mining. The flood pattern may change leading to other socio-economic problems.

I will highly appreciate more thought provoking participation on sand mining issues by our esteemed readers.

Regarding your right concerns about our delays in publishing, we are trying to bring the system of paper submission, reviewing, and editing activities online. Hope we will be able to develop in-house capability in near future and dependency on external service providers for maintaining our website will be eliminated.)♦

ATTENTION TO MEMBERS

Annual subscription shall be payable in advance on the first day of April in each year of the commencing year. Are you upto date in paying your subscription and your address. Please do pay it for getting the News Journal/ Transactions and other correspondences on regular basis. Why not be a LIFE MEMBER by paying one time subscription which is economic and convenient? Fees for becoming life member has been revised and reduced drastically. Do not loose your voting right by becoming defaulter in payment of subscriptions.

Admission Fee for Membership :

Member (Member/Associate Member/Student Associate) – Rs. 400.00
Service charge for Life Membership Certificate – Rs. 60.00

Annual Subscription :

Members	Rs.	500.00	per annum
Associates	Rs.	300.00	"
Student Associates	Rs.	200.00	"
Subscribers	Rs.	5000.00	"
Donner Members	Rs.	20000.00	"
Patron Members	Rs.	50000.00	"
Corporate Members	Rs.	100000.00	"

Foreign Members :

(Life Membership) US\$ 500 one time payment

Fee for Life Membership :

(An Associate or Student Associate are not eligible for Life Membership).

Any Member can become a Life Member by paying a Lump Sum to the Institute as per following schedule :

Age Group	LM Fee	Admission Fee	Service Charge for Certificate
a. Upto the age of 45 years	Rs. 7000/-	+ Rs. 400/-	Rs. 60/-
b. From 45+ to 60 years of age	Rs. 6000/-	+ Rs. 400/-	Rs. 60/-
c. Beyond 60 years	Rs. 4000/-	+ Rs. 400/-	Rs. 60/-

No Admission Fee is required to be paid for existing member to become Life Member.

HEADQUARTERS ACTIVITIES

THE ORDINARY GENERAL MEETING (OGM)



A view of the participants in the OGM held on 17th March, 2018

PRESIDENT'S CUP GOLF TOURNAMENT



MGMI President's Cup Golf Tournament

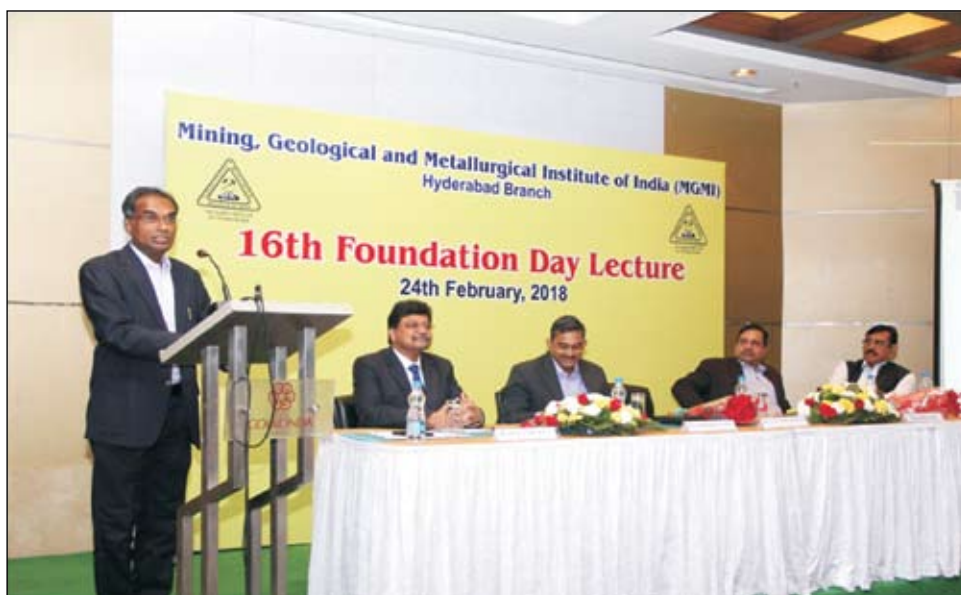
BRANCH ACTIVITIES

CALCUTTA BRANCH



Participants in the Annual Get-together 2018 of MGMI Calcutta Branch

HYDERABAD BRANCH



Dr S Chandrasekhar, FNA, Director CSIR-Indian Institute of Chemical Technology, Hyderabad, delivering 16th Foundation Day Lecture

HEADQUARTERS ACTIVITIES

The Report of the 877th Council Meeting of MGMI held at MGMI Bldg., GN-38/4, Sector – V, Saltlake, Kolkata – 700091 on 16th December, 2017 at 1.30 p.m. (Duly approved in the 878th Council Meeting held on 24th February, 2018).

Present : Dr NK Nanda, President in the Chair. The meeting was attended by Prof Banerjee SP, S/Shri Ritolia RP, Jha NC, Goenka JP, Acharya A, Arora VK, Bose LK, Ghosh Samir Kr, Karmakar AK, Prof (Dr) Karmakar GP, Moitra AK, Prof (Dr) Mukhopadhyay SK, Dr Sen Kalyan, Dr Sinha Amalendu, Prof (Dr) Singh Pradeep Kumar, Prof (Dr) Pathak Khaninda, Roy Prasanta, Talapatra Ranajit, Kundu DK and Lochan Rajiw.

ITEM No. 0 Opening of the Meeting

- 0.1 Shri Rajiw Lochan, Hony. Secretary extended welcome to all members and requested Dr NK Nanda, President to Chair the Session. The meeting was Chaired by the President, Dr NK Nanda.
- 0.1.1 Leave of absence was granted to those who could not attend the Meeting.
- 0.2 President welcomed the Past Presidents, newly elected Council members and all other Council members and Invitee.

Condolence :

One minute silence was observed in the memory of late Rabindra Nath Das, late Vinay Mahajan and late Phalguni Guha.

Late Rabindra Nath Das (MMGI, LM – 7162, 1996-97) passed away on 4th November 2017. Late Das was a member of MGMI family since 1996-97. A former Director

(SG), Geological Survey of India, born on 5th September 1947, he post-graduated from University of Calcutta in 1970. He underwent GOI training at GSI, Kolkata and joined GSI in late 1974 as Geologist. He was promoted to Sr Geologist in 1985 and to Director in 2003. As Director he supervised operations in Damodar Valley Coalfields, Resource Assessment and Co-ordination (Technical) divisions of Coal Wing. He was associated with the preparation of CBM dockets that Coal Wing, GSI produced for Directorate General of Hydrocarbons in 1997. Late Das superannuated in September 2007.

Mr JP Goenka, Mr VK Arora, Prof SP Banerjee spoke about late Vinay Mahajan. Late Vinay Mahajan (MMGI, 7901-LM, 1998-99) left for heavenly abode on 13th November 2017. Late Mahajan graduated in mining engineering from Indian School of Mines, Dhanbad in 1961. After serving in RCA and other coal companies and after obtaining first class certificate of competency, he joined DGMS and rose to the top position in 1995. As Director General of Mines Safety, he ensured strong administration in all spheres of DGMS activities including conducting of statutory examinations. He also took active interest in establishing testing facilities of powered roof support as per British Standard for first time in India. With financial and administrative help from Coal India, such test facilities were developed at Jessops, Kolkata, which proved very useful for longwall mines. He also took interest in introducing fire resistant hydraulic fluid in machinery at underground coal mines in India. Late Mahajan was an avid sportsperson who was declared "Sportsman

of the Year 1961” during his ISM days. He represented ISM in cricket and athletics in various Inter College/University tournaments.

Mr Prasanta Roy and Mr NC Jha, spoke about late Phalguni Guha. Late Phalguni Guha (MMGI, LM 8553) left this material world on 27th November, 2017 at Tata Memorial Cancer Hospital, Kolkata, after a critical illness. With heartfelt grief MGMI members wishes his soul to Rest in Peace in his heavenly abode. May God give strength to his surviving family members and friends to bear the loss. He survived by his wife and son. Late Guha, Life Member of MGMI family since 2002-03 and he was Council Member of MGMI for two terms and presently has been elected as Council Member for the term 2018-20. He graduated in Mining Engineering from ISM Dhanbad in 1975 and has acquired FCC (Coal) from DGMS. He obtained Diploma in Business Management in 1983, Diploma in Marketing Management in 1984 and Diploma in Industrial Engineering and Management from ISM in 1988. An eminent Mining Engineer having over three decades of experience in Indian Coal Mining Industry. He held the post of CGM (Coal Videsh) at the time of his retirement in 2014. With over 35 years of diversified experience in Underground and Opencast Mine Operations, Planning of Mega Underground Longwall Mining Operations and other new Technologies during his service in CIL.

President there after took the agenda items.

877.1.0 To confirm the minutes of the 876th meeting of the Council held at the MGMI Bldg., Kolkata on 16th September, 2017

The Minutes were circulated to all Council Members. So far, no comments were received. The Council then resolved that :

Resolution : Be it resolved that the Minutes of the 876th (4th meeting of the 111th Session) meeting of the Council held on 16th September, 2017 at Kolkata are confirmed.

877.1.1 To consider matters arising out of the minutes.

The Council then considered the Action Taken Report on the Minutes of the 876th Council Meeting held on 16th September, 2017 at Kolkata and noted the report.

Institute of Awards and Medals : Mrs (Dr) Meenakshi Singh wife of late Prof (Dr) MP Singh proposed to Institute an Award and a cash prize of Rs. 15,000/- in the memory of Prof (Dr) Mahendra Pratap Singh Coal Science Award. The Council accepted the proposal and advised to inform our acceptance and request her to contribute Rs. 5,00,000/- towards the corpus fund for the Award and Medal (Cash Rs. 15,000/- + Gold Plated Medal and a Certificate).

Hony Secretary Rajiw Lochan requested New Council members for self introduction.

877.2.0 To discuss about the forthcoming events of the Institute

a) Foundation Day Lecture

It was suggested and agreed that the Foundation Day Lecture will be organized on 20th January 2018 at Ranchi. It was proposed that the Chairman ONGC, or Secretary (Coal) or other from MoCand Principal Seceretary, Govt of Jharkhand may be approached for delivering the lecture. However, President and Hony. Secretary will decide subject to availability of renowned professional as Speaker.

b) Holland Memorial Lecture

After detailed deliberation it was agreed that Holland Memorial Lecture should be organized along with the Annual General Meeting in September at Kolkata.

877.3.0 To report about the 7th Asian Mining Congress & Exhibition held during 8-11th November, 2017 at hotel The West in Rajarhat, Kolkata

The report on the 7th Asian Mining Congress and Exhibition held during 8-11 November 2017 was distributed to all the Council Members.

Shri Prasanta Roy thanks to all the council members for their kind cooperation in all aspect for making the 7th Asian Mining Congress and Exhibition a grand success. He also mentioned special contribution of President Dr NK Nanda and Vice-President Shri AK Jha for fund raising and bringing delegates from different companies. Shri LK Bose, Chairman, Technical Committee placed Highlights of 7th AMC including Recommendations. While discussing on the recommendations, the council appreciated the efforts of Shri LK Bose and his technical team. Shri NC Jha and Dr Khanindra Pathak expressed that the recommendations should also be summarized to place in covering letter and published recommendations should be send as enclosure. Prof Dr Khanindra Pathak and Shri Nilmal Chandra Jha volunteered themselves to do the needful in this regard for needful by the technical committee.

877.4.0 To discuss and consider the recommendation made by the Committee for Revision of Pay Structure of the Staff of MGMI

The recommendations made by the Committee on Revision of Pay Structure for the Staff of

MGMI was placed as report and discussed. The Council considered the report and approved with effect from the month of December 2017. A committee for fund management was constituted with the following members for optimization of available fund with MGMI and to suggest for appropriate investment in view of decreasing interest rate in FDs.

- (i) Shri NC Jha
- (ii) Shri RP Ritolia
- (iii) Shri JP Goenka
- (iv) Shri VK Arora
- (v) Hony Secretary, MGMI / Hony Jt Secretary, MGMI
- (vi) Hony Treasurer, MGMI
- (vii) Imm Past Hony Secretary

877.5.0 To Elect Office Bearers viz Vice Presidents, Hony Jt Secretary, Hony Treasurer and Hony Editor amongst Council Members of the Institute for the year 2017-18

Vice Presidents (04) : Four Vice Presidents names were proposed and unanimously elected as Vice Presidents for the year 2017-18 as follows :

Shri Anil Kr Jha, Shri Avijit Ghosh, Shri Pravat Ranjan Mandal and Shri JP Goenka.

Hony Jt Secretary :

Shri Ranajit Talapatra was unanimously elected as Hony Jt Secretary for the year 2017-18.

Hony Treasurer :

Shri Samir Kumar Ghosh was unanimously elected as Hony. Treasurer for the year 2017-18.

Hony Editor :

Prof (Dr) Khanindra Pathak was unanimously elected as Hony Editor for the year 2017-18.

It has also been resolved that all the Accounts of MGMI will be operated upon signature of any two of the Hony Secretary, Hony Jt Secretary and Hony Treasurer.

877.6.0 To consider applications for membership and the membership position of the Institute

- a) The Council approved 08 applications out of which 07 for Life Membership and 01 for Student Associate.
- b) The Council noted the present position of membership which is as follows:

The Council desired and proposed that Chairmen of MGMI Branches and Senior Council Members must take initiative for membership drive on priority to make MGMI visible at all corner.

877.7.0 Any other matter with the permission of the Chair

1. **An appeal dated 03rd November 2017, received from Shri Suresh Prasad Verma, Office Assistant of MGMI who is retiring from the active service of MGMI on 31st December 2017**

The Hony. Secretary informed the Council that Shri Suresh Prasad Verma, Office Assistant will superannuate attaining at the

Membership Position (As on 16.12.2017)					
	16.09.2017	Add	Trans	Loss	16.12.2017
Member	265	-	-	-	265
Life Member	2483	07	-	03	2487
Associate	39	-	-	-	39
Student Associate	06	01	-	-	07
Life Subscriber	32	-	-	-	32
Subscriber	01	-	-	-	01
Donor	02	-	-	-	02
Patron	04	-	-	-	04
Corporate	08	-	-	-	08
	2840	08	-	03	2845

age of 60 years on 31st December 2017. He placed the appeal letter received from Shri Suresh Prasad Verma before the Council. The Council considered his application sympathetically and considered to engage him for one year in MGMI on consolidated amount of Rs. 10,000/- per month for work as Office Assistant with effect from 6th January 2018 at a consolidated amount of Rs. 10,000/- only per month.

2. Mr JP Goenka, Council Member suggested the following regarding Council Election for its consideration :

The Council deliberated the suggestions made by Mr JP Goenka and advised that the Scrutinising Committee for the forthcoming Council Election would look into the matter whether it would be feasible within the clause of Memorandum of Articles of MGMI.

3. MGMI President's Cup Golf Tournament – 2017

The Council agreed the proposal for organizing MGMI President's Cup Golf Tournament. Name of Shri JP Goenka as Convenor of the tournament was agreed by the Council. He was authorized to constitute a Committee, date and venue for the Golf Tournament. The suggested venue is Sambalpur (Odisha).

4. Enhancement of Printing rate for MGMI News Journal :

The Hony. Secretary placed the appeal made by M/s Graphique International the

existing printer for MGMI News Journal for 5% enhancement of printing rate. The Council considering the market condition, approved 5% enhancement on the printing rate for MGMI News Journal with effect from ensuing issue of the said Journal in consultation with the Editor.

5. Proposal received from Dr PV Rao, Co Chairperson, NACRI to nominate a member from MGMI in lieu of Late Phalguni Guha, in NACRI.

The Council discussed the matter and nominated Shri Amrita Acharya as a member from MGMI in lieu of late Phalguni Guha, in NACRI.

6. Proposal received from Dr PV Rao, Co Chairperson, NACRI for holding a 2-3 day Professional Training Programme in May 2018 at Kolkata for enlighten the Professionals on International Estimation, Classification and Reporting Standards of Resources.

The Council discussed the matter and principally agreed for holding a 2-3 day Professional Training Programme. Expenditure for local hospitality and food will borne by MGMI. However, no professional charges will be made by MGMI.

The meeting ended with vote of thanks to the Chair at 5.00 p.m.♦

REPORT ON 16TH FOUNDATION DAY LECTURE

The 16th Foundation Day Lecture of the Institute was held at the Hotel Golconda, Masab Tank, Hyderabad 500 028 organised by MGMI Hyderabad Branch on Saturday, the 24th February 2018 at 11.30 am.

Mr Rajiw Lochan, Honorary Secretary extended welcome to the Speaker Dr S Chandrasekhar, Director, IICT, Hyderabad, Former Presidents, Council Members, Members and Guests. He also welcomed to Dr Chandrasekhar and other dignitaries on the dais. Dr S Chandrasekhar, Mr PK Satpathy, Dr NK Nanda, Prof BB Dhar, Mr RK Saha and Mr Avijit Ghosh were presented bouquet. The Honorary Secretary requested President to give Welcome Address. Brief of Foundation Day Lecture was given by Mr Avijit Ghosh, Vice President, MGMI and CMD, HEC, Ranchi.

Mr PK Satpathy, Director (Production) NMDC spoke on “Changes in Mining Legislation and its Impact”. Brief introduction of speaker was given by Mr DK Kundu, Honorary Secretary, MGMI Hyderabad Branch. Thereafter, the Honorary Secretary requested Dr S Chandrasekhar, to deliver his lecture.

Dr S Chandrasekhar, FNASC, FASC, FNA, Director, IICT, Hyderabad was delivered his lecture on “Role of Science for Human Wellbeing”.

Former President Prof. BB Dhar spoke about Century Old Institute and Future Prospect of Mineral Fraternity.

Mementos are handed over to the Key speaker Dr Chandrasekhar, and Mr Satpathy. The Lecture was attended by more than 92 eminent Members, Guests, President and Former Presidents.

The President thanked Dr Chandrasekhar for delivering the valuable lecture and also thanked Mr Satpathy and the participants.

Vote of thanks was given by Mr Rajiw Lochan, Honorary Secretary, MGMI Headquarters and he assured that the Foundation Day Lecture will be published in MGMI transactions. The event was concluded at 1-30 pm followed by lunch.♦

ATTENTION MEMBERS

Are you up to date in paying your subscription? Please do pay it for getting the News Journal and other correspondences on regular basis and for exercising your voting right. Why not opt for LIFE MEMBERSHIP by paying a one-time subscription! This is both convenient and economical.

REPORT ON ORDINARY GENERAL MEETING OF THE 112TH SESSION

The Ordinary General Meeting (OGM) of the Institute was held at the Headquarters Bldg., of MGMI, at GN 38/4, Sector V, Salt Lake, Kolkata 700 091 on Saturday, the 17th March, 2018 at 3.30 pm.

The OGM attended by S/Shri R K Saha, Smarajit Chakrabarti, Dr Rajib Dey, Amit Kumar Bhandary, Amitava Bandyopadhyay, Dr SK Pal, Sathish Kumar P, Dr Barendra Purkait, Dr TK Mallik, Dr AK Talapatra, Ranjit Datta, Akhilesh Choudhury, Dr AK Moitra, Biswabandhu Das, Santanu Chakraborty, Amar Kr Majumdar, DrAnupendu Gupta, SR Panja, Dr Kalyan Sen, SA Sufiyan, Arunabha Das, Bhaskar Chakraborti and Ranajit Talapatra.

The Honorary Jt Secretary, Shri Ranajit Talapatra, extended welcome to all the Members, Speakers and Guests present. Shri Talapatra proposed the name of Shri RK Saha, former President MGMI to Chair the Session. The proposal was seconded by Shri Smarajit Chakraborti. Shri RK Saha took the Chair and welcome to the Speakers, Council Members, Members and Guests. The Chairman thereafter took up the Agenda items and requested the Speakers to present their papers one by one. He also advised the Speakers to present their papers first, preferably within 15 minutes and thereafter participants may raise question, if there be any.

The following four papers were presented:

- i) **“Pressure Signature Analysis in Gravity Blind Backfilling Method”** by Prof. (Dr.) Samir Kr. Pal, IIT, Kgp, Dr. Anup Kr. Tripathi, MsSusmita Panda and Shri Sathish Kumar Palaniappan. This paper was presented by Prof (Dr) Samir Kr. Pal.

- ii) **“Utilisation of Low Grade Chromite Ore for the Production of Carbon Free Ferrochrome”** by Dr Rajib Dey, Professor, Jadavpur University, Metallurgical and Material Engg. Deptt., S/Shri Amit Kr Bhandary, Maharshi Ghosh Dastidar, Siddhartha Mukherjee and Ms. Mahua Ghosh Chaudhuri. This paper was presented by Shri Amit Kr Bhandary and complemented by Dr Rajib Dey.

- iii) **“Sedimentation and stratigraphy at the interface of the Indian Shied and Himalayan Oogen : A critical resume of evolution of the Ganga and Siwalik Basins”** by Dr Barendra Purkait, Former Director, GSI.

- iv) **“Rocks Within Wine – Importance of Geology in Global Viticulture and Wine Making with an Apology to Indian Scenario”** by Shri Amitava Bandyopadhyay, Former Director, GSI.

There were lively discussions on the papers as presented. The Chairman appreciated Speakers for their works and valuable contribution. However, some questions were raised by the members and the questions were adequately clarified by the Speakers. The Chairman, Shri RK Saha while summing up, thanked the Speakers especially to Prof (Dr) Samir Kr Pal for taking the trouble of coming all the way from Kharagpur. He also thanked the participants to take part in the discussions.

The Honorary Jt Secretary, Shri Ranajit Talapatra while giving vote of thanks, he mentioned that the papers presented in the OGM will be printed in MGMI Transactions. The papers presentation Session was ended at 5.15 pm.♦

REPORT OF MGMI PRESIDENT'S CUP GOLF TOURNAMENT

MGMI President's Cup Golf Tournament was held on 18th March 2018 at MCL Golf Club, Sambalpur 768018

Sri Anil Kumar Jha and his team made excellent arrangement for the visiting Golfers. MCL Golf Club Course has its own character and course is challenging. It is improving every year. It is expected in not-too distant future it will hold golfing events of National importance.

Dr RN Sharma, a young Golfer of 94 years graced the occasion with his presence. He played 18 holes without the Golf cart. We are sure he will complete his century on the Golf course & every member of MGMI Golf community will be a part of this great event.

The seed which was planted by Sri SN Sharma, Former CMD, MCL has blossomed into a full tree and has become a cradle for learning Golf. Hopefully, MCL will continue to support this event in the years to come.

Sri Anil Kumar Singh and Sri J Kumar of MCL took initiative to make the event a memorable one and it may also be mentioned that Sri RP Ritolia, Sri Rajiw Lochan, Sri Anil Karmakar, Sri Vikash Jain & Smt Deepali Jain contributed their mite and effort for the success of this event.

MGMI is thankful to its patrons & advertisers. Without their support this event could not have been held. We missed the presence of Dr NK Nanda, President, MGMI.

I must acknowledge that all this has been made possible by the unstinted help, cooperation and guidance from all my golfing friends.

The winners of year 2018 are :

WINNER	– Mr AK Behura
2nd Best Runner Up	– Mr AK Singh
Best Gross	– Mr J Kumar
Best Stableford Score	– Mr Avijit Ghosh
Best Outstation Player	– Mr OP Killa
Best Net for Senior Golfer	– Mr BD Dutta
Best Net for Senior Golfer (9-Hole)	– Mr JP Goenka
Nearest to the Pin	– Mr AK Karmakar
Longest Drive	– Mr Vikash Jain
Best Net for Ladies Golfer	– Mrs S Karmakar

Ladies putting competition :

- 1) Mrs Sulochana Prasad
- 2) Mrs Deepali Jain

MGMI 2018 Appreciation Award :

- 1) Mr CR Mohanty
- 2) Dr RN Sharma
- 3) Mr M Choudhary

Happy Golfing,
JP Goenka
Convenor



BRANCH ACTIVITIES

Calcutta Branch

MGMI Calcutta Branch, known for its unique activities, apart from time to time organizing workshops / seminars, lecture sessions on topical techno-scientific issues, makes conscious efforts to promote interaction amongst its members and families. This year, the regular annual event of the branch, 26th Annual Get-together of families of the members was held on 21st January 2018. It was arranged at Golden Glow Garden, Dingelpota, south of Boral, 24 Paraganas (S), West Bengal.

The daylong event was attended by about 140 persons comprising members and their families. Five luxury coaches picked up the participants in the morning from different parts of Kolkata and outskirts, and dropped them back at the evening. The day at the spot was spent over breakfast, mid day snacks and beverages, lunch, afternoon tea interspaced with many other fun and frolic.

There were sports items for all age groups. For children, the items for different age groups, were, short Races, Roll the ball and Hit the target. For ladies, it was Passing the ball and for men, Hit the wicket. Most participants took part in the items joyfully, the elders watching their junior family members enjoying heartily.

The game of Housie was a key attraction where almost everyone took part.

Friends, colleagues, alma maters, professional acquaintances and their families remained engrossed the whole day in 'adda' (chatting).

A meeting of the Working Group on Preparation of draft of Public Reporting System for Coal was held at the venue to finalise the draft report.

Proceedings of the 'Workshop on the Role of Coal Petrography in Industrial Utilization of Coal, Particularly in Steel & Power Sectors', organized earlier by Calcutta Branch was distributed to the members.

Members who took part in the get-together were – S/Shri LK Bose, Founder member of the branch, RK Saha, Past President, MGMI, Prasanta Roy, Immediate Past Secretary, MGMI, Ranajit Talapatra, Jt. Secretary, MGMI, SK Chowdhury, Former Controller General, IBM, Akhilesh Chowdhury, Former Dy. D.G., GSI, Dr Kalyan Sen, Council Member, Executive Committee Members of Calcutta Branch. The MGMI Calcutta Branch expresses sincere thanks to all the participating members for making the event a grand success.

At the conclusion, participation mementoes were presented to the members and dinner packets were given to all before leaving. ♦

ATTENTION BRANCHES

Branches are requested to send the list of the members of the Executive Committee with their Addresses, Telephone Numbers, and e-mail IDs for maintaining record at MGMI Headquarters. They may also activate their Branches and send Reports for inclusion in the News Journal.

NEWS ABOUT MEMBERS

As on 05.01.2018

Shri PK Maheshwari (8704-LM) MMGI is now at Director of Mines Safety (CMC), H No C-II/12, Type – VI, Golf Colony, DGMS, Dhanbad (Jharkhand) 826 001 (M) 9414155725 email : pmd_mh@yahoo.co.in

Shri KP Gupta (1676-LM) MMGI is now at La Lagune Apartments, C 1601, Sector 54, Gurgaon 122 001 (Haryana) email : kailashgupta39@yahoo.com

Shri Shiv Sharma (2034-LM) MMGI is now CGM (Retd.) CIL, D2, Ashtavinayak Aastha, Opp WCL Mines Rescue Station, Near Power Grid Square, Kalpana Nagar, Nagpur 440 026 (M) 9423105759 (0712) 2634435 email: 2000.shiv@gmail.com

Shri Anil Gupta (9281-LM) MMGI is now at Flat No K 123, Gullshan Vivante, Sector 137, Noida (UP) 201 304 (M) 8826077554 email: agagdel@yahoo.co.in

Shri Rattan Lal Mattoo (10646-LM) MMGI is now at Flat No K 084, Tower K, Gulshan /Vivante, Sector 137, Noida Expressway, UP 201 301 (M) 9711733272 email : rattanmattoo@yahoo.com

Dr Pradip (6781-LM) MMGI is now Former Vice President, TCS, A3/504 Oxford Village Classic, Wanowrie Pune 411 040 (Ph) 922551568 email : pradip18568@gmail.com

Shri Nirmal Kumar Jain (10026-LM) MMGI is now at Plot No 7, Ambazari Layout, Opp Ambazari Garden, Behind Dharampeth Science College, Nagpur 440033 email : nirmal.jain1957@gmail.com

Shri A Venkateshwer Reddy (10116-LM) MMGI is now Manager, MVTC, MM Q No A-3,

KK-2 Bungalows Area, Post Mandamarri, Dist. Mancheriyal, State Telangana 504231 (M) 9491144692, 9959827095 email: mvtc_mmr@scclmines.com, venkateshwerreddy@gmail.com

Shri SN Changmai, (9515-LM) MMGI is now at Flat No 5/D, Pragiyotika Green Apartment, Shiv Mandir Path, Banghorbori 781 037, Guwahati, Assam (M) 9435138200, email : snchangmai@gmail.com

Shri Bibhuti Bhusan Das (9167-LM) MMGI is now at Radha Govinda Road, PO Digboi, Dist. Tinsukia, Assam 786 171 email : bibhutids22@gmail.com

Shri Mahendra Pratap Singh (3956-LM) MMGI is now at C-103, Raheja Eternity, Thkur Village, Kandlivali (E) Mumbai 400 101

Shri Samares Bandyopadhyay, (3275-LM) MMGI is now at DL-64, Sector 2, Salt Lake City, Kolkata 700 091 (M) 90515 58670 email: esbanerjee2005@yahoo.com

Shri NN Gautam (7861-LM) MMGI received “Energy and Environment Foundation Dr. A N Saksena Memorial Life Time Achievement Award 2018” on 15th February, 2018. Mr Piyush Goyal, Hon’bel Minister of Railway & Coal, Govt of India and Mr Sushil Kumar, Secretary Ministry of Coal, Govt. of India along with Mr Anil Razdan Chairman, Energy and Environment Foundation, Mr SK Srivastava Co-Chairman Steering Committee World PetroCoal Congress and Dr Anil Garg, CEO Energy and Environment Foundation gave away the prestigious “Energy and Environment Foundation Dr. AN Saksena Memorial Life Time Achievement Award 2018” in Coal Sector.

Dr Pradip (6781-LM) MMGI is now at A3/504, Oxford Village Wanowrie Pune 411 040 email pradip18568@gmail.com

Shri Pranab Kumar Chakraborty (9177-LM) MMGI is now at Vijaya Apartment, 2nd Floor, Flat No C/2, Nanda Ghosh 1st Lane, Fatekgora, PO Chandannagar, Hooghly 712136 email pranabkumar1952@gmail.com

Shri Yash Kumar Soi, MMGI is now at Om Shree N Shanti Niwas, Beside Om Royal Apartments, Near Sahara Office, Raj Kishore Nagar, Bilaspur (CG) Pin 495 006

Shri A Venkateshwer Reddy (10116-LM) MMGI is now at Q No A-3, Bungalows Area KK2, Post Mandamarri, Dist Mancheriyal, Telangana 504 231

Shri Anurag Kumar (9687-LM) MMGI is now GM, Salanpur Area/ECL, PO Lalganj, Dist. Paschim Burdwan, West Bengal 713359 Ph : 8348484455

Shri Rakesh Kumar (9202-LM) MMGI is now GM, HOD-S&R SECL, F-246, Rama Green City, Phase II, Khamtarai Road, Bilaspur (CG) Pin 495006, (M) 9340047696, email : rakeshravikumar24@gmail.com

Shri SK Jha (8776-LM) MMGI is now at FM (Mining) Production Division, Coal Bhawan, CIL, Rajarhat, Kolkata 700 156 email jhashibakant@gmail.com

Shri KP Gupta (1676-LM) MMGI is now at C1601, Lagune Apartments, Sector 54, Golf Course Road, Gurgaon 122001, Haryana, NCR email: kailashgupta39@yahoo.com

Shri Anoop Kumar Sengupta (10526-LM) MMGI is now Former CGM, BCCL, Block 2, Flat 4(B), Westwind, 78, Raja S C Mullick Road, Kolkata 700 084 Ph : 9973776274 email: anoopksg@gmail.com

Shri Vinay Prakash Sinha, (4868-LM) MMGI is now at Sinha Villaa Plot no 86 A, Gajanan Naga Wardha Road, Nagpur , Maharashtra 440 015 (M) 9326656195, ph : 712 2250221 email sinhavp@yahoo.com

Shri Balaswamy Akala (7835-LM) MMGI is now at 4/17, First Main Road, Gandhinagar, adya, Chennai 600020 Ph: 09899279391

Shri MSS Reddy (10124-LM) MMGI is now at Qtr No D-8, Bandhabahal, Dist. Jharsuguda, Odisha 768211 email: mssreddy1719@gmail.com

Shri Anil Kumar (10058-LM) MMGI is now at Manik Sarkar Ghat Road, Bamgali Tola, Bhagalpur, Bihar 812001 email anilkumarsiya@gmail.com

Mahammad Sabit (9570-LM) MMGI is now GM (Mining) Room No.6, VIP Guest House, WCL, PO Pathakhera, Dist. Betul, MP 460 449 sabirdm12@yahoo.com

Shri JK Satapathy (9171-LM) Sr Manager (Mining) is now at Qtr No C/30, G M Complex, IB Valley Area, AT/PO Brajrajnagar 768216, Odisha email jksatapathy1968@gmail.com

Shri Ashoke Karmakar (10250-LM) MMGI is now at Natural Heights, Block -1, Flat No 2D, Faridpur, Durgapur 713 213, West Bengal email: ashokekarmakar82@yahoo.com, (M) 7586031472

Shri Ashok Prasad Singh (9935-LM) MMGI is now at Flat No A/302, Shivpriya Tower, Jaitala, Nagpur 440 036 (Maharashtra) email : ap.singh2050@gmail.com

Shri Rahul Guha (7196-LM) MMGI is now at Q 1G (lobby3) Sherwood Estate 169, NSC Bos Road, Narendrapur, Kolkata 700 103 email : rahulguha@hotmail.com (M) 7596924608♦

NEW MEMBER

(As approved in Council Meeting on 24. 2. 2018)

As Life Member

10765-LM, Shri Manoj Kumar, B. Tech (Min), General Manager, CMPDI, 1D/8W, CMPDI Colony, Kanke Road, Ranchi – 834031, Jharkhand, Mobile : 8987789088/ 9300312657
Mail : hodcbm.cmpdi@coalindia.in, manojvic@rediffmail.com

10766-LM, Shri Amit Kumar Singh, B. Tech. (Min), Sr. Manager (Min), NMDC Ltd, Resource Planning Department, Castle Hills, Masab Tank, Hyderabad – 500028
Phone : 9160863322, E-mail : mindev.amit@gmail.com

10767-LM, Shri Sushil Behl, Former Director (Fin), WCL, M.Sc (Chemistry) MBA (Fin) CMA (Inter) 2084/37, Gurudwara Road, Karol Bagh, New Delhi – 110005, Mobile : 9811111592
Mail : sushilbehl@gmail.com

10768-LM, Shri Satyadev Jaiswal, B. Tech (Min), Manager (BMCP), NMDC Ltd. Flat No. 506, Ashok Vihar Residency, Near ISOLA, Kismatpur Road, Bandhguda Jagir, Hyderabad – 500086, Phone : 9406319002, Email : satyadev8661@gmail.com

10769-LM, Shri Navin Dubey, B.E. (Metallurgy) MBA (Public sector), DGM (CP), NMDC Ltd. Flat No. 202, 14-152, Vinayaka Heights, Berrappagada, Uppal, Hyderabad-500039
Phone : 9440549642, E-mail : navindubey2@gmail.com

10770-LM, Shri Banbihari Mahato, B. Sc (Hons) Geol, M. Sc (Geol) M. Sc (Tech), ApplGeo. Dy. Manager (Geology), NMDC Ltd. Centre for Geo-statistic, 3rd Floor 10-3-311/A, Castle Hills, Masab Tank, Hyderabad – 500028
Ph : 7032349086 E-mail : banbihari_45@rediffmail.com

10771-LM, Shri Partha Sarathi Jena, BSc (Hons) Geol, M.Tech (ApplGeo) PhD (Appl. Geol) Asstt. Manager (Geology) NMDC Ltd., 3rd Floor, Geo-statistic Department, Khanij Bhavan, Hyderabad – 500028, Phone : 9701079075, 9438681912 (Resi), E-mail : parthasarathi786@gmail.com

10772-LM, Shri Sita Ram Majee, B.Sc Eng (Min) M. Tech. (Env) P.G. Dip (Remote Sensing & GIS) FCC (Min), Dy G.M. (Min), N.T.P.C Ltd., Dulanga Coal Mining Project, Mission Road, Sundargarh, Odisha – 770001, Phone : 9437553224/9937387224 (Resi), E-mail : srmajee.ntpc@gmail.com

As Associate Member

10764-A, Shri Rohit Jaiswal, M. Sc (Appl. Geol), Gerologist, 40, Guru Prasad Chowdhury Lane, Kolkata – 700006 Mobile : 9748784827
Mail : rohit.jaiswal1892@gmail.com
koolrohit0007@gmail.com♦

UPCOMING EVENTS

June 2018

11 to 13 June : Biohydrometallurgy '18 Conference. Windhoek, Namibia
Website: <http://www.min-eng.com/biohydromet18/> **Contact person:** Dr Barry Wills. 9th Int Symp on Biohydrometallurgy will focus on the latest developments in the field of biohydrometallurgy: the development, optimisation and application of integrated biomining process operations for mineral ores, including low grade and complex...
Organized by: MEI Check the *event website* for more details.

14 - 15 June: Sustainable Minerals '18. Conference. Windhoek, Namibia. **Website:** <http://www.min-eng.com/sustainableminerals18/> **Contact person:** Dr Barry Wills. The 5th Int Symp on Sustainable Minerals '18 is organised by MEI in consultation with Prof Markus Reuter. The rapid growth of the world economy is straining the sustainable use of the Earth's natural resources due to modern society's **Organized by:** MEI. Check the *event website* for more details.

17 - 21 June : International Conference on Aluminum Alloys, Venue Montreal, Canada. Website: <http://go.evvnt.com/156744-0> **Contact person:** Brigitte Farah. The 16th edition of the ICAA conference where academic and industrial researchers, scientists, and engineers meet to discuss recent developments in aluminum science, technology, and applications. **Organized by:** ICAA16 Secretariat, Metallurgy and Materials Society of CIM (MetSoc of CIM). **Deadline for abstracts/proposals:** 16th June 2018. Check the *event website* for more details.

September 2018

5-7 Sept : International symposium Indian Aluminium Industry – Status, Strategies & Way Forward for Accelerated Growth. Venue: Mumbai, India. Organiser: **International Bauxite, Alumina & Aluminium Society**

(IBAAS). The Symposium will provide an excellent opportunity to meet and interact with international experts, scientists, engineers, entrepreneurs, equipment manufacturers, representatives of aluminium industry world over. **Contact:** Ms. Mohini, Executive Assistant, IBAAS. info@ibaas.info; ashok.nandi@ibaas.info Web site: <http://www.ibaas.info/> Cell No. +91 9860240380. Watch Website for details.

November 2018

19 Nov : Process Mineralogy '18, Conference. Venue: Cape Town, South Africa. **Website:** <http://www.min-eng.com/processmineralogy18/> **Contact person:** Dr Barry Wills. This, the 5th International Symposium on Process Mineralogy (Process Mineralogy '18), is organised by MEI in consultation with Dr Megan Becker and is sponsored by ZEISS, Bruker and Thermo Fisher Scientific. Media sponsors are International Mining. **Organized by:** MEI. **Deadline for abstracts/proposals:** 31st May 2018. Check the *event website* for more details.

22 - 23 Nov. : Developments in the Processing of the "Hi-Tech" Metals (Hi-Tech Metals '18) - Conference. Venue: Cape Town, South Africa. **Website:** <http://www.min-eng.com/hitechmetals18/> **Contact person:** Dr Barry Wills. Developments in the Processing of the Hi-Tech Metals will be MEI's 1st international conference dealing with the mineral processing & extractive metallurgy of these metals, & the environmental problems that are often associated with their extraction. **Organized by:** MEI. **Deadline for abstracts/proposals:** 31st May 2018*

(Please note : We aim to provide correct and reliable information about upcoming events, but cannot accept responsibility for the text of announcements or the bona fides of event organizers. Please feel free to contact us if you notice incorrect or misleading information and we will attempt to correct it.)

MINING NEWS

Indian Coal Production

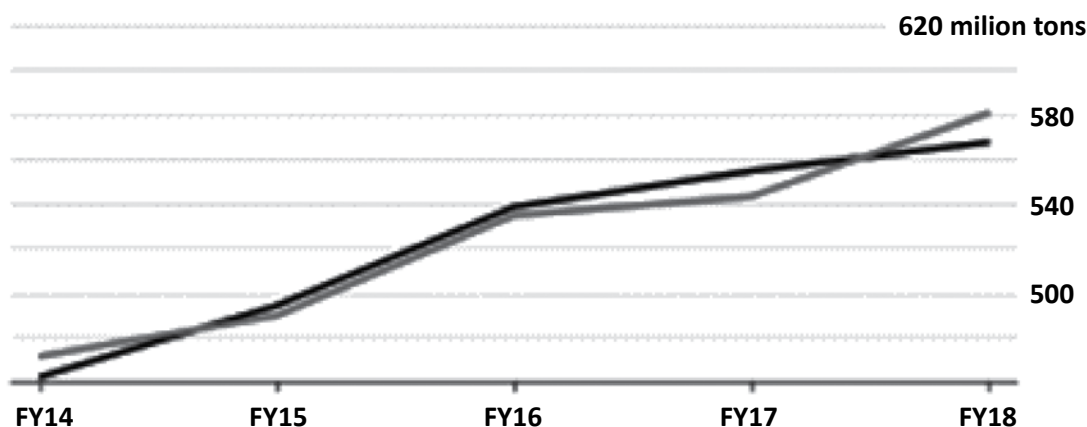
- Coal production by Coal India Limited increased in the year 2017-18 by 9% as

production day producing 3.1 te, with contributions from CCL (0.723 Mt); SECL (0.638 Mt) and MCL (0.664 Mt).

Record Year

Coal India Output and shipment hit new highs

■ Output ■ Shipment



Source : Coal India

it produced 567.4 MT (highest ever) of coal compared to 554.1 MT in 2016-17. The company made a new record of total supply of coal to the consumers, which rose to 580.3 Mt, compared to 543.3 MT in 2016-17.

The supply of coal to Non power sector in 2017-18 is also increased by 7.1% and reached 126.3 Mt (highest ever), against last year's record of 117.9 Mt. The company achieved a record of loading 344.5 rakes in a day on 28th March and 31st March 2018. The Company for the first time has also achieved 102.3% of its CAPEX target. 31.03.2018 was CIL's highest coal

During 2017-18, five new projects with an annual capacity of 24.85 MTY and a sanctioned capital of Rs. 4427.22 crores were approved by CIL and its subsidiaries, while five projects with annual capacity 23.36 MTY per annum with a sanctioned capital of Rs. 1553.76 crores were completed during 2017-18 till Feb' 18.

- Singereni Collieries Company Ltd produced 62 Mte of coal in 2017-18 with a total dispatch of 64.6 Mte. The supply growth is 6.2 compared to the achievement of 60.8 Mte in 2016-17. The company is planning to planning to open 10 new projects in the 2018-19 to achieve its target of 66Mte. The

company recorded a turnover of Rs. 22,667 crore in 2017-18, a 27.8% jump over last year's figure of Rs 17,743 crore.

- Singareni Collieries Company Limited (SCCL) registered a whopping 203 per cent growth in profit, earning about Rs 1,200 crore in the financial year 2017-18. The coal mining company, which is also into power production, bettered its performance over the previous financial year, both in case of coal dispatch and burden removal. Robust performance of Singareni Thermal Power Plant (STPP) situated at Jaipur in Telangana also contributed to its growth.

Around the World.....

Martin Engineering and BossTek (formerly Dust Control Technology) provides dust controlling systems to help mine operators safeguard the health of individuals through the use of field-proven equipment to minimise fine particulates. As per new OSHA Rules the respirable crystalline silica (RCS) dust emission must be kept controlled to keep the permissible exposure level PEL) under 25µg/m³.

OSHA provides guidelines regarding methods of compliance, advising companies to :

- **Use engineering controls** – these include isolating dust in sealed chute systems and dust collectors, and/or using water-based atomised suppression systems.
- **Provide respirators** – compliance cannot be achieved by respirators alone, but respirators must be provided for use in areas where engineering controls cannot adequately limit exposure.
- **Limit worker access to high exposure areas** – limit access to areas where workers could be exposed to dust concentrations above the PEL.

- **Develop a written exposure control plan** – have it available along with monitoring results.
- **Offer medical exams to highly exposed workers** – review the regulation for compliance details.
- **Train workers on silica risks and how to limit exposures** – workers should be able to identify to OSHA inspectors the dust control supervisor and the compliance details when asked.

Non-compliance could result in fines, process disruptions and legal action by federal or state agencies or workers.

Water Economic Road Dust Suppression.....

Haul road dust suppression by water spraying is one of the cost centers in surface mines because of increasing water and fuel bills. There are many methods of dust mitigation and a mine must select the best for it through careful decision making.

A gold mine in Nevada, US, switched from a water and magnesium chloride treatment to an organic binder program. SUEZ's DusTreat* program was used on 11.3km of haul roads and reduced water use for dust suppression by 90% or 416,000m³ of water over a seven-month period. This application also reduced CO₂ emissions from fuel consumption by nearly 450t, the equivalent to the CO₂ emissions of over 165 average cars on US roads, during that period.

The technology consists of highly concentrated blends of wetting agents formulated to increase the ability of water to adhere to and spread over dust particles, and are specially designed to wet very hydrophobic substrates, such as coal. A major benefit of these products is that they do not contain nonylphenoethoxylates (NPEs).

Another example is road-dust control binding agents, specially formulated to agglomerate smaller particles in the road and overall stabilize the wear course. These dust binders incorporate wetting agents to improve spread-wetting of the binder with-in the road wear course material.

Environmental concerns are paramount when extracting, transporting and storing coal. Despite its high recovery rates and mechanical advantages, open-pit mining can potentially cause more damage to the surrounding environment than underground mining.

At an open-pit coal mine in Wyoming, for example, switching to a wetting agent program

from a water-and-magnesium chloride treatment on a pit area of over 28ha reduced water use for dust suppression by 350 million liters (a 38% reduction) over a nine-month period. This is the water consumption equivalent of more than 740 average US households during that period.

These water savings were especially significant in that the program helped to keep the average daily water usage in check even as outside temperatures rose, which had been an issue prior to implementing the solution. Further, the mine was able to realize substantial savings through this solution with decreased water use and water-truck operating costs during this time period♦



Combating Dusts at Source

MY ASSOCIATION WITH MGMI

Prof (Dr) Subir Kumar Mukhopadhyay, Former IIT Kgp

At the outset, let me admit the fact with assertion that I am not good at all in non-technical essay writing and therefore I beg readers pardon. Septuagenarian member of the great Institute, The Mining, Geological & Metallurgical Institute of India (MGMI), the oldest professional Institute of its kind in Asia.

The Institute, MGMI got established in the auspicious year 1906, the year in which Mahatma Gandhi coined the term “Satyagraha” (sourced Wikipedia). Nevertheless, the year has also witnessed several Geological catastrophies.

However, in the following lines, I narrate as to how I got acquainted and associated to this great professional Institute, MGMI. I was a student of Mining Engineering – during the latter half of 1960’s and in our coal mining classes taught by Prof. S.S. Saluja and Prof. RD Lama. We often were asked to refer the papers published in the proceedings of symposium on ‘Thick Seam Mining’ (1962/64) - perhaps organized by MGMI. In the articles after the name of the authors “MGMI” was written. Thus from late 1960s, I became curious about the Institute MGMI and its activities, but I could not make it until 1971.

After graduation, I joined as a PGPT at Nigha Colliery, Asansol. One fine day, in 1971, I received two letters by post, coincidentally simultaneously on the same day – one from HOD, Mining Engineering, BHU, Prof. SS Saluja and another from Director, Practical

Training (DPT), Mr RT Deshmukh that I would be awarded Robertson Medal by MGMI. It was a matter of great excitement for me, in the sense that at last I would be able to attend a function of the Institute, which I was longing to visit for a long time. More so, because the technical articles published in Transactions were of such high standard that these were referred by us, the PGPTs and others who were preparing for their Managership Examinations conducted by the DGMS. By the way, in those days, the standard of publications of MGMI were comparable to the publications of ‘Science and Art of Mining’, UK.

However, on 12th February, 1971, as per the letter, I went to Krishnan Hall of GSI, along with my parents with a thrilling sensation of happiness and exhilaration to receive the award which was given away by Mr GS Misra, President, MGMI. I remember that Mr RP Bhatnagar was the Hony. Secretary. Thus, it was the day of 65th AGM of MGMI, I got myself acquainted to MGMI. Thereafter, with the passage of time nearly about half a century, my acquaintance with MGMI got converted to an adorable association by participating in various activities of MGMI which is still continuing. I consider my association with MGMI as a “great reward” in my life that a person can get from a professional Institute. So as a consequence, much of my memory lane is occupied by a broad swathe, the MGMI, which I protect and care lovingly. ♦

100 YEARS AGO

From the Presidential Address of Lt Col FG Hughes

The then President of the Institute

Gentlemen,

It was not without some misgivings that I received the proposal of Mr Adams that I should stand as a candidate for the Presidential Chair of this Institute. When I look at the list of eminent Mining Engineers and Geologists who have filled this position, I realize that the honour you have done me in selecting me as your President is a great one, and I feel that it devolves on me to do the very best I can for the Institute during my year of office.

Our Society has, as indeed have all similar bodies, passed through a period of stress and strain during the last few years owing to this lamentable war which has now for over three years been convulsing the world, the end of which is not even yet in sight.

I feel convinced, however, that our Institute fills a very real want, and performs most useful functions in the education of its members in all technical matters connected with their profession.

In addition, it is useful to the financiers, managing agents and others connected, directly or indirectly, with the Mining and Metallurgical industries of the country, by encouraging, through its meetings and publications, an active and intelligent interest in these ventures.

Whilst this war has inflicted untold misery and suffering on the whole civilized world and is, indeed, the most terrible scourge which humanity has ever endured, we cannot but perceive its beneficial effects in the stimulus it has given to the industries of India.

We are at last beginning to realize that many of the raw materials produced in such lavish quantities in this land can be converted here into the finished product. The mineral ores and metals extracted from the earth are the raw materials in which we, as members of this Institution, are interested.

The extraction of these is the work of the mining man; but it is to the Metallurgist and Chemist that we must look to have these raw materials turned to useful account. It is to this side of the question that I should like to-day to direct your attention more particularly. You have already had many Presidents, much better qualified than I am, to discuss the subject of mining, and I feel sure that I shall serve a more useful purpose by confining this address almost entirely to a description of certain metallurgical processes particularly relating to the precious metals – gold, silver, platinum, etc.

As regards the metallurgy of iron which is rapidly attaining to the importance it deserves, I do not intend to say much.

It is an undisputed fact that the war has accorded to our steel and iron works that measure of protection which was needed to galvanize them into really flourishing industries. I will not venture into the thorny paths of politics or into considering the pros and cons of free trade and protection, but will only remark that I sincerely hope that the encouragement which has been afforded to Indian industries by the war may not be allowed to slacken after peace is declared, and that the good work started by

Sir Thomas Holland and his colleagues may bear permanent fruit by enabling India to utilize and manufacture herself the raw materials which she produces in such profusion.

As all metallurgy is dependent on an ample supply of fuel, I cannot pass over that important industry – coalmining – without saying a few words on the subject.

The output of coal has been steadily increasing in India, but the demand is constantly exceeding the supply, and it is to the members of this Institute connected with coal-mining that the metallurgist must look for the fuel which is the breath of his existence.

One of the great aims of this Institute is the improvement of methods of mining and coal extraction, and the conservation of our great and valuable supplies of fuel. I am sure that the work done by certain members of our Institute has already borne fruit in improving mining methods, and thereby, preventing waste, and increasing production.

There is one product however, which is essential to the metallurgist and which, I sincerely hope, will occupy more and more the attention of our coal magnates. I refer to coke. Up till quite lately little coke was produced in India under scientific methods.

I well recollect when, at a meeting of this Institution in 1909, Mr TH Ward showed us what was, I believe, the first bye-product recovery coke-oven erected in India. Let us hope that the time will soon come when the larger proportion of coke produced in the collieries will be from ovens of this description.

The waste of burning coke in open kilns and allowing all the valuable products of distillation to disappear into the air has constantly been animadverted on by members of this Institute.

It is questionable whether a matter of such prime importance should not become a subject of legislation, but let us hope that those responsible for the outturn of coke will see that it is to their own advantage not only to produce a superior article but to conserve the valuable bye-products, tar, sulphate of ammonia, etc. and utilize the gas produced for power purposes, thus saving coal.

From the point of view of the metallurgist the production of a good class of coke is vital. At the present moment in the Calcutta Mint we have to use a certain amount of English coke owing to the difficulty of procuring a high enough grade locally. Yet I feel convinced from my knowledge of Indian coals that there are seams in the Jharia and Giridih fields, if not in other localities, which could produce a fuel of almost equal quality, if sufficient care were taken in the selection of dust used for its manufacture. The price which such a product could demand at present in special industries where melting of metals is concerned would warrant some attempt being made to produce it.

I will not pass on to the main subject of my address the metallurgy of the non-ferrous metals, particularly the precious metals – gold and silver. My position as Deputy Assay Master of the Calcutta Mint brings me into more intimate connection with the precious metals than with any others, though we are brought into more or less close contact with all the ordinary non-ferrous metals, such as copper, nickel, zinc, tin, lead etc., which are used as alloys for coinage and in processes of refining the precious metals.

It is my intention to-day to give you a description of the different methods of refining gold and silver bullion whilst considering their practical application to India. ♦

MEMBERS WHOM WE LOST

Utpal Kumar Basu



Utpal Kumar Basu left this material world on 27th December 2017 with heartfelt grief MGMI Members wishes his soul to rest in peace in his heavenly aboard. May God give strength to his bereaved family members and friends

to bear the loss. Late Basu was a former Director, GSI, born in September 1938. He obtained Master's Degree in Geology from Patna University in 1958. In addition to the assessment work, in which late Basu remained involved throughout his professional carrier, he carried out Geological Mapping and Exploration for Coal in various Coalfields, like Jharia, North Karanpura, Borjan etc. He became Director in May 1992 and took charge of Assessment Division of Coal wing of GSI. He superannuated from service January in 1996. Late Basu was a very good sportsman and was a University Blue and represented GSI team in football. He was loved by all for his pleasing personality.

TR Jayaraman

TR Jayaraman (5123-LM) passed away on 26th January 2018. With heartfelt grief MGMI Members wishes his soul to rest in peace in his heavenly aboard. May God give strength to his bereaved family members and friends to bear the loss.

Late Jayaraman was a member of MGMI since 1987-88. He was former CMD of South Eastern Coalfields Ltd. He was a frequent contributor to the then MGMI Newsletter.

Prof. (Dr) Ganpat Singh Roonwal

Prof. (Dr) Ganpat Singh Roonwal (7479 - LM.) has left for the heavenly abode on the 23rd February 2018. MGMI family is deeply shocked to know the sad demise of the beloved Life Member and convey deep and heartfelt condolences and pray to God to give the members of the family mental strength to bear this loss. Late Roonwal was born on 12th March 1940. He did MSc and PhD in Geo Sciences. He was Prof. in Geo Sciences in the University of Delhi and retired as Director Geo Sciences. ♦

ATTENTION MEMBERS

Have you changed your job? Got promotion or achieved any new height? Changed your address of correspondence? Or changed your land telephone and/or cell phone numbers? Or acquired new email address? If so, please let us know to update our record and make an insertion in the section 'News about Members' of MGMI News Journal.

LIST OF MGMI SPECIAL PUBLICATIONS

Name of Publication	Year	US\$	Rs
Progress of the Mineral Industry* (Golden Jubilee Vol 1906-1956)	1956	12	60
Dr DN Wadia Commemorative Volume*	1965	15	100
Small Scale Mining in India and abroad*	1991	45	450
New Finds of Coal In India–Resource potential and Mining Possibilities	1993	30	300
Computer Applications in Mineral Industry	1993	40	400
Indian Mining Directory (4 th Edition)*	1993	40	400
Asian Mining 1993	1993	85	850
Mine Productivity & Technology	1994	75	500
Maintenance Management for Mining Machinery*	1995	60	600
High Production Technology for underground Mines*	1996	50	500
Mineral Industry Development in India–Issues, Perspective & Policy	1996	20	200
Disaster Prevention Management for Coal Mines, Vol I	1996	50	500
Disaster Prevention Management for Coal Mines, Vol II	1996	50	500
Business and Investment opportunities in Mining Industries (BIMI '96)*	1996	40	400
Indian Mining Directory (5 th Edition)	1996	50	500
Information Technology in Mineral Industry (MGMIT'97)*	1997	50	500
Technological Advances in Opencast Mining (Opencast '98)*	1998	80	800
Management of Mining Machinery (MMM 1999)	1999	80	800
Mining & Marketing of Minerals (MMM 2000)	2000	80	800
Mechanisation and Automation in Mineral Industry (MAMI 2001)	2001	80	800
Mineral Industry: Issues on Economics, Environment and Technology (MEET 2002)	2002	80	800
Development of Indian Mineral Industry Looking Ahead (DIMI 2003)	2003	20	200
Emerging Challenges in Mining Industry (ECMI 2003)	2003	50	500
Future of Indian Mineral Industry (FIMI 2004)	2004	80	800
Bridging the Demand Supply Gap in Indian Coal Industry*	2005	30	300
Asian Mining Towards A New Resurgence (Vol I & II)	2006	175	2400
Indian Mining Directory (6 th Edition)	2006	60	600
Turnaround Stories of Coal Companies and Future Strategies	2006	20	200
Reprints of Holland Memorial Lecture	2006	40	400
Glimpses from Transactions	2006	30	300
Coal Beneficiation & Development of Coal Derivatives*	2007	40	400
2 nd Asian Mining Congress* (Vol I & II)	2008	200	2000
Glimpses of Hundred years of MGMI of India (1906–2006)	2008	50	500
3 rd Asian Mining Congress (Vol I & II)	2010	160	2000
4 th Asian Mining Congress	2012	100	1000
5 th Asian Mining Congress 2014 (CD available)	2014	100	1000
6 th Asian Mining Congress 2016 (Pen Drive available)	2016	100	1000
7 th Asian Mining Congress 2017 (Pen Drive available)	2017	100	1000

*out of stock

For Booking

Contact : **SHRI SANJIT BANERJEE**

Mobile : 98312 00099, email-id : sanjitbanerjee12@gmail.com

TRANSIT HOUSE AT MGMI, KOLKATA

THE MINING, GEOLOGICAL & METALLURGICAL INSTITUTE OF INDIA

GN – 38/4, SECTOR – V, SALT LAKE, KOLKATA – 700091

Phones : 2357-3482/3987 Telefax : 2357-3482

Email : mgmsecretary@gmail.com, mgmihonysecretary@gmail.com

Website : www.mgmiindia.in

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Room rent is as follows :

Accommodation	AC Room
Single occupancy	Rs. 1,500/-
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2. 50% discount will be offered to MGMI member for self occupancy only.
3. Full tariff will be applicable for the nominee of MGMI member.
4. Full tariff for the employees of the Corporate Member or Patron Member.
5. MGMI Council Member can stay up to 02 (two) nights free of cost (only lodging) for one day official work of MGMI. Stay may be extended depending on the extension of MGMI official work.
6. 100% advance has to be deposited for confirmation of block booking (three or more rooms for two or more days.)
7. Caution money @ Rs. 500/- per day, per room has to be deposited along with room rent in advance. This will be refunded in full or part thereof depending on the damage caused by the Guest.
8. **Cancellation of confirmed booking**
 - a. Period Prior to date of Occupancy
 - b. Cancellation fee to be deducted from advance
 - c. Cancellation before Seven days : 5%
 - d. Cancellation before Three days : 10%
 - e. Cancellation before One day : 25%
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10. **Check-out time : 11.00 a.m.**



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