

Estd. 1920

The Institution of Engineers (India)

BAREILLY LOCAL CENTRE

ENGINEERS' BHAWAN

44, Camphor Estate Colony, Rampur Road, C.B. Ganj, Bareilly (U.P.) - 243502

"101 Years of Relentless Journey Towards Engineering Advancement for Nation Building"

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NEWS BULLETIN



FROM THE CHAIRMAN'S DESK

I am extremely exhilarated that the 4th quarterly News letter of Bareilly Local Centre IE(I) is being Published. At the outset, I extend my greetings & best wishes to all my fellow engineers. It is a proud moment for the centre that regular News Letters are being published with the help of Er. Subhash Mehra, Chief Editor of the centre.

I expect maximum cooperation of all committee members in smooth conducting the various technical activities like Seminar, Expert Lectures, Workshops, Tech Tazurwa, Technical Quizzes & also conducting the AMIE examination which is the Flagship of IE (I) for a long time. Enhancing the technical knowledge & soft skills of budding Engineers (Students) through seminars etc improve their quality and refined their personality. This would help in their placements and carve their path for success. Special care is being given by the centre to the young Engineers for improving their skills.

I would also like to extend my sincere thanks to Shri Dev Murti Ji, Chairman SRMS Trust Institutions Bareilly and Shri Rajendra Agrawal, Chairman, Rajshree Group of Institutions, Bareilly for organising All India Seminars and conferences in collaboration with Institution of Engineers (India). I further thank Rajshree Group of Institutions, Bareilly for accepting my request for becoming Institutional member of IE (India).

In the end, I would invite suggestions from all our corporate / Executive members or strengthening our efforts in the mission of IE (India). My congratulations to Er. V. B. Singh, FIE, Council Member for his nomination as Vice President of IEI

I pray Almighty for everyone's good health and a great success in the time to come.



Lecture on "Information Security & Data Analytics" at 3.3.2022 at

Future Institute of Engineering & Technology, Bareilly



A Technical Lecture Meeting was organized at The Institution of Engineers (India), Bareilly Local Centre on 3.03.2022 on the topic "Information Security & Data analytics". The speaker was Mr. ANAND PRAKASH, former Gobal Head- Wipro Technologies, CEO & Co Founder (Farm for Full Potential LLP), speaker writer Advisor Mentor Implementer / Investor.

He explained that Data analytics is the process of examining datasets to draw conclusions about the information they contain. Valuable insights can be derived from uncovering and examining data patterns. Scientists categorize data as descriptive, diagnostic, predictive, or prescriptive to help them utilize data in innovative ways. It can help companies better understand customer purchasing habits, measure the efficacy of advertising campaigns, discover new markets, and develop new products.

Cyber security, the other parent of cyber analytics or security analytics is the practice of defending digital assets against malicious attacks. This discipline employs various techniques, strategies, processes, and tools to diagnose, predict, and prevent unauthorized access of networks, systems.

The fields of data analytics and cyber security are relatively new disciplines, and as such, academia has not settled on a standard nomenclature for related degree programs. Depending on the institution, a cyber analytics degree might be described as any of the following:

- Cyber analytics
- Cyber security analytics
- Security analytics
- Information security analytics
- Data analytics for cyber security
- Big data security analytics

Like other college degrees, students can earn a bachelor's degree or a master's degree in cyber analytics, security analytics, or information security analytics. Doctorate level students can earn a Ph.D. in cyber security with a focus on data analytics.

A degree in cyber analytics will equip students with skills in modeling big data, data analytics, and statistical learning methods. Data can be used to uncover dependencies, weaknesses, risks, and identify corrective actions. Graduates will have the ability to combine big data science with threat intelligence to detect, analyze, and prevent targeted attacks from external hackers as well as insider threats from rogue or careless employees.



It is the application of big data analytics, rather than computer science or programming, that sets cyber analytics apart from traditional cyber security methodologies. To be sure, both disciplines examine the same exploits, vulnerabilities, threats, and attack methods. Still, for a cyber data scientist, these challenges are viewed through the lens of big data security analytics. Er. Sudhir Gupta, Chairman, Dr. Hemant Yadav and Er. K.B. Agarwal, Founder Chairman of the Institution also expressed their views on the topic.

The Lecture Meeting concluded with a vote of thanks by Dr. Hemant Yadav, MIE Director, Future Institute, Bareilly.



Tech Talk Contest -2K22 on 4.3.2022 at

Rajshree Institute of Management& Technology, Bareilly



Tech Talk contest was organized at Rajshree Institute of Management Technology, Bareilly.

Shri Rajendra Kumar Agrawal, Chairman, Rajeshree Institute, Bareilly was the Chief Guest, others eminent engineers and students were welcomed by Er. Sudhir Gupta, FIE, Chairman.

Tech Talk Contest to initiate the interaction between the concerned persons of various Institutes and Engineering Colleges at every level, it was thought that some Technical activity should be organized so as to provide the opportunity to assemble students. This idea of organizing TECH-TALK with an aim to empower a student with an apt skill for professional growth and to design his career in structured manner especially in the area of developing and instilling confidence to stand on the dais and presenting himself to the relevant forum.

There were 21 Students from various Engineering Colleges are situated in Bareilly & Moradabad Commissioneries. As such there is no interaction & one to one contact amongst





their students, to enhance interaction **Tech Talk Contest-2k22** was held at **Rajshree Institute of Management& Technology, Bareilly.** In this round following Students participated:

Sn. Students Name

- 1 Smriti Singh
- 2 Bhuwanesh Singh
- 3 Arman Khan
- 4 Devansh Agrawal
- 5 Avanish Kumar
- 6 Shrishti Saxena
- 7 Krishna Gupta
- 8 Somya Sharma
- 9 Ansh Mourya
- 10 Harsh Babu Singh
- 11 Amara Ansari
- 12 Ruchika Gupta
- 13 Utkash Tiwari
- 14 Shubham Sharma
- 15 Aadita Arora
- 16 Harsh Raj
- 17 Mayank Pratap Singh

Institute Name

Moradabad Institute of Technology, Moradabad MJPR University, Bareilly MJPR University, Bareilly Inversit University, Bareilly MJPR University, Bareilly Inversit University, Bareilly ANA College of Engineering & Management Studies Rajshree Group of Institute & Technology, Bareilly Rajshree Group of Institute & Technology, Bareilly Rajshree Group of Institute & Technology, Bareilly Shri Siddhi Vinayak Institute of Technology, Bareilly Shri Siddhi Vinayak Institute of Technology, Bareilly Shri Siddhi Vinayak Institute of Technology, Bareilly SRMS Bareilly RBMI, Bareilly SRMSCET, Bareilly Moradabad Institute of Technology, Moradabad



18 Shivansh Kumar

19 Shekhar Sharma

20 Abhishek Singh

21 Rahul Mehta

Moradabad Institute of Technology, Moradabad RBMI, Bareilly RBMI, Bareilly Rajshree Group of Institute



A jury of six judges which finalised top three presentations from each category based on predetermined parameters. As members:-

- Er. B. S. Bajwa, FIE
- Er. Yatish Vats, FIE
- Er. M. K. Agrawal, FIE
- Er. Navneet Agrawal, MIE
- Er. A. K. Jain, MIE
- Er. Anand Prakash

FOLLOWING STUDENTS WERE DECLARED WINNERS

- Ms Shrishti Saxena from Invertis University, Bareilly First Prize (Rs. 3,000/-)
- Mr Vaibhav from MJPR University Second Prize (Rs. 2,000/-)
- 3. Mr Shubham Sharma from SRMS, Bareilly Third Prize (Rs. 1,000/-)

From Polytechnic Colleges

- 1. Mr Rahul Mehta from SSVGI
- First Prize (Rs. 2,000/-)
- Mr Utkarsh Tiwari from Rajeshree Institute
 Second Prize (Rs. 1,000/-)

Er. M. K. Agrawal, FIE, FIE, Honorary Secretary of Bareilly local centre gave Vote of thanks to all speakers and all participants, for sparing their valuable time and making the Tech Talk contest- 2022 a grand success.

World Engineering Day – 2022 on 4th March the theme "Build Back Wiser Engineering the Future" at

Rajshree Institute of Management& Technology, Bareilly



World Engineering Day – 2022 on the theme "Build Back Wiser Engineering the Future" was organized at the Rajshree Institute of Management& Technology, Bareilly.

It was started with welcome address by Er. Sudhir Gupta FIE, Chairman IEI, Bareilly Local Centre & introduced the theme as received from Head Quarter.

Dr. Ghanshyam Khandelwal, Chairman & Managing Director, B.L.Agro Industries Ltd., Bareilly was the Chief Guest & key speaker Er. NEERAJ RAJESH, Joint General Manager, Urea, IFFCO, Aonla, Bareilly were welcomed by Er. Sudhir Gupta, FIE, Chairman who elaborated that The day offers an opportunity to highlight Engineers and Engineering's achievements in our modern world and improve public understanding of how engineering and technology are central to modern life and for sustainable development.



The proceeding of World Engineering Day for



Sustainable Development was conducted by Dr. Ravish Agrawal, Administrator, Rajshree Institute of Management& Technology, Bareilly.

Technical Seminar started with the presentation by:



a. Er. Anand Prakash, CEO, Farm for full Potential LLP, Past Global Head, WIPRO Ltd. delivered his views on the topic "Build Back Wiser Engineering the Future'. Engineers will be key to designing and managing systems and technologies to beat climate change, strengthen our health systems, and bolster supply chains. Mitigation and adaptation against climate change cannot be successful without engineers at the table.



By providing unbiased technical advice to decision makers and the public, motivating change through our innovations and communicating the consequences of inaction, engineers have the ability to instigate change, motivate and encourage our communities to seek a better future.

b. Mr. Kaushlendra Singh Sisodiya, CEO, Uniconverge Technology & The IoT Academy delivered his presentation

on topic wherein, he explained Engineering and all engineers are responsible for implementing the energy transition and to shape a net-zero carbon world. This mission is reflected in Engineers Australia's updated Climate Change Position Statement. It calls on governments, investors, the private sector and the wider community to work with the engineering profession to accelerate engineering innovation for a swift transition to a sustainable economy.



The statement also reflects the consistent feedback we received that Engineers Australia should support action at pace and scale on climate change and be accessible and no more complex than necessary.

c. Mr. Kamlesh Verma, Vice President HR & Vice President Advisor (Alps Industries, Noida). He delivered presentation on the topic. He explained that while many construction companies claim substantial productivity and profit gains due to the utilization of lean construction principles, it is a challenge to teach these principles in a class room setting due to limited literature on pedagogy in lean construction.





While class lecture is usually the main method used in course teaching, employing a combination of teaching methods in the classroom will accommodate different students' learning styles, resulting in higher achievement and satisfaction. This paper reports an open forum teaching method where students interactively share ideas and actively learn from class discussions, case studies, and required readings. The success behind this pedagogical approach largely depends on student engagement and motivation. The research procedures used in this paper include ethnography, action research, and a survey. The class instructor/first author is running this experimental method, collecting data, analyzing the findings, and introducing improvements.

The purpose of employing the open forum method is to lay the foundation of a new pedagogy in teaching lean construction. Through this teaching method we hope to create a community of inquiry and learning among students. It is expected that this teaching method will facilitate a lean understanding among construction students while preparing them to enter the workforce with a solid theoretical understanding of lean and its transferability to construction processes.

Er. SC Sundrani, FIE, Er. B. S. Bajwa, FIE Er. Navneet Agrawal, MIE, Er. A.K. Jain, MIE and others also shared their views and experience on the topic.

Er. M. K. Agrawal, FIE, FIE, Honorary Secretary of Bareilly local centre gave Vote of thanks to all speakers and all participants, for sparing their valuable time and making the World Engineering Day 2022 a grand success.

A Lecture on "Internet of Things, AI & Machine Learning" on 5.3.2022 at SRMS College of Engineering, Technology & Research, Bareilly (Institutional Member)

A Technical Lecture Meeting was organized at The Institution of Engineers (India), Bareilly Local Centre on 5.03.2022 on the topic "Internet of Things, AI & Machine Learning". The speaker was Mr. Kaushlendra Singh Sisodiya, CEO, Uniconverge Technology & The IoT Academy.

Er. Sudhir Gupta, FIE, Chairman, IEI BLC welcome to all

participants and tells us that The Internet of things describes physical objects that are embedded with sensors, processing ability, software, and other technologies that connect and exchange data with other devices and systems over the Internet or other communications networks.



Mr. Kaushlendra Singh Sisodiya, CEO, Uniconverge Technology, explained that The Internet of Things (IoT) is the ability to have devices communicate with one another via the internet or other networks, remotely tracking information to provide feedback to assist with decision making for commercial, industrial and residential purposes. This is commonly done using sensors connecting to a back-to-base system.

Some common day-to-day examples could be:



- Temperatures in refrigeration or food heating units in the food and beverage industry.
- Assistance with the control of temperature and humidity levels.
- Detection of gas and dust levels.
- Monitoring of water levels and herd locations for



agricultural purposes.

• Different applications in the automotive, aviation and nautical sectors such as the sensing of tyre pressures for trucking fleets.

High quality, cost effective IoT components

Printed Circuit Boards (PCB) are a core component of many IoT assemblies. CNS Precision Assembly leans on its vastly experienced and qualified personnel to provide high quality products on time, every time.

Getting it right is important, and we have invested heavily in best-in-class machinery that ensures we delivery top quality products to our clients from our Sydney facility.

Dr. Prabhaker Gupta and Er. Subhash Mehra, FIE IP Chairman of the Institution also expressed their views on the topic.

The Lecture Meeting concluded with a vote of thanks by Er M K Agrawal, FIE, Honorary Secretary, IEI, Bareilly Local Centre.

World Water Day- 2022 on 22nd March on 'Groundwater: Making The Invisible Visible' at Engineers' Bhawan, Bareilly



'World Water Day' Scheduled on 22nd March 2022 was celebrated as Seminar on the topic of 'Groundwater: Making the Invisible Visible''.

The proceeding of World Water Day was conducted by Er. Balwinder Singh Bajwa, Pasy Honorary Secretary, Bareilly Local Centre, Bareilly.

It was started with the Welcome Address by Er. Sudhir Gupta, Chairman IEI, Bareilly Local Centre.

Er. Subhash Mehra, FIE, IP Chairman, IEI, Bareilly Local

Centre introduced the theme as received from Head Quarter.

Speaking on the subject the Chairman, Er. Sudhir Gupta, suggested that the theme for World Water Day 2022 is groundwater, which is often over looked and even less understood, however, groundwater is a key resource for our planet so it must be protected from pollution and exploitation. As a result of climate change, groundwater is becoming more and more critical.



A galaxy of speakers was present to express their views during the Seminar organized on 22nd March, 2022 at 'Engineer' Bhawan' as listed below:

Er. Suresh Chandra Sundrani, FIE, Past Chairman, IEI, Bareilly who expressed that the theme 'Groundwater: Making the Invisible Visible'. The growth of water demand due to extensive human activity, combined with the effects of global warming, has had a direct impact on the groundwater recharge and its depletion in most parts of the world. The major contributor to groundwater



depletion over the past decades, however, is not climate change, but the increase of water usage for potable use,



irrigation and other human activities.

The water infrastructure of any city requires sustainable management. This infrastructure needs to manage growing water demands, whilst also preserving the environmental conditions of the natural water resources.



Dr. Pankaj Sharma, FIE, IP Honorary Secretary, IEI, Bareilly, who expressed that the theme of World Water Day 2021 is Groundwater provides almost half of all drinking water worldwide, around 40% of the water used in irrigation and about one third of the supply required for industry. Not only does groundwater sustain ecosystems, it is also an important factor in climate change adaption. With the rise in water scarcity and the decrease in the availability of surface water, there is increased reliance and pressure on groundwater.

Er. Z N Khan, FIE (Retd. Jal Sansthan, Uttrakhand) described on this topic that Groundwater is a vital resource that provides almost half of all drinking water worldwide, about 40% of water for irrigated agriculture and about 1/3 of water required for industry. It sustains ecosystems, maintains the baseflow of rivers and prevents land subsidence and seawater intrusion. Groundwater is an important part of climate change adaptation process and is often a solution for people without access to safe water.

Er. K. B. Agrawal, FIE, Er. M. K. Agrawal, FIE, Er. (Dr.) Chhavi Sharma, AMIE also shared their views and experiences on the theme.

Er. M. K. Agrawal, FIE, Honorary Secretary, IEI, Bareilly gave Vote of thanks to all speakers and all participants, for sparing their valuable time and making the World Water Day 2022 a grand success.

Holi Milan Samaroh – 2022 on 22nd March at Engineers' Bhawan, Bareilly

Since inception of Bareilly Local Centre from December -2011 to till date, no family get-to-gather was organized.

It was ,therefore, few members mooted the idea to hold a rendezvous to take the opportunity of holi celebration this year , to visit newly constructed 'Engineers' Bhawan' along with family members to do "Dhamal".

All participants were exuberated during the course of Holi Milan Samaroh and enjoyed to the hilt. All members liked the games played wherein Er. Chahvi Sharma was declared winner.

The celebration ended with exotic dinner. Every one parted with a vow to continue this kind of congregation in the years to come.

The glimpses of 'Holi Milan Samaroh-2022'













National Conference on "Multidisciplinary Research in Engineering,
Management & Medical Sciences (ICMREMMS-2022)" on 25th & 26th March,
2025 at Rajshree Institute of Management & Technology, Bareilly

The National Conference was organized by The Institution of Engineers (India), Bareilly Local Centre in association with Rajshree Institute of Management & Technology, Bareilly on 25th & 26th March, 2022.

National Conference on the theme "Multidisciplinary Research in Engineering, Management & Medical Sciences (ICMREMMS-2022)" was organized at Rajshree



Institute of Management & Technology, Bareilly, for two days. Total 50 Engineers & 115 Students attended the Conference.



The Conference was inaugurated by garlanding the portrait of 'Saraswati Devi' and lighting of lamp by eminent Engineers, who presided over the session and other dignitaries.



The Conference Started with welcome address by Dr. Pankaj Sharma, FIE, IP Honorary Secretary, Bareilly Local Centre, who presided the Conference that Engineering is no longer limited to working in a single domain; nowadays





engineers increasingly work in multidisciplinary fields. After this course you will be able to carry out all stages of multidisciplinary research using appropriate research methods.

Shri Chandra Mohan Garg, IAS, CDO, Bareilly was the Chief Guest for this Conference welcomed by the Er. Sudhir Gupta, FIE, Chairman, Bareilly Local Centre, Shri Rajendra Kumar Agarwal, Chairman, Rajshree Group, Bareilly and other dignitaries.

Dr. Pankaj Sharma, Director R & D, Rajshree Institute, Bareilly introduced the conference and field of studies of the RIMT. Dr. Saket Agarwal, Dean (Academics), Rajshree Institute, Bareilly put the relevance of the Seminar to the august gathering.



RIMT & IEI, Bareilly Local Centre's **'SOUVENIR'** was released by the Chief Guest, Chairman and others dignitaries.

INVITED TALK & TECHNICAL SESSIONS

a. Prof. Piyush Kulshreshtha, gave his lectire on the topic 'Multidisciplinary Research in Engineering'. He Explained that Agile methods, initially used by cross-functional teams in software development projects, can also

facilitate teamwork in collaborative research projects. For this, project management-related issues need to be addressed, including the challenge of finding practical means for coordinating scientific collaboration, while garnering commitment from all participants. This article explores the utilisation of agile methods by a semi-distributed scientific team, for coordinating a multidisciplinary research project. It examines how these methods can contribute to task coordination in scientific research and highlights key factors for successful adoption of the agile framework in collaborative research projects.



- b. Dr. Mohammad Azam, gave their presented on the topic '2D Material: An Emerging Technology'. Wherein, they explained that 2D materials (2Ds) have attracted substantial attention in the transistor community. While rapid development on 2D transistors has been gained in present era, the prospect of 2D electronics is still under discussion. Moreover, the 2Ds represent a promising alternative for radio frequency (RF) flexible electronics since they effect and attractive blend of mechanical and electrical (reasonable mobility) properties.
- c. Ms Sheily Tripathi, Assistant Professor, he presented on the topic. She explained that India is an agricultural-based country where nearly one fifth is producing gross domestic products. So the Government of India has launched lots of rural development programmes to increase the growth of agricultural. Women have the subordinate status and position in the gender relationship, and therefore experience social structural inequalities in their everyday lives.
- **d. Prof. Vijayant Agarwal,** Netaji Subhas University of Technology, New Delhi gave his presented on the topic



'Heuristic Algorithm for Routing and Planning of Jobs and Tolls in Flexible Manufacturing System'. He explained that in the Flexible Manufacturing System (FMS) jobs and tools are the two main factor of the operation and processing the work centre of EMS, is the group of jobs. In this to reduce toll inventory in the FMS system tool magazine is an important key factor.

e. Mr. Anushri Soni, Shri Ram College of Commerce, University of Delhi, he gave presented on the topic 'a multidisciplinary perspective of big data in management **research.'** He explained that In recent years, big data has emerged as one of the prominent buzzwords in business and management. In spite of the mounting body of research on big data across the social science disciplines, scholars have offered little synthesis on the current state of knowledge. To take stock of academic research that contributes to the big data revolution, this paper tracks scholarly work's perspectives on big data in the management domain over the past decade. We identify key themes emerging in management studies and develop an integrated framework to link the multiple streams of research in fields of organization, operations, marketing, information management and other relevant areas.

All the speakers were honoured by presenting the 'Mementoes' by Chairman, Honorary Secretary and other eminent Engineers. All presentations were enjoyed by all participants with keen interest.

Er. M. K. Agrawal, FIE, Honorary Secretary, IEI, Bareilly Local Centre presented a vote of thanks to all guests, participants, session chairs and committee members. Once again expressing his gratitude.

CONDUCTED AMIE SECTION A (DIPLOMA STREAM) SUMMER EXAMINATION 2021

The Institution of Engineers (India), Bareilly Local Centre conducted AMIE Section A (Diploma Stream) summer examination – 2021 successfully at Government Polytechnic, C. B. Ganj Bareilly from 20th March, 2022 to 23rd March, 2022.

The examinations were supervised by Er. Balwinder Singh Bajwa, FIE (Officer-in-Charge) and Er. Narendra Singh (Superintendent). We congratulate them and



extend our sincere thanks and gratitude for conducting the winter examination successfully.

Summer Industrial Training – 2022 Brochures

For B.Tech., IT & CS Students
On

Internet of Things (IoT), Artificial Intelligence, Machine Learning, Blockchain Technology and IoT Data Analytics (IoTDA),

For B.Tech., IT & CS Students
On

Cyber Security, Data Analytics and Digital Forensic

For B.Tech Core- Branches Students
We propose to impart Training in All Core-Branches
Mechanical, Electrical, Civil, Electronics &
Communication and Chemical

For Registration form Link & QR Code: https://forms.gle/BPq6gkQMiJuVNjWZA



For payment link:
http://blcieindia.in/DonateOrRegistration.aspx
Note:

· All Interns admitted would be mentored by our



experts for the rest of the year & IEI would Endeavour hard to place all Interns in corporate/Industries.

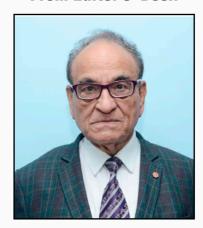
- Registration fee of Rs. 500/- would be adjusted towards summer Industrial Training-2022 fee of Rs. 10,000/-
- Registration would start from 4th April, 2022 (Monday) till 15th May, 2022.
- Training would commence from 1st week of June, 2022.

Contact: Er Sudhir Gupta, B.Tech (IIT, ROORKEE),
Director, Training & Placement. (93591-01346)
& Mr. Harpal Katiyar: 96349-53691,
The Institution of Engineers (India), Bareilly,
'Engineers' Bhawan' 44, Camphor Estate, C. B. Ganj,
Bareilly – 243502 – UP, E-mail: bareillylc@ieindia.org,
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Forthcoming Events (First Quarter) April – June – 2022 - 23

- World Telecommunication & Information Society Day – 2022 on 17th May.
- 2. World Environment Day- 2022 on 5th June.

From Editor's Desk



Last quarter was an happening one for Bareilly Local Centre which organized several technical events viz. Tech-Talk at Rajshree Institute, guest lectures on IOT, ML, Al and data security, and National conference on 'Multidisciplinary Research in Engineering Management & Medical Science.

In all above programs a large number of students, faculty members and professionals participated and contributed energetically and enthusiastically.

Above was possible due to untiring efforts by our Chairman Er. Sudhir Gupta, Er. K.B. Agrawal, Dr. Pankaj Sharma, Er. Navneet Agrawal, Er. M.K. Agrawal and many other committee members.

The height of enjoyment in Holi Milan Samaroh made all members to continue such program in future too.

Hope the News-Letter which you have just gone through is informative and fulfills it's purpose.

Your suggestions are solicited to augur it's quality further.

Regards,

Er. Subhash Mehra.Chief Editor.

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