

لاہور
سائنس
میلہ 2023



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LAHORE SCIENCE MELA 2023

PROJECT REPORT | KHWARIZMI SCIENCE SOCIETY

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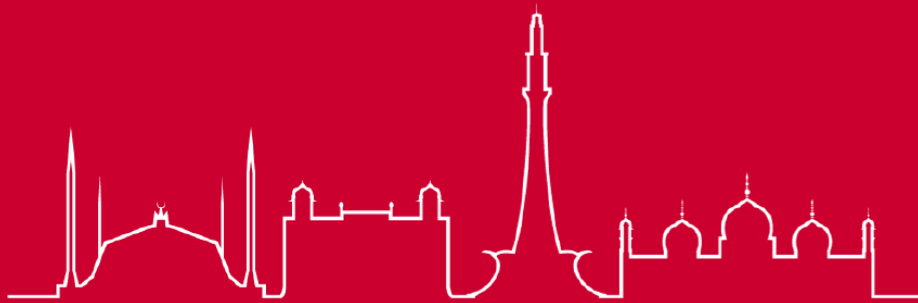


CRESCENT MODEL
HIGHER SECONDARY
SCHOOL

Drawing **>100,000** visitors, boasting **~140** engaging exhibitors, offering captivating **Thousands** of artifacts including KSS' Own **50** in-house built demonstrations in KSS Surpriseum, presenting **23** insightful indoor sessions, and a plethora of other astounding attractions, Lahore Science *Mela* 2023, once again resounded globally that

Pakistanis possess the fervor, passion, and determination needed to reshape their present into a promising and vibrant tomorrow

kharizmi.org | ksslsm.org



Visitor count is an estimate

Contents

Welcome Note-----	6
Sponsors: LSM 2023-----	8
Part 01: KSS & Mela	9
KSS: Khwarizmi Science Society-----	10
Mela: defined-----	10
LSM: 2023-----	11
Tarana: Anthem-----	11
Theme: LSM'23-----	12
Crescent Model Higher Secondary School, Shadman, Lahore: Venue Partner LSM 2023-----	14
Part 02: RUN-UP TO LSM 2023	15
RUNUP TO: LSM 2023-----	16
Where the Mela Comes Alive: Venue Selection-----	16
Alchemy of FundRaising:-----	17
Summoning Exhibitors:-----	18
Weaving Mela Magic: Event Organizers-----	18
Web Wizards Unleashed: Marketing & Out-Reach-----	20
Metrics Behind Mela's Online Odyssey: Social Accounts Insights-----	20
Android Application: Lahore Science Mela-----	21
Visual Symphony: Official Poster, Logo and Teasers:-----	22
Let the World Know: Poster Campaigns-----	24
A Celebration of Unity in Diversity:-----	24
Realm of Print Media-----	24
Blueprints of Wonder: Floorplan of the Mela-----	25
Part 03: All about Pavilions & Statistics: LSM 2023	26
All about Pavilions & Statistics: LSM '23-----	27
Pavilions:-----	27
Performers & Exhibitors:-----	28
Parallel world of knowledge: Auditorium Sessions-----	30
Indoor Sessions:-----	34
KSS SURPRISEUM: Hairat Ghar -----	35

Preserving the Traditions: Artisans-----	36
Passing the Torch-Light: Training Future Science Demonstrators-----	37
From Equations to Galaxies, From Cosmic Wonders to Micro Realms: A Voyage through different subjects-----	38
Khalai Kachwa: Planetarium-----	40
Gamifying Particle Physics: LHC & LIT-DISCO:-----	40
How did it start?-----	40
SCIENCI BAITHAK: Meet your Favorite Scientist-----	42
Feedback from Volunteers of the Team:-----	43
Feedback from Experts:-----	44
Soulful Supporters: Mela Volunteers Squad-----	46
Mela in the Limelight: Press, Interviews, Headlines, Features, & More!-----	47
Pre-Event Interviews:-----	47
Part 04: Data Analysis: Where do we stand?-----	48
Data Analysis: Where do we stand?-----	49
Visitor Count:-----	49
Exhibitor Count (excluding Schools):-----	50
Increased number of Exhibitors over the years:-----	55
What Tomorrow's Scientists are doing Today: Participation of Schools-----	55
Advocating for Recognition: from Secretaries of Education-----	57
LSM 2019 Collaboration:-----	57
Mela 2023 scenario: No response & Major constraints-----	57
Silence from Leading "Very High-Fee Private Schools" and Institutes:-----	58
Geographical Diversity:-----	58
Enabling People: Support by KSS-----	62
TAKMIL Foundation:-----	62
Shah Latif Model High School: Daharki, Sindh-----	63
Little Stars Home Orphanage: Burewala, Vehari-----	63
A&A Montessori School System: Dad Laghari, Ghotki, Sindh-----	64
Shakargarh:-----	64
National Institute of Oceanography: Karachi-----	64
Volunteer Incentives-----	64
Gender Harmony in Action: Diverse Volunteer Landscape at Mela-----	64
MEET THE TEAM: Lahore Science Mela 2023-----	65
Volunteers: Lahore Science Mela 2023-----	66

Ask Oneself: Questions

69

1. Why do we invite artisans?----- 69
2. Was there any art at the Lahore Science Mela?----- 69
3. What was the "language" of the Mela?----- 69
4. Was there any difference between the crowds on day one and day two?----- 70
5. What does the LSM do for human resource training?----- 70

Challenges: LSM 2023

71

- International Presence----- 71
- Security and Crowd Control----- 71
- Communication----- 71
- Permanent Space (Physical Space to Exhibit)----- 72
- Bigger Team----- 72
- Food Provision to Exhibitors and Builders----- 73
- Incentivising people----- 73



elcome to the evaluation report for the Lahore Science Mela 2023. This year was unique in many ways—not least in being the **fifth chapter** of the annual Mela series.

This year's theme, **"Create Your Own World,"** took a unique cross-disciplinary approach, underlining our commitment to fostering engagement with science, technology, engineering, mathematics, medicine, and the arts. The Lahore Science Mela (LSM) 2023 took place over two days, from **October 28th to October 29th**, running from 9 am to 5 pm each day and attracted a wide audience of all ages from the local area and beyond, including international presence as well.

The **objectives** of Lahore Science Mela remain consistent and unwavering. This report affirms that we have continued to fulfill these objectives:

- To inspire and encourage young people to explore and pursue careers in science, technology, engineering, mathematics and other emerging fields
- To facilitate meaningful interactions between researchers and the general public on topics of scientific interest and concern
- To promote and showcase the incredible research conducted within Pakistan
- To reach and engage with a minimum of 50,000 visitors annually, while also expanding our reach to new audiences

Finally on the numbers front, we can proudly say that more than **100,000** people visited the Mela in just Two Days!

The success of the Lahore Science Mela hinges on the unwavering support, dedication, creativity, and enthusiasm of the entire team at the Khwarizmi Science Society (KSS), as well as the invaluable contributions from volunteers representing various schools, institutions, organizations, and businesses. We extend our heartfelt gratitude to all those who played a role in making this year's Mela a resounding success, whether as exhibitors, speakers, event coordinators, volunteers, sponsors, or patrons.

We hope that this report will offer valuable insights for future planning of science extravaganzas and the development of science shows. The data and findings from this year will serve as a benchmark, allowing us to measure our progress as we continue our journey forward.

Lahore Science Mela: Platform 9 ¾ to the Wizarding world of Science!

Being a part of KSS has been nothing short of finding a second home. I believe that Allah led me to the KSS family to connect with His beautiful souls, particularly Dr. Sabieh Anwar and Mohsina Asif. Becoming part of the Core Team for *Mela* marked a significant milestone for me, my first venture into organizing an event of such grand scale.



Who knew managing a Science *Mela* would be a roller-coaster ride I had never remotely imagined? From managing finances and writing grant proposals to the panic moments and everything in between, and the day before the event? A stress-fueled, caffeine-infused adventure! Connecting with individuals with rich histories and inspirational stories and witnessing the culmination of months of tireless work by the team, and finally experiencing the success of the *Mela* – It's just surreal!

The highlight for me? When my mother and brothers visited! Witnessing kids marveling at the changing patterns of lasers, students from distant areas coming on "Lahore Mela tours," and little siblings hand-in-hand enjoying the food courts, and Baray-Bazurg (elders/grandparents) involved in deep conversations on long-held science myths – these moments fill your heart with tears, love, pride and overwhelming emotions. That's the essence of *Mela* – a fusion of traditions, emotions, science, tech, and modernity.

Yet, a tinge of sadness crept in as the event concluded in just two days, which felt more like two fleeting minutes. It's disheartening to realize that there are millions out there who remain unaware of, or fail to recognize, the impactful work that KSS is undertaking.

Consolidating all the enchanting aspects of *Mela* into this report was a task in itself, but I've tried my best to do justice to the magic of *Mela*. I hope this report has the power to transport you to the vibrant world of Lahore Science Mela. As I reflect on this unforgettable experience, my sincere prayers go out for all the future ventures of KSS. May they continue to create moments that inspire, connect, and bring about positive change.

~ Amna Lal Hussain
(Lead Author & Science Communicator KSS)

Sponsors: LSM 2023

Sponsors are instrumental in bringing the Lahore Science Mela to life. This event comes to fruition thanks to core funding from prominent national and international organizations and the generous support of our sponsors. We express our sincere appreciation to all of them for their invaluable contributions, which have been integral to the Mela's remarkable success.

Venue Partner: Crescent Model Higher Secondary School, Shadman, Lahore

Media Partner: Discover Pakistan

Event Planning Partner: HumRung

Coordination Partner: Old Crescentarian Society



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Platinum Sponsors:

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Part 01

KSS & Mela

- KSS: Khwarizmi Science Society ([page link](#))
- Mela: defined ([page link](#))
- LSM: 2023 ([page link](#))
- Tarana: Anthem ([page link](#))
- Theme: LSM'23 ([page link](#))
- Crescent Model Higher Secondary School, Shadman, Lahore: Venue Partner LSM 2023 ([page link](#))

Group Photo Lahore Science Mela 2023



KSS: Khwarizmi Science Society

Khwarizmi Science Society (KSS), founded by the late **Dr. Saadat Anwar Siddiqi**, (webpage: [Link](#)) a life-long teacher of physics and materials science and foremost science popularizer, stands as one of Pakistan's most active and oldest grassroots science awareness movements.

LSM

Among its prominent initiatives, the **Lahore Science Mela** (Festival) Series, launched in **2017**, has been a shining beacon, igniting a scientific spirit within the people of Pakistan. Culminating from years of science outreach events, this series has seamlessly evolved into a cultural icon, not just for Lahore but for all of Pakistan.

The **underlying concept** of these science melas is to reshape public perceptions of science, instill the belief that science is a collective heritage, propel students beyond the confines of textbooks and classrooms, foster a vibrant hub for intellectual discourse and scientific exploration, and most importantly, inspire the next generation of scientists and technologists in Pakistan.

What began as a humble effort to promote scientific awareness among the public and spark the curiosity of students has now matured into an annual celebration, where the wondrous world of science takes center stage.

Mela: defined

The word **mela** is common parlance in the local language and embodies the essence of blending ideas, people, and activities. This word itself traces its roots back to **Persian (Farsi)**, adding a rich layer of cultural depth to its meaning.

Dr. Saadat Anwar Siddiqi (late) shared the philosophy behind the festival:

**"Festival is not an exhibition,
rather a dynamic display of
scientific phenomena"**

میلہ

*Farsi origin
~ mingling of ideas, peoples,
and activities*

In contrast to conventional student science exhibitions that often revolve around creating static artistic representations of scientific concepts, commonly referred to as **"models"** locally, the festival introduces an unprecedented and substantial advancement—**the concept of crafting museum**—quality demonstrations and experiments.

This innovative approach challenges the conventional boundaries of science exhibitions, paving the way for a more engaging and interactive exploration of the captivating world of science. It encourages students and enthusiasts to move beyond static models, fostering a

deeper understanding of scientific principles through hands-on experiences and awe-inspiring demonstrations.

LSM: 2023

Lahore Science Mela 2023, a completely free event, received an enthusiastic and joyful response from the Pakistani public. At the core of the KSS's mission within the Science Mela series lies the vision of creating and curating a **temporary science museum**, one that captivates and instills in students a deep appreciation and wonder for the world of science.

5th
installment

The Mela of 2023, the **fifth installment** of this grand event, brought together a diverse array of participants from across the nation. These contributors

represented a wide spectrum of scientific **disciplines**, spanning physics, life sciences, wildlife, chemistry, materials, robotics, artificial intelligence, health, human anatomy, minerals, geophysical exploration, satellites, radio communication, nuclear technology, optics, photography, road safety, traffic management, aerodynamics, and artificial intelligence.

The Mela essentially transformed into a transient museum, where scientists, artists, and skilled artisans united to enlighten the masses, with a particular focus on **nurturing the curiosity of young minds**. It became a platform for unraveling the mysteries of the scientific phenomena that surround us daily.

Tarana: Anthem

In **January 2017**, an Anthem, or Tarana for Lahore Science Mela, was introduced serving as both an emblematic representation of the initiative and a melodious invitation to all citizens of Pakistan. The task was taken up by the **Media Lab**.

It emphasized the idea that activity-based education holds the key to simplifying the comprehension of intricate scientific concepts, making them more accessible to young learners.

چلو ساتھ میرے

~ Let's Go Together

Chalo Sath Meray!

[Lahore Science Mela Anthem Link](#)



Lahore Science Mela 2023 Main Ground Aerial Image

Theme: LSM'23

Lahore Science Mela 2023 followed the theme of

“Create Your Own World”

which embodies the notion of creativity, innovation, and exploration in the pursuit of building one's own reality. The theme reflects a call to action for individuals to envision, design and construct a better future for themselves and for the world around them, using science, technology, and art as tools to shape their vision. We aimed to promote a sense of empowerment and ownership, urging people to take charge of their surroundings and contribute to the greater good through imaginative and constructive endeavors. We intended that this Lahore Science Mela 2023 should be all about just that.



Mela Shirt with Tag Line

اپنی دنیا آپ پیدا کر

~ Taken from Dr. Muhammad Iqbal's
(Allama Iqbal) poetry Bang-e-Dra:
Jawab-e-Khizar, Zindagi

لاہور سائنس میلہ ایک عارضی عجائب گھر

~ ڈاکٹر محمد صبح انور (Dr. Muhammad Sabieh Anwar ~ General Secretary KSS)

بچے سال بھر اس دن کا انتظار کرتے ہیں۔ ماں باپ اپنے بچوں کو نہلا دھلا کر، کنگھی کر کے، اُجلے کپڑے پہنا کر صبح سویرے ہی چلے آتے ہیں۔ بسوں اور ویگنوں میں لاد کر شفاف وردیوں میں ملبوس طلبہ و طالبات قطار اندر قطار میلے کی راہداریوں میں چلتے دکھائی دیتے ہیں۔ نامی گرامی سائنسدان عوام کے جم غفیر میں گھل مل جاتے ہیں۔ کہیں لوگ خود اُچھل رہے ہیں، کہیں رسے کھینچ رہے ہیں اور کہیں میناروں پہ چڑھتے دکھائی دیتے ہیں اور کہیں ربوٹ کے مشینی بازو سے نکلنے والی تیز رفتار گیندوں کو بلے سے کھیل رہے ہیں۔ لوگ پانی میں مچلتی لہروں کو ٹکٹکی باندھے دیکھ رہے ہیں۔ شائقین جانوروں اور کیڑے مکوڑوں کی شرارتوں پہ ہنس رہے ہیں۔ خلائی کچھوے نامی گنبدِ افلاک



نمائیں بیٹھے فلیس دیکھ رہے ہیں یا پھر ریاضی کے اصولوں پہ مبنی سنگی نقش بنا رہے ہیں۔

یہ سب کچھ لاہور سائنس میلہ 2023 کی زینت تھا! ایک سو کے قریب لوگوں نے ایک لاکھ لوگوں کے لیے عارضی عجائب گھر تشکیل دیا جہاں مستقبل کی دُور اندیش تعمیر و تخلیق کا کام جاری رہتا ہے۔ جہاں آج کی محنت آئندہ کل کی روشنی کی ضمانت بنتا ہے۔

لاہور سائنس میلہ ایک بے مثال کاوش

~ ڈاکٹر شاہد عتیق (Dr. Shahid Atiq ~President KSS)

لاہور سائنس میلہ اپنی مثال آپ ہے۔ اس میلے کو بے مثال بنانے کے لئے اہم کردار ادا کیا ہے والدین کے اس شعور نے، جس سے وہ اپنے بچوں کی انگلی پکڑ کر لاہور سائنس میلے کا رخ کرتے ہیں۔ اس میلے کی کامیابی مرہون منت ہے اس جستجو کی، جس سے طلباء اپنے والدین اور اساتذہ کی رہنمائی میں سائنس میلے کا رخ کرتے ہیں۔ خوارزمی سائنس سوسائٹی دعا گو ہے کہ والدین کا شعور اور طلباء کی جستجو اسی طرح بڑھتی ہے، ہمارا ملک سائنس کے میدان میں ترقی کرے، تاکہ ہماری آئندہ نسلیں دنیا میں سر اٹھا کر جی سکیں۔ آمین



لاہور سائنس میلہ امید کی روشنی

~ ڈاکٹر محمد مصطفیٰ (Dr. Muhammad Mustafa ~ Joint Secretary KSS & Incharge Public Engagement)

میرا دیس ترقی کے سفر میں ایک ایسے دور اسے پر کھڑا ہے جہاں کامیابی کا راستہ امید کی روشنی کا مرہون منت ہے۔ لاہور سائنس میلہ امید کی وہ روشنی ہے جس میں ہم اپنے روشن مستقبل کا راستہ تلاش کر سکتے ہیں۔ میں نے گزشتہ سالوں میں پروفیسر سعادت انور صدیقی کے ذہن کی اس اختراع کو ایک ننھے وجود سے تنا آور درخت بنتے دیکھا ہے۔ میں نے دیکھا ہے کہ ہمارے لوگوں میں سیکھنے اور سکھانے کا جذبہ معاشرتی ناہمواریوں کے باوجود اپنا وجود برقرار رکھے ہوئے ہے۔



لاہور سائنس میلے میں عام افراد سے طالب علموں تک ہر روح نے محسوس کیا کہ ہم کسی سے کم نہیں ہیں، ہمارے پاس علم کی چاہ بھی ہے اور ہنر سے آشنائی بھی۔ جوق در جوق اور غول کے غول علم کے پیاسے اس میلے کے دشت کی سیاحی کرتے ہوئے علوم کا تبادلہ کرتے رہے۔ نمائش کاروں کی فنی مہارت تھی یا کسی بے نشان کی چھپی ہوئی صلاحیت، اس میلے کی برکت سے لاکھوں لوگوں کے وجدان سے نکرا کر تاریخ کا حصہ بنی۔ خوارزمی سائنس سوسائٹی نے رضاکاروں کی ایک ایسی فوج ظفر موج کھڑی کر دی جو کتابوں میں موجود دقیق علمی مسائل کو عام فہم انداز میں زندہ و جاوید کرنے کا عظیم کام کر سکی۔ متفرق طبقات کے علمی اجتماع کے فضائل اپنی جگہ اس میلے میں ہم نے دیکھا کہ میرے دیس کے لوگوں کا فکری نظریہ علم ہے اور یہی وہ راز ہے جو ان سب کو ایک جگہ ہنستے مسکراتے اکٹھا کر سکتا ہے۔ لاہور سائنس میلہ میرے لئے ایک ایسی دلیل ہے کہ ہماری مٹی علم سے نم ہو تو بنجر ہو کے بھی شاداب ہو سکتی ہے۔ اس میلے میں عام عوام کی اتنی بڑی تعداد میں شرکت نے یہ ثابت کیا کہ کہیں نہ کہیں ہم یہ مانتے ہیں کہ نشاط ثانیہ کالج علم کی آبیاری کا منتظر ہے۔

Crescent Model Higher Secondary School, Shadman, Lahore: Venue Partner LSM 2023

Lahore Science Mela 2023 owes a debt of gratitude to the venue partner, Crescent Model Higher Secondary School, Shadman, Lahore.

Founded in 1968 and located in the hub of Lahore at Shadman, the Crescent Model Higher Secondary School has a rich history of fostering thousands of distinguished minds to date. This richness breathed spirit into the Lahore Science Mela on 28th and 29th October with the festivities seamlessly blending with the glorious red bricked buildings, spacious auditorium and classrooms, and vast grounds

The sprawling and well-equipped premises of Crescent Model Higher Secondary School provided an ideal canvas for the vibrant tapestry of the *Mela*, offering a conducive environment for the exploration and celebration of science. The collaborative spirit demonstrated by Crescent school management has significantly contributed to the overall success of the *Mela*.

The **schools' management** led by Mr. Altaf Muhammad Saleem, Ms. Rabia Najam, Ms. Sofia Qadir Khan, Ms. Samina Ikram and Lt. Col. R Muhammad Ali along with their stellar team of proactive teachers have been a force to reckon with. Indelible support was also extended by the **Old Crescentarian Society** crusaded by Mr. Mian Muiz, Ms. Ayesha Muiz, Ms. Anum Tariq, and Dr Shaheed Ullah. We also found the current and old Crescentarian students bustling with an unmatched enthusiasm, as they contributed in and shone in all volunteer teams across the boards. The school's cleaning, custodian, and security staff also emerged as true stars of this festival: right from the pre-event days to the actual days, they worked tirelessly to ensure everything was top-notch.

Crescent School
Entrance



Part 02

RUN-UP TO LSM 2023

- Where the Mela Comes Alive: Venue Selection ([page link](#))
- Alchemy of FundRaising ([page link](#))
- Summoning Exhibitors ([page link](#))
- Weaving Mela Magic: Event Organizers ([page link](#))
- Web Wizards Unleashed: Marketing & Out-Reach ([page link](#))
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 - A Celebration of Unity in Diversity ([page link](#))
 - Realm of Print Media ([page link](#))
 - Blueprints of Wonder: Floorplan of the Mela ([page link](#))

Welding process of Planetarium



RUNUP TO: LSM 2023

The preparations for the fifth Lahore Science Mela started off in **March, 2023**.

Where the Mela Comes Alive: Venue Selection

For the venue the norm is that the KSS team gives the educational institutes and especially **public schools** an opportunity to host the Lahore Science Mela. The idea is to empower schools, its students, and teachers, bringing the festivity and excitement of science and technology a tad closer to them. Another goal is to select a venue that is accessible and approachable for people from all walks of life and can host a truly "open-to-all" event.

To make this possible, an [open-call](#) was extended to all educational institutes of Pakistan to host the country's largest citizen science festival. This led to an eager **competition** and vigor among the schools to become the next venue partner of the Lahore Science Mela movement. Upon receiving applications, the KSS team organized **venue visits** to all interested schools. Internal meetings ensued, where a comprehensive evaluation of several parameters such as area size, facilities, accessibility, motivation, and past experiences and teachings took place. The team navigated through a lengthy and meticulous process, recognizing the crucial importance of choosing the right host institute. After careful consideration and weighing all factors, the KSS team ultimately declared the winner, marking the culmination of a thorough and diligent selection process that ensured the **Mela found a home** that aligned seamlessly with its vision and objectives.

04

Total Institutes who
bid this year to host
the Mela



Post for Open Call for Venue



Crescent Model Higher Secondary School,

Shadman, Lahore (Boys Campus) emerged as the worthy winner

Management of Crescent Model Higher Secondary School (Venue Partner LSM '23) stood by their promise of welcoming us with open doors and open arms.



Crescent School Website: [LINK](#), **Location Pin:** [LINK](#)

Alchemy of FundRaising:

The fundraising phase for the Lahore Science Mela 2023 was a journey of transforming numerous ideas into a grand event that required substantial resources, particularly financial support. Recognizing the significance of early preparation, the fundraising process commenced well in advance.

Grant writing emerged as a crucial step, demanding meticulous effort and skill. The team initiated the process by **identifying organizations** that aligned with the society's objectives and potential funding channels. Various renowned organizations, especially who sponsored previous LSMs were approached through detailed emails, and comprehensive **proposals** were dispatched, reaching not only local entities but also extending to the head offices of international organizations beyond Pakistan, including Saudi Arabia and the United States.

The process included meticulous planning, crafting persuasive proposals, gathering essential documents for grant processing, and reaching out to potential sponsors. The team utilized both digital and traditional channels, such as email correspondence and sending proposal decks via post. Follow-ups were conducted, leading to meetings where the team pitched the vision of LSM, aiming to make sponsors visualize the profound impact of the initiative.

It was a rollercoaster ride of emotions, with hopes fulfilled at times and dashed at others.

Fortunately, we succeeded in bringing like-minded sponsors on board. In some instances, the process deviated from the conventional path, leading to the receipt of in-kind donations.

Embracing modern fundraising platforms, we also revived the **GoFundMe platform** ([LINK](#)) to welcome donations across the world, widening the pool of contributors and fostering global support for the Lahore Science Mela.

The fundraising phase, a blend of strategic planning, outreach, and perseverance, ultimately culminated in the realization of a spectacular event.

~ 12 M PKR

Raised From National & International
Organizations

~ 700K PKR

Raised From Individual Donors & In-Kind
Support

 **Webpage to Support the activities of Khwarizmi Science Society: [LINK](#)**

Summoning Exhibitors:

The team started to work on the lists of schools, colleges, universities and potential exhibitors which included various government and non-government organizations.

An **open-call** was extended in **early June**, to all institutes and individuals of Pakistan to exhibit/perform at the country's largest citizen science festival. Invitations were sent via **e-mail** and **postage** to different organizations, schools, and institutions across Pakistan. Letters and e-mails were sent to the Secretaries of Education of all provinces but the response was minimal from the government officials. Letter Invites were written in both **English** and **Urdu** Languages.

Stats are as follows:



Post for Open Call for Performers

1000 Invites

Total invites sent out to Individuals and Organizations via email and by post

400

Educational Institutes:
Schools, Universities and
others (Govt. & Private)

200

Organizations & National
Museums

100

Startups and NGOs

Weaving Mela Magic: Event

Organizers

Organizing events of this magnitude demands minds as sharp as rockets, and realizing the need for expertise, we extended an **open call for event managers** for the Lahore Science Mela 2023. In response, we brought on board the company, **HumRung**, entrusted with the pivotal responsibility of steering the event from the initial question of **"How is the Mela going to happen?"** through the intricate phases of **"Another task? More planning, and**

Setting up Hairat Ghar ~ Day 0



More stress" to the decisive moment of **"Let's Execute It."**

Two exceptional humans, **Mr. Abu Bakar Siddiqi** and **Mr. Omer Waheed** from HumRung had the integral role in navigating the complexities of event management, ensuring a seamless transition from conceptualization to execution. With their strategic insights and meticulous planning, they became the driving force behind the scenes!

Webpage for Open Call for Event Managers: [LINK](#)

Let's see what Mr. Abu Bakar has to say about the process and team:

Architects of Mela: Note by Chief Organizer

~ by Abu Bakar Siddiqi (Executive Committee Member KSS)



It is with immense pride and gratitude that I worked for the successful conclusion of our Lahore Science Mela.

This event has been a remarkable journey, and it would not have been possible without the tireless efforts of our dedicated team and the overwhelming support of our attendees, sponsors, and partners. Our science festival was a resounding success because it embodied the spirit of curiosity and innovation. It was a celebration of knowledge, exploration, and the wonder of the scientific world. Our science festival was a testament to the power of science to inspire, educate, and bring people together. It kindled curiosity, ignited imaginations, and, most importantly, reminded us of the importance of scientific knowledge in our world.

As we look ahead, we are committed to building on this success, to continually improve, and to create an even more

remarkable experience in the future. With enthusiasm, we are confident that our science festival will continue to be a beacon of enlightenment and a source of inspiration for all.

I wanted to take a moment to express my heartfelt gratitude and offer a special thanks to **Omar Waheed Qureshi** for tremendous effort and unwavering dedication that played a pivotal role in making Lahore Science Mela such a resounding success. Your exceptional commitment and hard work were nothing short of extraordinary.

Your attention to detail, meticulous planning, and tireless execution of tasks demonstrated your unparalleled dedication to ensuring every aspect of the event was flawless. I Thank my **whole team**, Shakoor, Khadim Mahmood, Yousaf, Ajmal Siddiqi, Faisal Ali, Usman Rajpoot, Nabeel Siddiqi & all the volunteers.

I am proud of my team and believe that together we will continue to ignite the love for science among the nation.

Web Wizards Unleashed: Marketing & Out-Reach

The digital presence and outreach of the Lahore Science Mela 2023 underwent a transformative journey, with the foremost focus on updating the **websites** of both the Khwarizmi Science Society and the Lahore Science Mela itself. **Social media** emerged as a powerful tool for advertising, creating visibility among the target audience.

To enhance the digital experience, the **Creative Team** was brought on board to craft captivating digital posters highlighting exhibitors, international guests, and event details. Our **digital marketing channels** included:

- Instagram
- Facebook
- Twitter
- LinkedIn
- YouTube
- MailChimp (Mass Emailing)
- TikTok
- Print Media of Billboards, Fascia and Streamers
- Android Application of Lahore Science Mela

Despite having a lean Social Media team, the creative spirit soared as the team endeavored to produce reels, infusing creativity into every frame. Google Docs and Google Sheets trackers streamlined the designing process, providing a collaborative platform for content and data management to assist designers in their creative endeavors. The **treasure trove** of media from previous *melas* and events added a spark to the posters and compelling and regular social media throwbacks composed by **Ayesha Jamal**, showcasing the evolution of the event over time. Navigating the intricate process of providing guidelines to designers and finalizing visually appealing posters for social platforms proved both crucial and time-consuming.

As the days dwindled, transforming months into weeks and weeks into days, immense pressure mounted on the social media and creative teams to meet deadlines.

Metrics Behind Mela's Online Odyssey: Social Accounts Insights

Following are some insights obtained from social reports:


 **Instagram:** kss_pk/
Insights from **10 Aug - 7 Nov (90 Days)**

137,212

Accounts reached

2,264

Accounts engaged


Facebook: /KhwarizmiScienceSociety
 Insights from **11 Oct – 7 Nov (Last 28 days)**

645,386

Post reach

27,609

Post engagement

573

New Page likes

971

New Page followers


Twitter (X): /KSSPakistan
 Insights from **11 Oct – 7 Nov (Last 28 days)**

73.6K **↑85.3%**

Tweet impressions

2,438 **↑60**

Followers


Website: /khwarizmi.org/
October Performance

5.32K

Clicks (web)

87.7K

Impressions (web)

Top countries
By clicks (web)

	Pakistan	2.93K
	India	693
	United States	558

lahore science mela 2023
+611 clicks (web)

khwarizmi science society
+159 clicks (web)

science mela 2023
+149 clicks (web)

Top growing queries
Google report*

Android Application: Lahore Science Mela

KSS Team also took another initiative to modernize and digitalize the *Mela* world. The initiative was led by **Mr. Umar Hassan** who appointed an Application designer and worked alongside him to consolidate all the *Mela* data of Exhibitors, Pavilions, Map and related details on the app. The application was released on 18th October 2023 and can be accessed on Google Play Store.

Application [Link](#)

Lahore Science Mela

Five Point Nine

Khwarizmi Science Society -- Lahore Science Mela Official App



50+

Downloads

E

Everyone

Install

Visual Symphony: Official Poster, Logo and Teasers:

For the Lahore Science Mela 2023, our Creative Head (**Saad Usman**) dedicated substantial efforts to craft a captivating official poster and a distinctive logo that embodied the spirit of the event. The poster was designed to reflect the theme and excitement of the Mela. **Behroz Khan** and **Talha Shakoor** were the other two instrumental pivots of the creative process.

Let's Read what Saad Usman has to say about the whole process.

The Art of Science: Branding Lahore Science Mela

~ by Saad Usman (Creative Head)



Getting the call from Dr. Sabieh this year, I faced a challenging decision in accepting it as I was deeply committed to several other projects at the time. However, **my love** for the Khwarizmi Science Society and the Lahore Science Mela, along with its incredible people, convinced me to set drop all other commitments and take on this responsibility. The purpose of these initiatives, which involve educating people all across Pakistan and emphasizing that science is for everyone, always compels me to say **"YES."**

Last year, I was just a designer who joined the society relatively late in the game. Nevertheless, I poured my heart and soul into it. Khwarizmi Science Society has always emphasized the use of design assets in **Urdu** to reach the grassroots levels of the society, and it was something I had long aspired to do for this noble purpose. It turned out to be the perfect fit for me. I dedicated myself wholeheartedly and did my best, and my efforts were appreciated throughout. The fusion of my passion for design, creating content in Urdu, and working towards education, all within an amazing team, made it an immensely rewarding experience.

This year, as the design lead, I recognized that my role would carry more weight and influence, especially considering the event's growing scale.

As Spiderman famously says, **"With great power comes great responsibility."** This certainly held true for me as I undertook the task of branding and designing the Pakistan's largest science festival. Designing a science event is an intriguing and challenging endeavor. It involves maintaining a delicate balance between education and enthusiasm while, most importantly, creating a vibrant ambiance for a "میلہ" (fair), a cultural celebration that represents our country. As the design lead, I had to assemble the best team to work with me, and I was fortunate to find individuals who played a crucial role in the successful branding of the event.

Our tasks ranged from creating digital design assets, crafting complementary cultural Urdu calligraphy, designing event countdowns, building hype via social media posts, working on marketing design assets, and producing on-site markers, banners, facias, t-shirts, taglines and, perhaps most importantly, the event's logo (LSM23) and the general poster that would serve as the face of the event. These materials were set to be distributed and displayed all over Pakistan, from schools and streets to offices and billboards. The magnitude of this undertaking was both surreal and challenging, but my team and I managed to pull it off.

The importance of event branding cannot be understated. It's what sticks in the minds of attendees long after the event is over and keeps them excited for the next edition. This was my primary goal – **to create a cohesive and vibrant**

میلہ atmosphere surrounding the event while promoting modern education and science. Thanks to the dedication and hard work of the incredible KSS team, as well as Dr. Sabieh's trust in my aesthetics and vision for LSM 2023, we successfully achieved this objective.

Looking ahead, I am hopeful that we can continue to build upon this success and create an even more vibrant and grand Lahore Science Mela in the coming year.

لاہور
سائنس
میلہ 2023



General Announcement Poster and Official Logo LSM'23

In addition to this, we leveraged last year's media content to create **short teasers** that served as engaging previews for this year's event. This task was taken up by **Media Lab**, the magical duo who has been with KSS since the inception of the *Mela* series and curated the heart-warming anthem in 2017.



Watch the Teasers at the links below:
[Link 1](#), [Link 2](#)

Let the World Know: Poster Campaigns

To promote the Lahore Science Mela 2023, we employed an extensive poster campaign strategy. Our approach involved two key methods:

Volunteer Engagement:

We engaged our dedicated team of volunteers by providing them with flyers and posters during volunteer meetings. These volunteers played a crucial role by displaying the promotional materials in their local areas, towns, markets and schools, extending the reach of the Mela's message to diverse communities.

A Dedicated Outreach Person:

In addition to volunteer efforts, we employed a dedicated individual (**Mr. Muhammad Yousaf**) who undertook the task of spreading the word about the Mela. This dedicated outreach person accessed far-flung areas on his **motorbike**, ensuring that the message reached even remote locations and organizations like the Central Jail School, Edhi Home, Worker Welfare Schools, Govt Special Education Center, Deaf Reach School, community schools, Darul Shafqat and other schools for orphans and differently abled children.

 **Visuals of the Poster Campaign can be accessed here: [LINK](#)**

A Celebration of Unity in Diversity:

In our commitment to making the Lahore Science Mela 2023 accessible to every individual, irrespective of their social status, beliefs, or language, we took a proactive approach to foster inclusivity. We solicited and disseminated invitation videos in various local languages of Pakistan, such as **Wakhi, Punjabi, Burushaski, Pashto, Balochi**, and others.

These multilingual invitation videos addressed the audience in their native languages and resonated with diverse communities and demonstrated that the Mela was an event for all, where knowledge and curiosity knew no boundaries and where the rich cultural diversity of Pakistan is celebrated.

 **Invitation videos can be accessed here: [LINK](#)**

Realm of Print Media

With a social media team of nine members and a creative team of two designers, the digital posters were just the tip of the iceberg. The expansive realm of **printing media** unfolded, with Saad dedicating himself to print media and Behroz to digital media. From facias of exhibitor stalls to signages, banners, slogans, streamers, billboards, and a myriad of other flexes adorning the LSM

LSM Customized shirts



venue, the meticulous planning and execution were akin to revealing the hidden layers of an iceberg.

Blueprints of Wonder: Floorplan of the Mela

As time ticked away, the team grappled with the monumental task of finalizing the floor plan. Event Managers for LSM, alongside the KSS team, underwent approximately **20 alterations** before arriving at the locked version. Another designer was on-boarded to transform the functional floor plan into a visually enticing rendition for printing. The floorplan for the *Mela* was conceptualized during early August and was finalized in the first week of October.

The strenuous days of navigating Photoshop, Illustrator, CoralDraw and Premier Pro culminated in the metamorphosis of the LSM venue into the vibrant atmosphere of a Mela. Every nook and corner of Crescent Model Higher Secondary School got transformed into an area for ideation, research and application for the different facets of science.



Lahore Science Mela '23 **Venue FloorMap:**

Crescent Model Higher Secondary School, Shadman, Lahore (Boys Campus).

The **Floor Plan** of the Mela can be accessed here: [LINK](#)

Part 03

All about Pavilions & Statistics: LSM 2023

- Pavilions ([page link](#))
 - Performers & Exhibitors ([page link](#))
 - Parallel world of knowledge: Auditorium Sessions ([page link](#))
 - Indoor Sessions ([page link](#))
- KSS SURPRISEUM: Hairat Ghar ([page link](#))
 - Preserving the Traditions: Artisans ([page link](#))
 - Passing the Torch-Light: Training Future Science Demonstrators ([page link](#))
 - From Equations to Galaxies, From Cosmic Wonders to Micro Realms: A Voyage through different subjects ([page link](#))
- Khalai Kachwa: Planetarium ([page link](#))
- Gamifying Particle Physics: LHC & LIT-DISCO ([page link](#))
 - How did it start? ([page link](#))
- SCIENCI BAITHAK: Meet your Favorite Scientist ([page link](#))
 - Feedback from Volunteers of the Team ([page link](#))
 - Feedback from Experts ([page link](#))
- Soulful Supporters: Mela Volunteers Squad ([page link](#))
- Mela in the Limelight: Press, Interviews, Headlines, Features & More! ([page link](#))

Hast-o-Neest weaving patterns



All about Pavilions & Statistics: LSM '23

Let's talk about Numbers!

140

Exhibitors & Performers

23

Indoor Sessions
(Workshops & Auditorium Sessions)

50

In-House Built KSS Hairat Ghar Demonstrations

>100K

Visitor Count in 2 Days
Estimate*

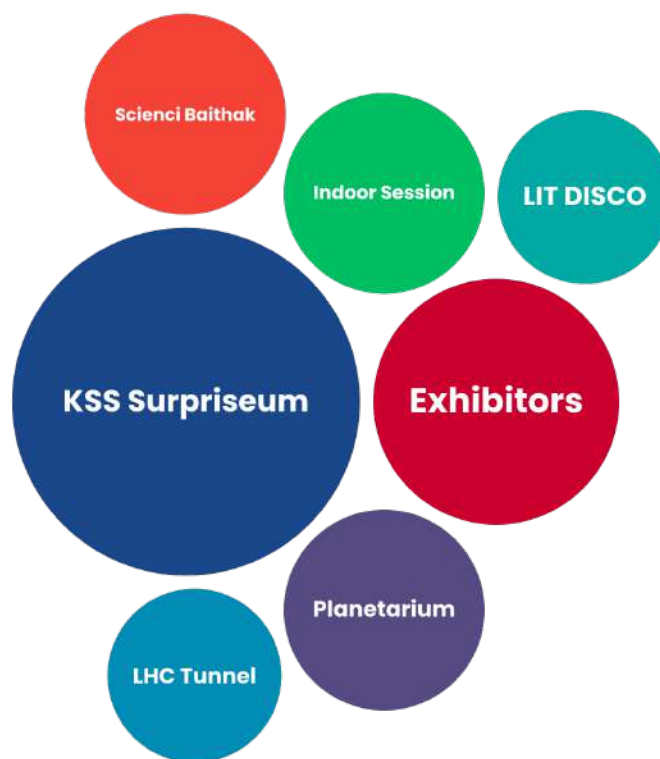
~400

Volunteers

Pavilions:

LSM 2023 featured new and captivating exhibits, demonstrations, and performances. The Mela boasted a variety of attractions, including:

- KSS Surpriseum (Hairat Ghar)
- A diverse range of science and technology exhibitors
- Planetarium (Khalai Kachwa)
- Large Hadron Collider Interactive Tunnel (LIT) and LIT-DISCO
- Exciting Indoor workshops along with exceptional Auditorium talks.





Performers & Exhibitors:

Exhibitors were grouped into **eight** categories contributing to the rich tapestry of experiences at the Mela, as follows:

Categories	What these amplify
آب، شجر، حجر	Water, Plants, Rocks, and Minerals
قومی اثاثے	National Assets
ٹیکنالوجی	Technology
سیکھنا سکھانا	Learn & Teach
اپنی دنیا آپ پیدا کر	Create Your Own World
زندگی	Life
خلا	Space
ہوا	Atmosphere

8

100 Organizations, Individuals, Startups,

23 Educational Institutes

33 Schools (Govt. & Private, Trust, NGOs)

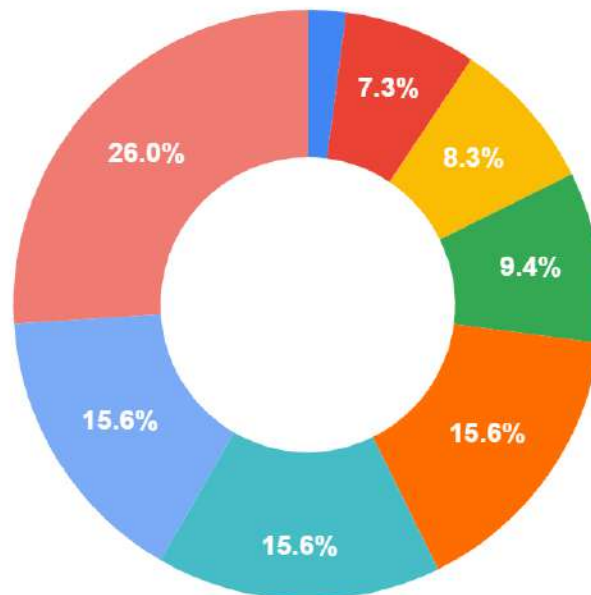
~10 Out of Station school exhibitors

4 National Museums

Exhibitors Categorization

Respective Number of Exhibitors & Ratio in each category

- National Assets (2)
- Atmosphere (7)
- Space (8)
- Water, Plants, Stones (9)
- Teach & Learn (15)
- Create Your Own World (15)
- Life (15)
- Technology (25)



To name a few Major **organizations and institutes**: Pakistan Atomic Energy Commission, National Institute of Oceanography, Pakistan Science Foundation, PCSIR, Pakistan Meteorological Department, PASBAN, Aga Khan Development Network, Veterinary Research Institute, TDF MagnifiScience Centre, Bonsai Society, Chughtai Lab, Hast o Neest, WWF, Children Library Complex; **museums** such as the National History Museum, Pakistan Museum of Natural History, National Museum of Science & Technology; **Leading universities and educational institutes** such as PMAS Arid Agriculture University, LUMS, UOL, GCU, UET, PU, King Edward Medical University, Cadet College Hasanabdal. Additionally, there was participation from **Trust Schools** and **areas** like Vehari, Kasur, and Daharki.

Exhibitors Onboarding Phase:

The onboarding phase for exhibitors at the Lahore Science Mela was a meticulous process marked by continuous communication and collaboration. It all began with the initiation of the **Open Call for Exhibitors**, triggering a flood of applications. Each application prompted an email notification, and the team diligently reviewed the responses. Promising candidates were then added to the sheet of **Potential Exhibitors**.

The communication phase commenced, with representatives from the Khwarizmi Science Society (KSS) reaching out to the interested performers. During these initial calls, the essence of the *Mela* was conveyed, and exhibitors were invited to share more details about their projects and plans. This **dynamic exchange** involved gathering media content from the aspirants, offering assistance in refining their ideas, and conducting two to three or as many

required follow-ups to address their requirements. The most promising exhibitors were then added to the **confirmed list** for the *Mela*.

Following confirmation, the process extended to assigning exhibitors their stall spaces, determining sizes and categories, and sending confirmation emails. Unfortunately, some applicants could not participate, leading to the disappointing task of sending regretful responses. Concurrently, **WhatsApp groups** and mailing lists were formed for the confirmed exhibitors to ensure seamless communication and updates.

As the event drew near, the team continued to stay connected with exhibitors, sending several **logistical letters** and emails in both **Urdu and English** a week before the event. These communications provided comprehensive details about the event-day requirements and logistics, ensuring that exhibitors were well-prepared.

This phase, marked by ongoing communication, coordination, and logistical arrangements, persisted until the culmination of Day 2!



Parallel world of knowledge: Auditorium Sessions

15

Alongside the grand outdoor celebration, there was a parallel world of knowledge unfolding in the Auditoriums at Mela. The auditorium sessions featured insightful talks, presentations, and discussions on a wide array of topics, from science and technology to arts and heritage!

Curating the auditorium sessions at the Lahore Science Mela was an intricate process, marked by planning and coordination. Despite the School boasting two expansive and well-equipped auditoriums, a decision was made to utilize the one with a seating capacity of approximately **300** with wheelchair-accessibility. This choice was strategic, prioritizing accessibility from other pavilions to enhance the overall visitor experience.

The process kicked off with the team reaching out to experts — both international and national — inviting them to deliver engaging sessions at the auditorium. This involved setting up meetings, understanding their niches, and, a week before the Mela, conducting technical assessments of the auditorium facilities. Test-run sessions, especially with international

speakers joining virtually, ensured smooth execution on the event days. Moderators were diligently assigned to each session to facilitate seamless discussions.

A real challenge surfaced on the days of the *Mela* when the team and volunteers had the daunting task of diverting the bustling audience from various pavilions to the auditoriums. Despite the challenge, the collective effort, well-timed announcements, and strategic planning paid off as numerous sessions witnessed a full house. The auditorium sessions became a focal point of knowledge-sharing and engagement, contributing significantly to the success of the Lahore Science Mela 2023. LSM 2023 featured the following line-up:

Day 01 | 28 Oct 2023 | Saturday

Radiation in low earth orbit and beyond

(Remote talk) ~ Dr Bilge Demirköz (Middle East Technical University, Turkey)

PAEC Achievements in National Development

~ Pakistan Atomic Energy Commission (PAEC)

قومی ترقی میں پاکستان ایٹم انرجی کمیشن کا کردار

Opportunities at CERN for Pakistani Nationals

~ Dr Zafar Yasin (PAEC)

Impact of classical ragas on time, mood and meditation ~ Saad Farooq Ziai (Farani Institute of Performing Arts)

زمانے اور انسانی کیفیت پر راگوں کا اثر

Islamic Cosmology: Art, Science & Culture (Pt 1) ~ Taimoor K. Mumtaz & Hakim Mudassir (Hast o Neest)

اسلامی نظریہ کائنات: علوم، فنون اور تہذیب

The Stars at Night: Documentary Screening

~ Cosmic Tribe

Live Interaction with Dr Salman Hameed: A

Seasoned Astronomer ~ Dr Salman Hameed & Roshan Bukhari (Kainaat Studios)

کائنات کے بارے میں سوال

Rise from the Rubble: A Tale of Tatu Village

~ A theatrical play (University of Lahore and Forman Christian College University)

ملے سے سیداری: تاتو گاؤں کی کہانی

Day 02 | 29 Oct 2023 | Sunday

The NIO Vision

~ Muhammad Zeeshan (National Institute of Oceanography)

Demystifying Dengue

~ Dr Somia Iqtadar (King Edward Medical University)

ڈینگلی کی روک تھام اور عوامی آگاہی

Islamic Cosmology: Art, Science & Culture (Pt. 2)

~ Prof. Kamil Khan Mumtaz, Taimoor K. Mumtaz, Dr Abbas Zilqarnain (Hast o Neest)

اسلامی نظریہ کائنات: علوم، فنون اور تہذیب

Build Your Own World Model

~ Joao Antunes Pequeno (CERN)

Scientific instruments from the Early Islamic World (Remote) ~ Chris Parkin and Helen Pooley (History of Science Museum, University of Oxford)

Harmonizing Knowledge: Exploring the Educational, Scientific, and Cultural Impact of Music

~ Beena Raza (Sanjan Nagar Institute of Philosophy and Arts)

علم اور موسیقی کی ہم آہنگی

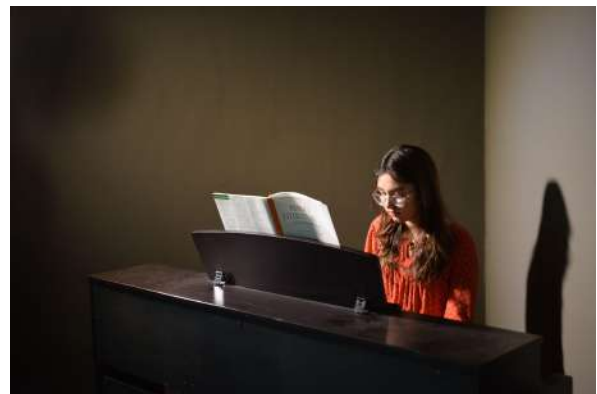
Pakistan: Under the Shadows of Climate Change

~ Dr Shahana Khurshid (LUMS)

پاکستان میں ماحولیاتی تبدیلی: ایک تبصرہ

Complete Auditorium Schedule can be accessed here: [LINK](#)

Visuals from Auditorium Sessions



Lahore Science Mela: A Personal Anecdote

~ by Mohsina Asif (Lead Science Communicator & Executive Committee Member)



It is difficult for me to express my thoughts about the Lahore Science Mela in just a few words, but I will try.

Since the start of my work with KSS in 2020, the Society, its cause and all its work have so strongly shaped me as a person that they have become an integral part of me. In this journey, Lahore Science Mela occupies the most central place.

And, while there are a thousand remarkable aspects of the Mela, I'll highlight a few key ones.

The Team:

Experiencing the grandeur of LSM 2023 and that of LSM 2022, it becomes hard to imagine that it is only a handful (literally a handful!) of people who orchestrate the entire event. I have learnt so much from my peers, mentors, and volunteers here. The team's selflessness and hard work; planning and starting work months in advance; and working day and night and through weekends and weekdays are inspirational beyond words. Besides the large-scale impact that many see on the event days, there is a gradual deep-rooted change that this movement has been brewing. LSM is creating mentors from mentees and setting a new standard for work ethics and devotion.

Our volunteers span all ages and backgrounds. They have the most soul-stirring stories to share — of traveling cities, surmounting disabilities, confronting gender inequalities, and a burning passion to contribute something, anything, in any way towards the community. Our volunteer army had them all — from a seven year old to a sixty-five year old and everyone in between, be it a single mother or a sibling duo.

The Community:

Similarly, among the thousands of endearing aspects of the Mela, one of the most beautiful is the impact we create in children and the under-served communities. It has been all about the schools that have flocked to the festival from the villages of Punjab and coasts of Sindh. It is the teachers of small community schools and villages that do not allow their challenges and problems dim their resolve. It is the people telling us they wait for the Mela the entire year and are already excited for the next one.

The Auditorium: excellence par excellence

On the event days, I was managing the auditorium, overseeing 15 back-to-back sessions, including talks by celebrated international and national scientists, panel discussions, theatrical performances, and Q&A sessions with astronomers and researchers. The diverse blend of programs within the auditorium is a microcosm of the entire festival's richness.

It has been such an absolute pleasure to have built a team and gotten to know some of the most brilliant youngsters through this

endeavor, to mentor and lead them, and to closely interact with and learn from the presenters of each session. The most memorable sessions for me were the two musical sessions by Saad Farooq and Ms Beena Raza, the presenters' brilliant capacity to fully immerse the audience and make them sing along and interactively teach them the physics and mathematics of musical tones. Another was of Joao Pequeno with his unmatched skill of conveying even the most complex of physics experiments in the easiest of ways –

demonstrating science communication at its finest!

My team's capability of coordinating all backstage and front end aspects so seamlessly, of adapting so quickly with everything, sticking throughout, and truly believing in the indoors melting pot of ideas were both heartwarming and inspiring. And perhaps, the most valuable lessons were taught to us by our presenters who truly knew how to carry their mastery and expertise with a grounding humility.



Indoor Sessions:

Lahore Science Mela 2023 featured a series of **eight** exciting indoor sessions including workshops and hands-on activities! From creating satellites to exploring the wonders of mathematics and technology, these sessions offered engaging learning opportunities.

Al Jazari Workshop ~ Khwarizmi Science Society

الجزري کارگاہ

Circuit-building, crafting, and electronics ~ The STEM Educators

Kainaat Studios

Let's build a Satellite ~ NCGSA

آؤ اُڑن طشتری بنائیں

Step into Another Dimension, with OmniLifeVR FCCU ~ OmniLifeVR FCCU

مجازی دنیا کا سفر، اومنی لائف وی آر کے ساتھ

LUMS Math Circles

Audacity Labs

Hast-o-Neest

8

KSS SURPRISEUM: Hairat Ghar



In the heart of the expansive *Mela* field, the temporary live science museum by KSS was a tangible representation of the underlying philosophy driving the organization of the Lahore Science *Mela*. Conceived by one of the *Mela* architects, **Dr. Muhammad Sabieh Anwar** and **Mr. Umar Hassan** alongside the driving force of **Dr. Muhammad Mustafa**, this museum was swiftly brought to life by a team of skilled instrument builders. KSS Surpriseum (Hairat Ghar) was home to approximately **50** mesmerizing in-house built demonstrations. Over **100** science demonstrators were ready to guide the public through a wide range of experiments, from illustrating the basic principles of friction and photosynthesis to unraveling the mysteries of black holes, the intricate laws of light, and even creating lightning by cracking the air!

حیرت گھر

Surpriseum

~ Hairat Ghar (House full of surprises and wonders)

>100

Science Demonstrators

trained by KSS Mentors and Experts

>60

Female

Science Demonstrators

>10

Equipment Builders

~10

Artisans

Nestled in a corner of KSS's *Hairat Ghar*, there was a **Dark Room area**, where visitors witnessed machines generating interfering water waves, lasers projecting spiral patterns crafted by students, and captivating displays of shadowgraphs and fluorescent crystals.

Amazement on Seeing
Science Wonders



A brief note on Hairat Ghar

~ by Syed Bilal Hyder Shah (Co-Lead Instrument Builder, KSS Surpriseum)

Khwarizmi Science Society's circus of science that sits at the heart of each LSM gets a fresh identity every year, in sync with the Mela's theme. **The Raaz e Hayat we investigated in last year's Surpriseum gave Zindagi to this year's Surpriseum** that left the audience in a daze while our team was trying to make a new world of experiments, complying with the theme of "**Apni Dunya Aap Paida Kar**".

Sticking to our motto, **Umar bhai** and I decided to retire as many of the old experiments as we could and replace them with the new ones. Out of **35** exhibitions, **16** were brand-new ideas spurred by the team.

This year, our circus was led by **95 student volunteers** from various institutions across Lahore. What made this year truly extraordinary was the remarkable participation of **women in STEM**, with **48 out of the 95 demonstrators being females**.

But the smartest move Umar and I made this year was expanding our team and appointing **mentors**. Aleeza Ayaz, Ismail Shehzad, Bilal Amin, Shayaan Haider, and Wardah Mahmood were the driving forces behind Surpriseum's success. In a couple of months leading to the Mela, we taught volunteers the concepts that they were not aware of, trained them in public speaking and engagement, and built friendly bonds with them, all while we built equipment for our **magicians to be**.

The true measure of our team's triumph cannot be gauged by the number of people we engaged

within a couple of days but by the unwavering dedication of our magicians. Regardless of how many hours they spoke or how many fresh faces they encountered, their enthusiasm never wavered. Credit for this relentless energy and motivation goes to **Dr. Mustafa**, whose dynamism and exceptional motivational skills lit the path.

As the first day of the Mela drew to a close, our mentor team gathered, celebrating the success of our events and brainstorming areas for improvement. It was a moment of pure joy for Umar and me. The previous year, we had carried these thoughts home in our heads, unaddressed. This moment with the team was when we truly felt the achievement of our goal – the creation of a world. Our world was not constructed from experiments and machines but from people united by empathy, excitement, and a shared love for science.

There are also a few **take-home points** for this year's Mela:

- **Safety over everything.** Proper safety equipment should be arranged, like fire extinguishers, and the team should be trained beforehand to deal with emergencies.
- School students should not be handed anything dangerous. Stuff containing chemicals or electricity.
- It must be remembered that taking children on board as demonstrators adds to the training time and comes with an added responsibility for their well-being.

Preserving the Traditions: Artisans

The *Mela* featured skilled craftsmen, preserving the traditions of their family-run businesses and showcasing the scientific principles embedded in their art. The Artisans who participated in LSM 2023 are as follows:

Sr. No.	Artisan Name	Exhibit
1	Ameer Khan	Handmade Toy
2	Syed Aneeq	Sweet Nanofiber
3	Shabir Ahmed	Potter
4	Syed Azhar	Hand Mold Injection
5	Salman Ayoub	Sand Casting
6	M Akram	Sand Casting



Artisans at LSM: Handmade Toy maker (Left) teaching kids to make one of his art-pieces
Potter: (Right) Teaching a girl the art of pottery

Passing the Torch–Light: Training Future Science Demonstrators

An **open call for science demonstrators** at the *Mela* garnered a significant response with numerous applications from enthusiastic individuals across Pakistan. In addition to welcoming new talents, a substantial number of science demonstrators from the previous year's *Mela* volunteered to become **mentors** for the incoming participants.

The **onboarding process** was designed to bring together volunteers from diverse backgrounds, and under the guidance of experts from the KSS and experienced trainers, their communication skills were refined. The focus was on building self-confidence and encouraging them to



Dr. Muhammad Mustafa motivating Hairat Ghar demonstrators ~ Day 0

explain intricate scientific phenomena in a manner accessible to audiences of all ages. KSS devoted **two months** to training these volunteers, regardless of age, transforming them into future science demonstrators. The commitment of the KSS Hairat Ghar demonstrators was unwavering, as they dedicated weekends over the two-month period to construct

demonstrations, conduct experiments, and hone their skills, ensuring a dynamic and engaging experience at the Lahore Science Mela.

From Equations to Galaxies, From Cosmic Wonders to Micro Realms: A Voyage through different subjects

Mathematics, often perceived as a dry and uninspiring subject, took a delightful turn at the Mela with multiple stalls and a specific area in KSS's *Hairat Ghar* dedicated to exhibiting engaging mathematical puzzles and games for children. Traditionally considered a challenging and austere discipline, these activities aimed to make math enjoyable. The initiative not only debunked the notion of mathematics as a daunting subject but also paved the way for future endeavors, aspiring to bring similar engaging activities to Lahore and various regions of Pakistan.



Maths Games at KSS Supriseum



Astronomy took center stage at the Lahore Science Mela, where numerous astronomers showcased some of the country's largest telescopes for observing solar prominences, a fortuitous sight on both days of the festival. Beyond solar observation, animated discussions on astrobiology and the search for extraterrestrial life unfolded.

Microscopy became a compelling theme at the Mela. While telescopes unveiled images from light-years away, on-site microscopes offered a closer look at microorganisms, insect parts, animal and plant tissues, and various crystals. The exhibition extended to the Earth's interior, showcasing rocks, minerals, and some of the world's oldest sea fossils, thereby highlighting the often-overlooked field of geological sciences in the country. This interconnected exploration of the vast and the minute underscored the diverse wonders of science at the festival

*Solar Observation can be
this amazing!*



Molecular structures being
set up for Hairat Ghar
~ Umar Hassan in action on
Day 0

Voice from the Vice President

~ By Charisma Wafee (Vice President KSS)

As one of the core organizers of the Lahore Science Mela Series, I have witnessed it evolve into what it is today. **It is the founder's vision realized; a platform that brings science professionals and common people together.**

Every year, the mela seems to be grander than the last with a bigger influx of an audience. This year's mela was a wonderful amalgamation of all fields of science ranging from medical sciences to astronomy, robotics to entomology. The mela also held an artistic essence as we had a diverse range of artisans, musicians and storytellers. It was exhilarating to see kids, parents and grandparents show an equal interest in the scientific processes of observation and experimentation. All in all, it feels amazing to see the culture of science being normalized in Pakistan.



Khalai Kachwa: Planetarium



KSS Planetarium (aka **Khalai Kachwa**) is one of the major attractions of Lahore Science Mela, offering an immersive experience to sit back and be captivated as you are transported to distant galaxies, witness the majesty of our solar system, and learn about the wonders of nature. This is all possible with the use of special projectors and the team's passion!

Explore more about this initiative here: [LINK](#)

>200

Shows in 2 Days

07

Team Members



Planetarium: Khalai Kachwa in action at LSM 2023

Gamifying Particle Physics: LHC & LIT-DISCO:

Khwarizmi Science Society has been featuring the world's largest particle physics laboratory and CERN's physics experimental models at Lahore Science Melas; product of a fruitful partnership between the two entities since 2019.

KSS, once again, invited and hosted **Joao Antunes Pequeno**, Head of Media Lab CERN, at the Mela who trained the team and also gifted us with a Kinect Sensor and another upgraded software for the LIT-DISCO setup.

>150

Shows in 2 Days

40

Team Members

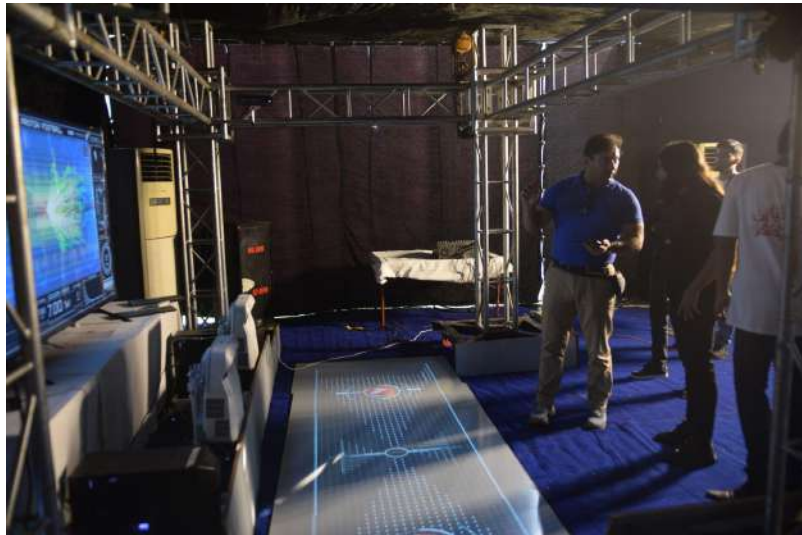
How did it start?

Gamifying particle physics became a captivating reality at the Lahore Science Mela in 2019 through KSS's collaboration with **Dr. Muhammad Sameed** at CERN. This transformative journey began in **January 2019** when Dr. Sameed connected KSS with **Mr. Joao Pequeno**, the leader of the Media Lab at CERN. Joao likes to call himself a 'recovering physicist' and is renowned for his passion to amplify physics, particularly particle physics, using contemporary digital technologies. In March 2019, we extended an invitation to CERN to handhold the building and exhibit the Large Hadron Collider Interactive Tunnel (LIT). CERN accepted our

invitation and we gleefully received Joao as he landed at Allama Iqbal International Airport in the early hours of **8 October 2019**. The collaboration led to the creation of the **Large Hadron Collider Interactive Tunnel (LIT)**, an unprecedented project in terms of financial investment and sophistication for KSS. Under Joao's skillful leadership, the tunnel was built by a dedicated team, including technologists Shahab Ahmed, Mubashra Manzoor, and Abubakar Siddiqi.

The LHC Interactive Tunnel provides a fully immersive gaming experience using accelerometers, motion sensors, short-throw projections, and a large TV screen, educating participants about particle accelerators, collisions, the creation of new particles, the Higgs field, the Higgs boson, and the use of hadrons for healing and therapy. This exceptional display is deployed inside an air-conditioned tent at the *Melas*, and has become a major attraction for the *Mela* visitors.

At Lahore Science Mela 2023, LHC Tunnel and LIT-DISCO setup led by **Syed Tayyab Iftikhar Sherazi, Asad Gill** and other science demonstrators, coupled with Joao's engaging presence, has left an indelible mark, inspiring thousands of young minds to explore the fascinating realms of science and physics.



Joao mentoring LHC team on Day 1



LHC Tunnel &
LIT-DISCO Squad

Tayyab Iftikhar giving a
power-packed
demonstration of
LHC Tunnel



SCIENCI BAITHAK: Meet your Favorite Scientist

Scienci Baithak (**Science Ka Bargad**) at the *Mela*, intended to bridge the gap between scientists and the general public. The idea was to connect renowned scientists, inventors, technologists, entrepreneurs with citizens and students. In this session, experts were seated in the baithak for around a couple of hours and the listeners asked questions and received counsel and advice.



Science Baithak at LSM 2023

Led by **Omaiyma Farida** and **Dur-e-Afaq** Scienci Baithak was an open, no-curtain setting reminiscent of rural Jirgaas under the *Bargad* (banyan) tree, where experts from

various fields gather to solve issues of community. Everyone, from students and teachers to anyone curious, without any age limitations, could engage in one-on-one conversations with the experts.

Read more about this initiative in the report below by **Omaiyma Farida** (Scienci Baithak Team Lead) and her team.

Feedback report: Scienci Baitakh' at Lahore Science Mela 2023

~ Omaiyma Farida (Scienci Baithak Team Lead)

DAY 01:

Although the concept was fairly new, with assistance from the management and efforts by the team, we were successfully able to hold the "Scienci Baithak" day 1. The sessions commenced at 9:30 am and ended by 4:30 pm. At some points there were multiple discussions going on at once.

Major Problems faced:

- Some problems faced by the team on day one included lack of awareness (i.e the people were unaware of the existence of the "Scienci Baitakh" so they had to be dragged to the location).
- Absence of a mic made it difficult for some experts to communicate.
- Some of the sessions were not as question centric as expected.

The bright side:

- The team got to meet such amazing experts and brilliantly inquisitive children.
- There was a lot of intellectual easy breezy discussion between the seasoned scientists and experts.
- One of the attendees: an intermediate student said that she had been attending the mela for the past 3 years, and the "Scienci Baitakh" gave her answers to so many of her unanswered questions!

DAY 02:

On the second day, the "Scienci Baithakh" started around 10:00 am when the crowd started pouring in. The discrepancies from day 1 were compensated graciously by the logistics team, by arranging for a mic and also requesting the experts for more question centric interactions. Resultantly, the sessions were full of some really

interesting questions by little inquisitive minds. The team also took feedback form the attendees on the second day; the positive response of which really boosted our morale. There was a house full in more than 5 of the sessions.

The bright side:

- Some people who came on day 1 actually referred their students, classmates and family members to the 'Science Baithak'.

- Some students who were under a lot of academic pressure actually left the venue with rather hopeful comments.
- The innocent yet inquisitive questions of the younger children actually made both the experts and the volunteers think twice about their own concepts.

Feedback report: Scienci Baithak'

23

Experts who Signed Up

18

Successful Sessions

LINE-UP OF SCIENCI BAITHAK EXPERTS

Javeria Zafar ~ Biotechnology and Chemistry

Prof. Dr. Manzoor Hussain Soomro ~ Science

Education and Awareness/Science Literacy

Suman Mahmood ~ Applied Molecular Biology and Forensic

Dr. Farida Tahir ~ Physics (High Energy Particle Physics)

Dr. Ijaz Ahmed Gors ~ Agricultural waste utilization for biofuels & biomaterials production

Dr. Ishrat Aziz ~ Bioentrepreneurship

Dr. Uzma Hira ~ Chemistry

Rana Zaman Ahmed ~ Relativity, quantum physics, mathematics,

Arooj Mobasher Butt ~ Green Technology & women Leading Sustainability Initiatives and Technology

Salman Younus ~ Water and wastewater purification with the help of plants

Omar Aziz Tipu ~ Aviation – Scale Modeling

Fouz Siddiqui ~ Computational Astronomy & Astrophysics

Dr. Najam Abbas Naqvi ~ Global Navigation Satellite Systems

Dr. Unsar Naeem-Ullah ~ Entomology / Public Health / Agriculture

Dr. Muhammad Waseem ~ Embedded systems for Aerospace and Satellite communication systems

Abdul Waris Hameed ~ Science, ethics and society

Dr. Ishtiaq Ahmed ~ Translation from English to Urdu

Humayoun Huma Maqbool ~

Biology/Zoology/Fish (Ichthyology)/Genetics/Molecular

Faiza Zahra ~ Education Officer at Safari Zoo

Feedback from Volunteers of the Team:

"This is my first time with KSS, I really loved the idea of Scienci Baithak because it was such a unique way to understand science by our experts and everyone can easily question any query. Volunteering with the team helped me in networking, learning and grooming myself personally and professionally. I really enjoyed covering the event and the rest of the team was very professional, hardworking and cooperative and I am looking forward to growing with all of you! 5 /5 stars."

~ Tayyaba

"Volunteering at Scienci Baithak has been an enriching journey. The joy of interacting with both young and senior scientists, and witnessing the boundless curiosity of children, has left an indelible mark on my passion for science.

Each question from the kids is a spark, igniting the flame of exploration. Grateful for the opportunity to be part of this vibrant community."

~ **Faiza Zahra**

"It was a nice experience, I learned a lot. The only thing that I want to suggest is the place and crowd...The place should be near the crowd."

~ **Mahtaab Zafar**

"I wish the place for baithak for the next time would be somewhere more accessible to the public. I literally loved the idea of science baithak because it was such a unique way to make science more interactive, accessible, and easy to digest for everyone. Volunteering with the team helped me in networking, learning and grooming myself personally and professionally. I really enjoyed covering the event through lens and the rest of the team was very professional, hardworking and cooperative. 5 /5 stars."

~ **Suman Mahmood**

"A great learning experience, and even more refreshing and strangely healing. The suggestion is probably more advertisement and probably getting in touch with the schools so that they know of the Scienci Baithak, as several children who actually had so many more questions found the Scienci Baithak at the very end of their day trip and were ushered out by their teachers, some of their questions unanswered."

~**Omaiyma Farida**

Feedback from Experts:

Name	Area of expertise	Views on the concept the Scienci Baithak	Experience	Suggestions on Improvement
Abdul Waris Hameed	Science, Ethics and Society	Really interesting concept. More like a human library	Really good	Maybe a more silent place would help in better communication
Dr. IahishamUl-Haq	Food and Nutrition	It was quite a good effort to engage science enthusiasts and scientists to interact with each other	It was a great experience and the team has organized the event very well	Relevant topics of discussions can be planned and well spread in anticipation to engage more public.
Muhammad Waseem	Aerospace	It was a good initiative and very informative and beneficial for the new generation.	5 star	Invite more schools
Rana Zaman Ahmed	Physics	It was an amazing initiative. Much appreciated. I'll be glad to witness it again.	4/5	It was quite separated from the audience. Maybe if it was near the Audience, it would have been cooler.
Dr. Ijaz Gorsl	Agricultural waste utilization	An appreciable initiative	Good	There should be a traditional HUQQA in the center and people should be sitting around on the floor.

Visuals from some sessions
at Science Baithak at LSM
2023



Soulful Supporters: Mela Volunteers Squad

Our passionate volunteers helped us a great deal before and during the event. They assisted us with social media marketing to create greater visibility, some sent their personally written articles for the blog, some helped us with the event day logistics, some acted as our ambassadors in their respective universities, some guided the visitors and some represented the Khwarizmi Science Society as our demonstrators at our Surpriseum.

This year's volunteer count was around **400**, who were divided into different categories as follows:

- Science Demonstrators Team for KSS's Surpriseum, Planetarium and LHC Tunnel.
- Indoor Sessions Facilitators Team
- Auditorium Team
- Social Media Managers
- Mela Ambiance/ Mela Guide Team
- Security Team
- Logistics Team
- Photographers and Videographers
- Front Desk and Help Desk Teams
- Scienci Baithak (Meet your favorite scientist) Team



Little Volunteer at LSM 2023

Shutter Master: Mela Through the Lens

~ By Salman Mahmood Qazi (Lead Photography Team and Executive Committee Member KSS)

Lahore Science Mela 2023 is growing in versatility with every passing year, how can I not say this? Watching all the macro and micro details of the Mela through the years in the form of the splendid content that my team creates. Learning through the experiences from always passionate resources engaged makes me feel blessed to be part of this greatest festival in Pakistan.



Mela in the Limelight: Press, Interviews, Headlines, Features, & More!

This year's Science Festival received extensive national and local media coverage. Few selected ones are as follows:

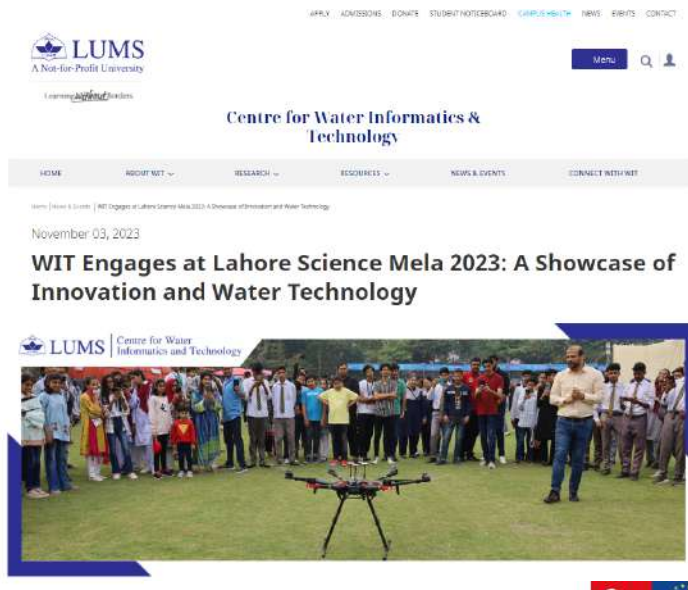
Pre-Event Interviews:

KSS Representatives were interviewed on leading media channels as follows:

- Discover Pakistan
- Pakistan Television Corporation (PTV)
- Lahore Rung
- Suno TV

Event Day and Post-Event Coverage:

Lahore Science Mela received massive media coverage by different media platforms. A few snippets can be seen below. All of the press coverage has been consolidated on the webpage: [LINK](#)



The Institute of Physics at The Islamia University of Bahawalpur participated in the Lahore Science Mela, organized by the Khwarizmi Science Society.

U of U Bahawalpur

Programme Data | Missions | Partnerships | Allocations | Tutorial supports | ERM Project | Q

Lahore Science Mela'23

اپنی دنیا آپ پیدا کر

12 July 2023

The Lahore Science Mela, which will take place on October 20-21, 2023, is an annual science festival held in Lahore, Pakistan. The event aims to popularize science and technology, increase scientific awareness, and encourage young people to engage in scientific exploration.

The Lahore Science Mela offers numerous interactive exhibitions, experiments, workshops, seminars, conferences, and shows related to science and technology. Participants have many opportunities to acquire knowledge about scientific discoveries, conduct experiments, and meet inspiring scientists. The event is typically attended by families, students, and science enthusiasts.

The Lahore Science Mela is supported by scientists, researchers, educators, and students from various disciplines. The event usually features exhibitions and activities focused on different fields of science, such as biology, chemistry, physics, mathematics, engineering, computer science, and environmental science. These types of science festivals not only encourage young people to take an interest in science and technology but also promote scientific thinking and facilitate the development of innovative ideas. Additionally, they can serve as a source of inspiration for students considering a career in science or aspiring to conduct scientific research. By bringing together the scientific community in the region, the Lahore Science Mela contributes to the advancement of science and raises scientific awareness in society.

For detailed information about the event, you can visit their website: <https://kssm.org/>

LATEST EVENTS

20 November 2022	BIT Manufacturing Summit
21 November 2023	EUSPA Space Downstream Innovation Day, 21 November, Prague
21 November 2023	ERA Chairs Webinar - 21 November 2023

Events List

Part 04

Data Analysis: Where do we stand?

- Visitor Count ([page link](#))
- Exhibitor Count (excluding Schools) ([page link](#))
 - Increased number of Exhibitors over the years ([page link](#))
- What Tomorrow's Scientists are doing Today: Participation of Schools ([page link](#))
- Advocating for Recognition: from Secretaries of Education ([page link](#))
 - LSM 2019 Collaboration ([page link](#))
 - Mela 2023 scenario: No response & Major constraints ([page link](#))
 - Silence from Leading "Very High-Fee Private Schools" and Institutes ([page link](#))
- Geographical Diversity ([page link](#))
- Enabling People: Support by KSS ([page link](#))
- Gender Harmony in Action: Diverse Volunteer Landscape at Mela ([page link](#))

Dr. Mustafa with LSM 2023 Volunteers squad



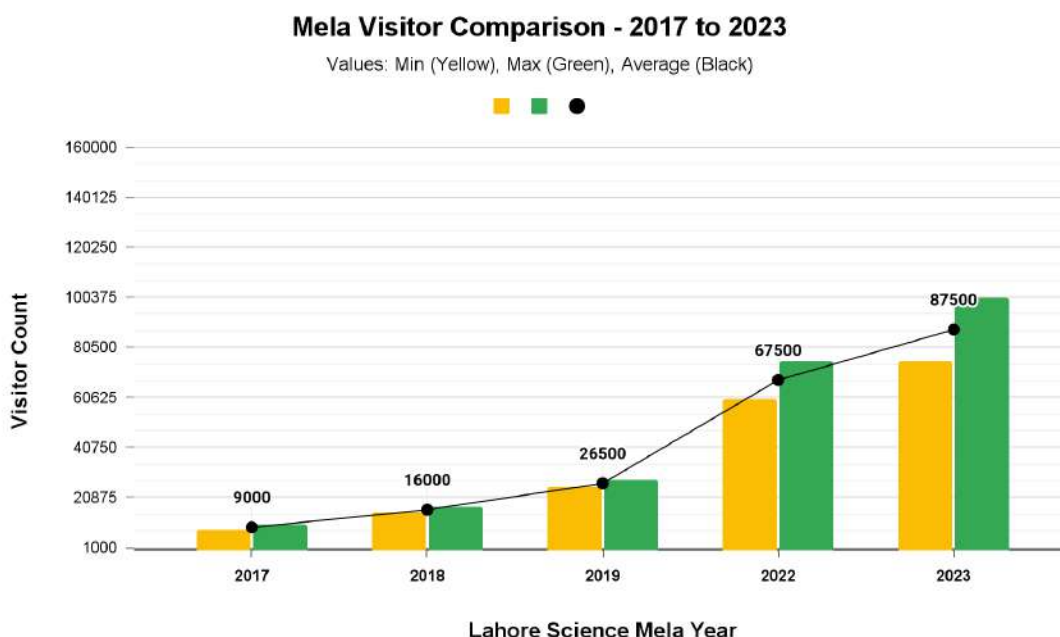
Data Analysis: Where do we stand?

We would like to take this moment to reflect on the remarkable journey and draw comparisons over the years. Each chapter of the *Mela* has reflected growth, innovation, and the unwavering commitment to fostering scientific curiosity. Over the years, the *Mela* has not only expanded in scale but has also deepened its impact, engaging diverse audiences and sparking an ever-growing interest in the wonders of science. Lahore Science *Mela*'s fifth chapter stands as a milestone, highlighting the continuous progression and its significance in inspiring and educating individuals beyond barriers.

Statistical Features	LSM 2017	LSM 2018	LSM 2019	LSM 2022	LSM 2023
Visitor Count	8,000 to 10,000	15,000 to 17,000	25,000 to 28,000	60,000 to 75,000	75,000 to 100,000
Exhibitor Count	42	48	54	80	100
Schools participated	10	33	61	30	33
Sponsors	01	02	06	18	18

Visitor Count:

One particularly intriguing aspect lies in the evolution of visitor counts, witnessing the event's increasing resonance within the community. From its inception, the event has seen a steady rise in attendance, attracting a diverse array of visitors from across Pakistan, eager to explore the wonders of science. The upward trajectory in visitor count, from 8,000 visitors in 2017 to around 150,000 visitors in 2023, reflects not only the expanding reach of the *Mela* but also its effectiveness in captivating the curiosity of a broader audience. Check the comparison graph below:



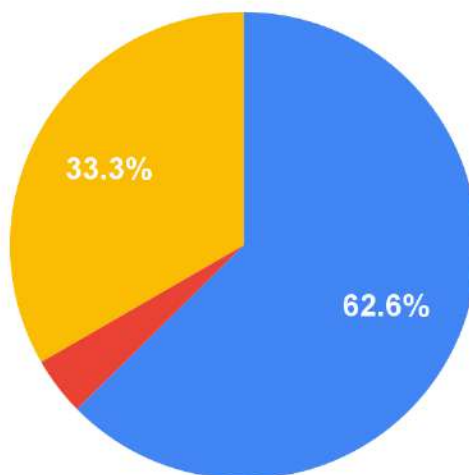
Exhibitor Count (excluding Schools):

Lahore Science Mela 2023 showcased an impressive participation of around 100 entities, encompassing organizations, individuals, startups, and educational institutes. Additionally, having out-of-station exhibitors and national museums participating adds an exciting dimension. Let's look at the division of exhibitors who participated in LSM 2023.

Exhibitors Divisions

Lahore Science Mela 2023

- National & International Organizations, Startups, Institutes, Individuals (62)
- Museums (4)
- Educational Institutes (Universities & Colleges) (33)



LSM'23 Exhibitor details are as follows:

National & International Orgs., Startups, Institutes, Individuals				
No.	Exhibitor Name		Exhibit Title	
1	International Plastic Modellers' Society (IPMS)		ماڈل جہاز	
2	Pakistan Science Foundation	پاکستان سائنس فاؤنڈیشن	Science Caravan Exhibition (Mobile Bus and Planetarium Show)	
3	PCSIR		پاکستان کونسل آف سائنٹیفک اینڈ انڈسٹریل ریسرچ (PCSIR)	
4	Muhammad Shaheer Niazi	شہیر نیازی	Treasures of Pakistan	پاکستان کے خزانے
5	eLearn & eLibrary, PITB	پاکستان انفارمیشن ٹیکنالوجی بورڈ (PITB)	Digital Content Services	
6	Pakistan Amateur Radio Society	پاکستان امیچور ریڈیو سوسائٹی	When all else fails	
7	National Institute of Oceanography		قومی ادارہ بحریات	
8	World Wide Fund for Nature (WWF) – Pakistan			
9	Pakistan Meteorological Department			
10	TDF MagnifiScience Travels		Animal Superpowers	جانوروں کی سپر پاور
11	Punjab Safe Cities Authority	پنجاب سیف سٹیز اتھارٹی	Beginning of a new police culture	نئے پولیس کلچر کا آغاز

12	PASBAN		NeuroVista, the inner universe	علوم الاعصاب
13	digilog.pk		Learn By Doing	کریں اور سیکھیں
14	Chughtai Public Library	چغتائی پبلک لائبریری	Young Scientist Chughtai Public Library	نئے سائنس دان
15	7th Reality		Computer vision Machine learning and AI	کمپیوٹر وژن مشین لرننگ اور اے آئی
16	Robotmea Middle East Africa and Pakistan			
17	TechArm Marvels:		Next-Gen Advancements in Prosthetic Control	پرو سٹھٹک کنٹرول کی نئی ترقیاں
18	Aero Engine Craft		جہازوں کے انجن	
19	MK Hobbies		ماڈل جہاز	
20	Lahore Astronomical Society (LAST)		لاہور فلکیاتی سوسائٹی	
21	Awab Ahmad Jamal	اواب احمد جمال	Rocket launching and remote car	راکٹ لانچنگ اور ریموٹ کار
22	Lahore Virsa		لاہور ورثہ	
23	ArtRatan		آرٹ رتن	
24	Pakistan Atomic Energy Commission (PAEC)		Nuclear Science & Technology in the service of Mankind	نیوکلیئر سائنس اور ٹیکنالوجی برائے انسانی خدمت
25	Chughtai Lab	چغتائی لیب	Pathology: A bridge between science and medicine	پیتھالوجی: سائنس اور میڈیسن کے درمیان ایک پل
26	Children Library Complex, Lahore	چلڈرن لائبریری کمپلیکس	Let's explore insects with CLC	آؤ کیڑوں کے بارے میں جانیں
27	Aim of Awareness		مقصد آگہی	
28	Schoolgram: Powered by Arbisoft		سکول گرام	
29	MLT Research and Diagnostic Consultancy Services		Mustafa Lab Technologies	مصطفیٰ لیب ٹیکنالوجیز
30	Jamia Bait Ul Noor	جامعہ بیت النور	Robots of Bait Ul Noor	بیت النور کے روبوٹ
31	NCGSA		Build your own Satellite : The CANSAT	آؤ اُزن طشتری بنائیں
32	Allama Iqbal Stamps Society	علامہ اقبال سٹمپ سوسائٹی	Philatelic and Numismatic Exhibition	ڈاک ٹکٹوں سے متعلقہ اشیا، سکوں اور کرنسی نوٹوں کی نمائش
33	Tamir e Khodi ilm o Huner markaz		تعمیر خودی علم و ہنر مرکز	
34	Kainaat Studios		کائنات اسٹوڈیوز	
35	Hobby Lobby			
36	Exploration - Cosmos to Classroom		ٹوٹتے تارے	
37	British Council			

38	Cosmic Perspective			
39	Science Fuse		سائنس فیوز	
40	The STEM Educators		اسٹیم ایجوکیٹرز	
41	Veterinary Research Institute, Lahore			
42	Hast-o-Neest Institute of Traditional Studies & Arts	ہست و نیست	Islamic Cosmology - Art, Science & Society	اسلامی نظریہ کائنات علوم، فن اور معاشرہ
43	Aga Khan Development Network Board		The Role of Science in the Preservation of Culture	ورثے کی حفاظت میں سائنس کا کردار
44	Model Aeronautics Foundation Lahore			
45	Yasir Javed	یاسر جاوید	The Pragmatic Show From Books to Breadboard	کتابوں سے بریڈ بورڈ تک کی عملی نمائش
46	Bonsai Society of Lahore		بونسائی سوسائٹی آف لاہور	
47	Anabia suhail	انابیہ سہیل	Human Eye Anatomy	انسانی آنکھ کی ساخت
48	The Tiny Learners		Storytelling in Math and Science	ریاضی اور سائنس کی کہانیاں
49	Stem Rover		STEM Mela	سٹیم میلہ
50	Audacity Labs		Science Fiction Prototyping	
51	InsuTank		Water and Electricity Saving Water Tank	انسوٹینک: پانی اور بجلی کی بچت کرنے والا پانی کا ٹینک
52	Shah Rahim	شاہ رحیم	Discovery of AI, IoT, and Robotics	IoT، انٹرنیٹ برائے آلات، مصنوعی ذہانت اور روبوٹکس کی دریافت
53	Azaz Ahmad		Reptiles of Wild	کیڑوں کی دنیا
54	Winski - Women in Science		سائنس میں خواتین - Winski	
55	Astrophy Quench (School of Astronomy and Physics)		فلکیاتی تجسس	
56	House of Learning		Transforming Nations Digitally through STEM Education	
57	Birds Exotica		Saad Farooq	
58	Robosticks			
59	Smart Learning Institute	Smart Learning Institute	دریافت کریں جدت کے ساتھ	
60	Allied Bank Limited			
61	National Centre for Physics (NCP), Islamabad		قومی مرکز برائے طبیعیات، اسلام آباد	
62	Skill2Success	AR Coding Magic with Science Fun	کوڈنگ کا جادو، سائنس کی مستی	

Museums				
No.	Exhibitor Name		Exhibit Title	
1	Pakistan Museum of Natural History			
2	Stephenson Natural History Museum, GCU		سٹیفنسن نچرل ہسٹری میوزیم گورنمنٹ کالج یونیورسٹی لاہور	
3	National Museum of Science and Technology		قومی عجائب گھر برائے سائنس اور ٹیکنالوجی	
4	National History Museum (NHM)	(NHM) نیشنل ہسٹری میوزیم	National History Museum Presents: The Progression of Science in Pakistan	پاکستان میں سائنس کی ترقی

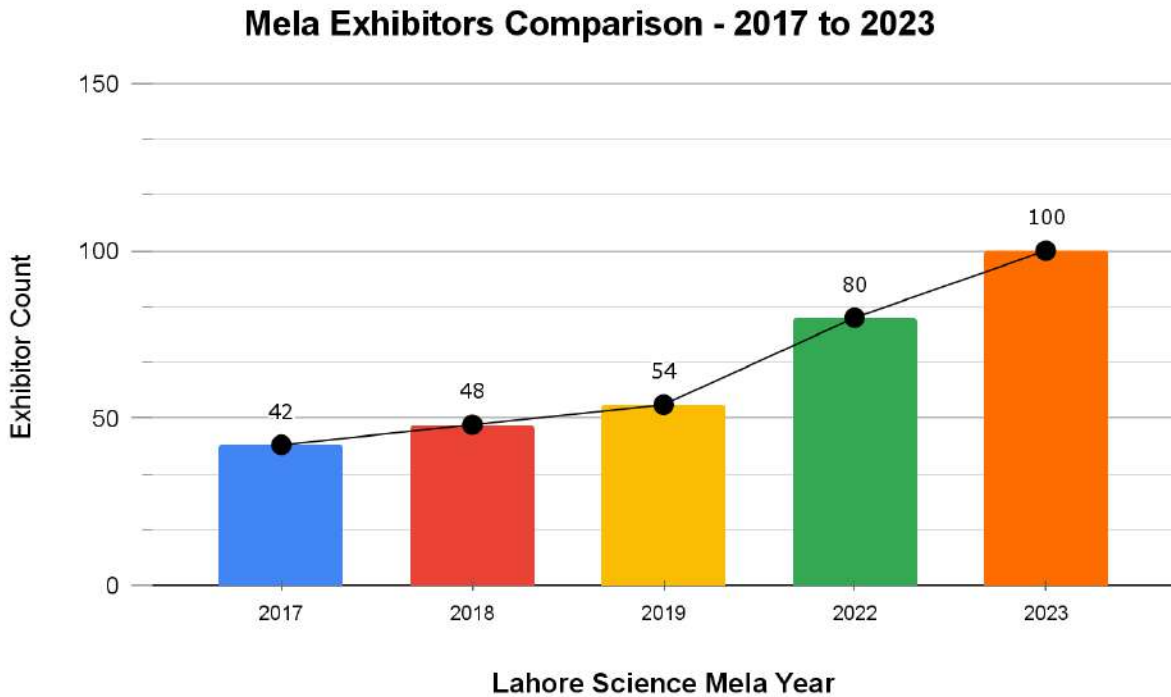
Educational Institutes (Universities & Colleges)				
No.	Exhibitor Name		Exhibit Title	
1	Math Circles LUMS			
2	Institute Of Agriculture Sciences & Forestry, University Of Swat, Charbagh District Swat	یونیورسٹی آف سوات	Trees , The Story Tellers	درختوں میں چھپی کہانیاں
3	PASBAN, Aga Khan University		NeuroVista, the inner universe	علوم الاعصاب
4	Space Research Center (SRC- UCP)		خلائی تحقیقی مرکز یونیورسٹی آف سنٹرل پنجاب (UCP)	
5	Institute of Physics, The Islamia University of Bahawalpur		انسٹی ٹیوٹ آف فزکس، اسلامیہ یونیورسٹی بہاولپور	
6	OmniLife VR, FCCU		Step into Another Dimension, with OmniLifeVR FCCU.	محاذی دنیا کا سفر
7	Interdisciplinary Research Centre in Biomedical Materials, COMSATS		Biomedical Materials-Lab to Patient	بایومیڈیکل میٹریلز- تجربہ گاہ سے مریض تک
8	Department Of Mechatronics and Control Engineering, UET	ڈیپارٹمنٹ آف میکاترونکس اینڈ کنٹرول انجینئرنگ، یو ای ٹی لاہور، پاکستان	میکاترونکس فیملی	
9	Space Research Center (SRC-UET)		خلائی تحقیقی مرکز لاہور، (UET) یونیورسٹی آف انجینئرنگ اینڈ ٹیکنالوجی	
10	Centre for Water Informatics & Technology, LUMS		مرکز برائے آبی اطلاعات و ٹیکنالوجی	
11	Automotive Engineering Centre, UET Lahore		لاہور، (UET) یونیورسٹی آف انجینئرنگ اینڈ ٹیکنالوجی	
12	PMAS Arid Agriculture University Rawalpindi		بارانی زرعی یونیورسٹی راولپنڈی	
13	Institute of Polymer and Textile Engineering, University of the Punjab	پنجاب یونیورسٹی	Waste polymers based polymer modified concrete	فضلہ پولیمر پر مبنی پولیمر ترمیم شدہ کنکریٹ
14	Dr. Murtaza Taj, LUMS	ڈاکٹر مرتضیٰ تاج، LUMS	Let's make cameras	آؤکیرہ بنائیں
15	Dr. Shahana Khurshid	ڈاکٹر شہانہ خورشید	Air Quality and Carbon Dioxide (CO2)	فضائی آلودگی اور کاربن ڈائی آکسائیڈ کی مقدار

			Measurement	
16	Department of Chemistry and Chemical Engineering, LUMS, Salman Noshear Arshad		Seeing the Unseen	عکس جہانِ نادیدہ
17	Department of Life Sciences, LUMS		Brainwave Odyssey: A Glimpse via EEG	دماغ کی لہریں
18	Integrated Engineering Centre of Excellence, UOL			
19	Information Technology University, Lahore	لاہور، (ITU) انفارمیشن ٹیکنالوجی یونیورسٹی	Printed and Flexible electronics for field and medical applications	طبیات کے لیے پرنٹ شدہ اور لچکدار الیکٹرانکس
20	Nonagon, Business Incubation Center, UET	بزنس انکوبیشن سینٹر، یونیورسٹی آف لاہور، (UET) انجینئرنگ اینڈ ٹیکنالوجی	Nonagon Solutions	نونگون سولوشنز
21	Elements Learning Pvt. Ltd, NUST		Maths and Science Redefined	
22	Cyber Security Society, UCP	سائبر سیکیورٹی سوسائٹی	(UCP) یونیورسٹی آف سنٹرل پنجاب	سائبر سیکیورٹی سوسائٹی
23	Government College University, Lahore		گورنمنٹ کالج یونیورسٹی، لاہور	
24	Govt College of Technology (GCT), Naveed Ahmad, Pindi Bhatian, Hafizabad	گورنمنٹ کالج آف ٹیکنالوجی، پنڈی بھٹیاں حافظ آباد	Engineering Technology	انجینئرنگ ٹیکنالوجی
25	GCT For Women, Gujrat	گورنمنٹ کالج آف ٹیکنالوجی، برائے خواتین، گجرات	Drive your car without the fuel	خوش نما رنگوں کے سنگ اور بنا ایندھن کی گاڑی
26	GCT Lahore, Muhammad Sherhroz Shahid	گورنمنٹ کالج آف ٹیکنالوجی، لاہور	Hybrid Electric Bike	
27	GCT Jauharabad, Abdullah Adam	گورنمنٹ کالج آف ٹیکنالوجی، جوہر آباد	Suspension Bridge	سسپنشن پل
28	GCT Jhelum, Zeeshan Asghar	گورنمنٹ کالج آف ٹیکنالوجی، چک دولت، جہلم	Life With Technology, Techlife Smart Car	زندگی ٹیکنالوجی کے ساتھ اور سمارٹ کار
29	GCT Rawalpindi, Nabeel Asif	گورنمنٹ کالج آف ٹیکنالوجی، راولپنڈی	Automatic Star Delta Starter	
30	GCT Rawalpindi, Saqib fayyaz	گورنمنٹ کالج آف ٹیکنالوجی، راولپنڈی	Working Replica of Power Transformer, Smart Electric Appliance Control through WIFI and Touch Pad	پاور ٹرانسفارمر اور وائی فائی کے ذریعے اسمارٹ الیکٹریک ایپلائنس کا کنٹرول
31	GCT Chakwal, Ajmal Khan	گورنمنٹ کالج آف ٹیکنالوجی، چکوال	Ingenious Vending and CNC Engraving Machine	
32	GCT Mianwali, Engr Muhammad Ulfat khan	گورنمنٹ کالج آف ٹیکنالوجی، میانوالی	Home Appliance Control through Wifi, Self control Irrigation System	گھریلو الیکٹریکل آلات کا موبائل فون سے کنٹرول اور خود کار الیکٹریکل ٹریبان
33	King Edward Medical University			

Increased number of Exhibitors over the years:

A significant fact is that the Lahore Science Mela has earned a distinctive place in the society, evident from the growing number of exhibitors. People now proactively reach out to participate. This organic interest underscores the Mela's pivotal role as a dynamic platform for collaboration, knowledge exchange, and the celebration of science.

Let's look at the comparison of Mela Exhibitors (excluding schools) over the years:



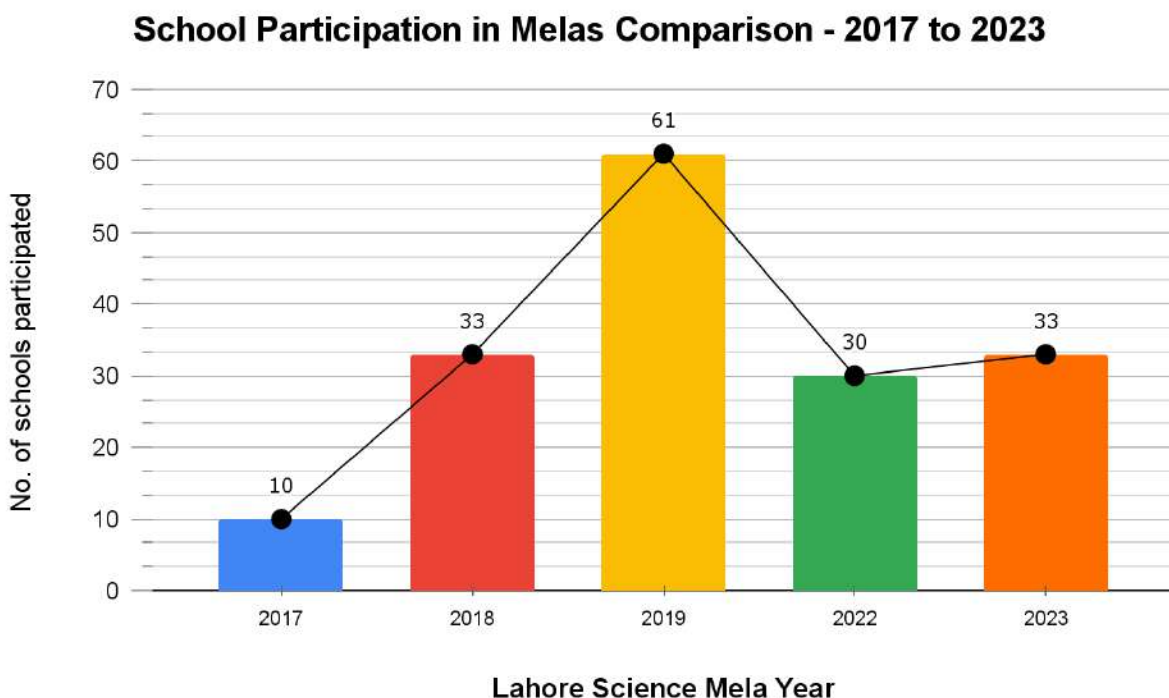
What Tomorrow's Scientists are doing Today: Participation of Schools

Lahore Science Melas also provide opportunities to all schools across Pakistan to exhibit and participate at the Mela. A total of **33** schools participated in LSM 2023:

Schools		
No.	Exhibitor Name	
1	Aalam Bibi Taleem-O-Tarbiyat school	عالم بی بی تعلیم و تربیت
2	Al-A'la International Islamic School	الاعلیٰ انٹرنیشنل اسلامک اسکول
3	Cadet College Hasan Abdal	Aerobotonics
4	Allied School	الائیڈ اسکول

5	Akhuwat College, Kasur	اخوت کالج قصور
6	Dar e Arqam Boys High School, Sabzazar	دارِ ارقم بوائز ہائی اسکول سبزآزار
7	Dar e Arqam Airport Branch	دارِ ارقم ایئرپورٹ برانچ
8	Dar-e-Arqam School Glaxo Town	
9	DHA Cambridge Campus	ڈی ایچ اے کیمبرج کیمپس
10	Gosha e Atfal Girls High School	گوشہ اطفال گرلز ہائی اسکول
11	Harsukh School	ہر سکھ اسکول
12	Homeschoolers	
13	Humaira Riaz High School	حمیرا ریاض ہائی اسکول
14	KIPS School Canal Side Campus	
15	Little Stars Home School, Vehari	لٹل سٹارز کی کاوشیں
16	PAF College, Sargodha	پی اے ایف کالج سرگودھا
17	Shah latif Model High School, Daharki	شاہ لطیف ماڈل ہائی اسکول ڈہرکی
18	TAKMIL Foundation	تکمیل فاؤنڈیشن
19	The Prism School	
20	The Trust School	دی ٹرسٹ اسکول
21	Divisional Public School	ڈویژنل پبلک اسکول
22	The Punjab School	دی پنجاب اسکول
23	Akbari Public School Shad Bagh Lahore	اکبری پبلک اسکول شاد باغ
24	Crescent Kids Campus	کریسنٹ کڈز کیمپس
25	Deen schooling system	دین سکولنگ سسٹم
26	Govt Yasmin Islamia Girls High School Lalpul	گورنمنٹ یاسمین اسلامیہ گرلز ہائی اسکول
27	Kawish Iqra School	کاوش اقرا اسکول
28	Govt. Queen Mary College	گورنمنٹ کوئین میری کالج لاہور
29	Rakan Grammar School	رکن گرامر اسکول
30	Sharif Education Complex	شریف ایجوکیشن کمپلیکس
31	Unschoolstory : Spark the Joy of Learning	
32	Smart Learning Institute	
33	Crescent Model Higher Secondary School, Shadman, Lahore	

Now let's look at the comparison of School Participation over the years:



Advocating for Recognition: from Secretaries of Education

The participation of schools in the Lahore Science *Mela* has been a consistent and integral aspect of the event's success. Over the years, the organic reach of the *Mela* has played a pivotal role in maintaining this steady participation.

LSM 2019 Collaboration:

In **2019**, a significant milestone was achieved as KSS collaborated with the **Secretary School Education Department of Punjab**. This collaboration resulted in notifications being sent to schools across all 36 districts of Punjab, leading to the highest number of school participation that year. The collaboration extended further, with KSS mentoring student and teacher teams from various schools, facilitated by the government's support. Unfortunately, in the subsequent two years, such governmental assistance and response were not witnessed.

Mela 2023 scenario: No response & Major constraints

For the **2023 Mela**, letters and invitations were extended to all provincial secretaries of education, such as Secretary School Education Government of **Gilgit-Baltistan**, Secretary Elementary & Secondary Education Department **Government of Khyber Pakhtunkhwa**, Secretary School Education Department **Punjab** and Secretary School Education And Literacy Department Government Of **Sindh**, yet no response was received. While some government schools expressed interest in participating, **procedural constraints without official notification from higher authorities** hindered their involvement. This highlights the **potential**

for expanding the reach of knowledge and support if government backing is secured, turning it into a revolutionary force with a broader impact.

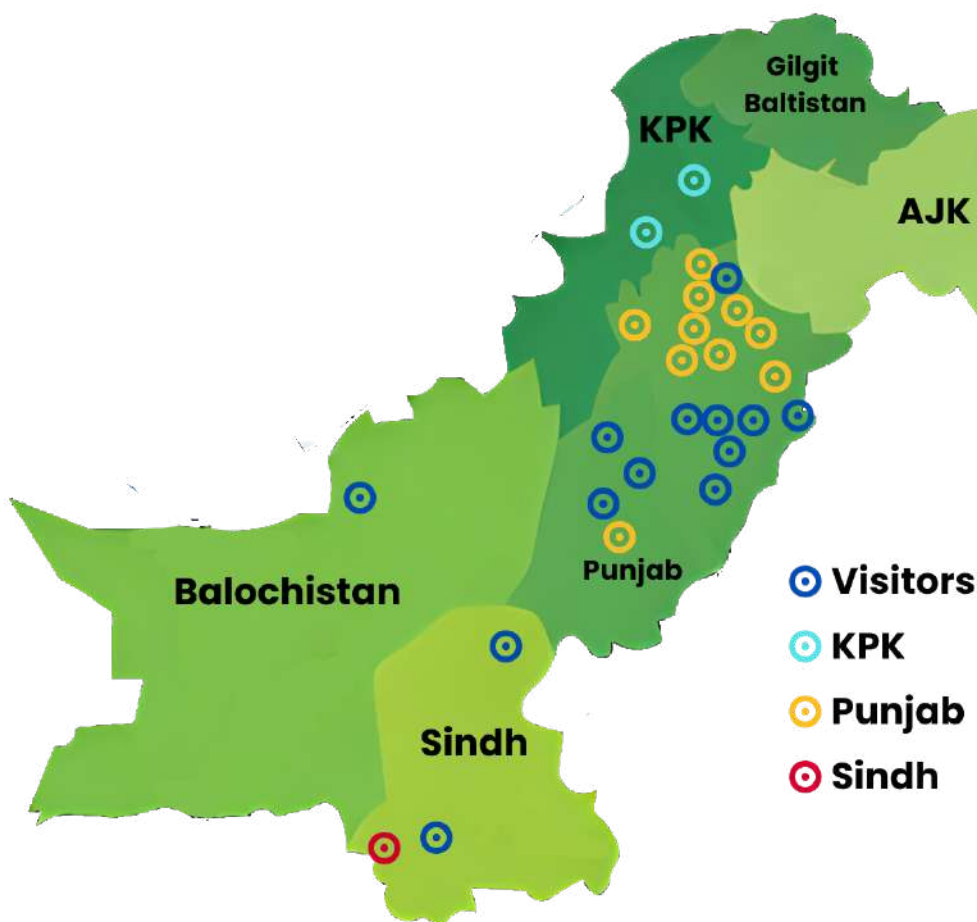
Silence from Leading “Very High-Fee Private Schools” and Institutes:

On a concerning note, the data underscores the limited or absent participation from leading “Very High-Fee Private Schools”, especially in Lahore, despite the international scope of LSM. Although invitations are consistently extended to such institutions through various channels, no response has been received over the years. This raises a perplexing question about the reasons behind the non-participation of such leading “Private Schools”. The potential contribution of students from these schools, who often engage in international projects and events, would be eagerly welcomed by the *Mela’s* core team.

Geographical Diversity:

The geographical diversity of exhibitors and schools participation in this year’s *Mela* was also noteworthy, which contributed to the vibrant tapestry of the *Mela* and provided a rich and varied learning experience.

Let’s look at the geographical aspects of participants of LSM 2023.



Exhibitors participated from the following different regions across Pakistan:

Area	No. of Exhibitors
Punjab	52
Islamabad, Punjab	9
Sindh	3
KPK	2

Universities geographical details who participated in LSM'23 as exhibitors from different regions across Pakistan:

Sr. No.	University	Area
1	LUMS - Lahore University of Management Sciences.	Lahore, Punjab
2	University of Central Punjab, UCP	Lahore, Punjab
3	Forman Christian College, University, FCCU	Lahore, Punjab
4	COMSATS University Islamabad, CUI	Lahore, Punjab
5	University of Engineering and Technology, UET	Lahore, Punjab
6	University of the Punjab, PU	Lahore, Punjab
7	The University of Lahore, UOL	Lahore, Punjab
8	Information Technology University, ITU	Lahore, Punjab
9	Government College University Lahore, GCUL	Lahore, Punjab
10	Govt. College of Technology	Lahore, Punjab
11	King Edward Medical University	Lahore, Punjab
12	National University of Sciences & Technology, NUST	Islamabad, Punjab
13	The Islamia University of Bahawalpur	Bahawalpur, Punjab
14	PMAS Arid Agriculture University Rawalpindi	Rawalpindi Islamabad, Punjab
15	Government College Of Technology Pindi Bhattian (GCT)	Pindi Bhattian, Hafizabad, Punjab
16	Govt College Of Technology for Women	Gujrat, Punjab
17	Govt College of Technology Jauharabad	Sargodha, Punjab
18	Government College of Technology Jhelum	Chak Daulat, Jhelum, Punjab
19	Government College of Technology (GCT), Rawalpindi	Rawalpindi, Punjab
20	TEVTA GCT Chakwal	Chakwal, Punjab
21	Govt College of Technology Mianwali	Mianwali, Punjab
22	University Of Swat	Swat, Khyber Pakhtunkhwa

Schools geographical details who participated in LSM'23 from different regions across Pakistan:

From a total of **33 Exhibiting Schools**, **07** Schools came from other cities and areas other than Lahore. Their details are as follows:

No.	School Name	Area
1	Cadet College Hasan Abdal	Hassan Abdal, Attock, Punjab
2	Akhuwat College, Kasur	Kasur, Punjab
3	Harsukh School	Thetar Village, Punjab
4	Little Stars Home School, Vehari	Vehari, Punjab
5	PAF College, Sargodha	Sargodha, Punjab
6	Shah Iatif Model High School, Daharki	Daharki, Ghotki, Sindh
7	TAKMIL Foundation	Students from All over Pakistan

Visitors geographical details who participated in LSM'23 from different regions across Pakistan:

KSS Team received **42** responses on the Visit as an organization form. Volunteers were appointed to contact respective people and they were catered on the days of *Mela*. Their details are as follows:

No.	Response Received	Area
1	A&A MONTESSORI SCHOOL SYSTEM DAD LAGHARI DIST.GHOTKI SINDH	Ghotki, Sindh
2	Aspire College Pindi Bhattian	Jhang, Punjab
3	Rising Kids School System (Iqbal Campus , Boys Branch)	Lahore, Punjab
4	AlBarkat Grammar Girls Higher Secondary School	Lahore, Punjab
5	Tabindah Model Higher Secondary School Burewala	Vehari, Punjab
6	Al-Haram School System Kabirwala	Kabirwala, Punjab
7	Institute of Polymer and Textile Engineering University of the Punjab Lahore	Lahore, Punjab
8	DHA Cambridge Campus	Lahore, Punjab
9	Rising Kids School System (Jinnah Campus)	Lahore, Punjab
10	Iqra huffaz girls secondary school and college	Lahore, Punjab
11	Jinnah Grammar School	Lahore, Punjab
12	Light of Hope School, FCCU	Lahore, Punjab
13	Beaconhouse SA Gardens	Lahore, Punjab
14	Scarsdale International School	Lahore, Punjab
15	KIPS School CSC	Lahore, Punjab
16	Infinity Learning Space, Jaggoowali	Jaggoowali, Punjab
17	Khalid Secondary School	Lahore, Punjab
18	Evacuee Trust Property Board, Lahore	Lahore, Punjab

19	Sharif Education Complex Raiwind Lahore	Lahore, Punjab
20	Garrison Group of Schools Kot Sultan Disst. Layyah	Layyah, Punjab
21	Precision Academy	Lahore, Punjab
22	Govt, Public High School Wzd	Gujranwala, Punjab
23	Iqra huffaz girls secondary school	Lahore, Punjab
24	Balance Learning Facilitation center	Sialkot, Punjab
25	Ad Alta School, Sahiwal	Sahiwal, Punjab
26	Al Rehman Model high school pattoki	Pattoki, Punjab
27	Iqra roza atfal	Lahore, Punjab
28	Iqra huffaz school Mansoor Homes Multan Road	Lahore, Punjab
29	Wapda girls high school allama iqbal town lahore	Lahore, Punjab
30	Ad Alta School	Sahiwal, Punjab
31	Iqra huffaz girls secondary school Rajgarh	Lahore, Punjab
32	Verita Training Institute	Lahore, Punjab
33	Himayat.E.Islam Degree College lahore	Lahore, Punjab
34	Iqra Huffaz Secondary School kasur boys	Kasur, Punjab
35	Tareen Education Foundation (TEF)	Lahore, Punjab
36	Al Beruni International School Lahore	Lahore, Punjab
37	Al-khidmat High school khursheed beghum girls campus	Lahore, Punjab
38	School for Contemporary and Islamic Learning	Lahore, Punjab
39	Government Central Model School Samanabad Lahore	Lahore, Punjab
40	SundarSTEM	Lahore, Punjab
41	Govt.milli Dar ul atfal ghs raj garh lahore	Lahore, Punjab
42	FG PHS BOYS No 1 LHR	Lahore, Punjab

The **Pak Alliance for Maths and Science (PAMS)**, STEAM Pakistan, also supported different schools across Pakistan to visit Lahore Science Mela 2023. Their details are as follows:

Institute	District	School
Federal Directorate of Education (FDE), Islamabad	Islamabad, Punjab	Islamabad Model College for Girls Humak (Sihala)
		Islamabad Model School for Girls (VI-X) G-6/2 (Urban I)
		Islamabad Model College for Girls F-6/2 (Urban I)
		Islamabad Model School for Girls (I-X) NHC (Bhara Kahu)
		Islamabad Model School for Girls Jhangi Syedan (Tarnol)
Federal Government Educational Institutions (FGEI)	Rawalpindi, Punjab	FG Fazaia 2nd Shift Jinnah Camp, Chaklala
	Rawalpindi, Punjab	FG Sir Syed Public School (Girls) ,Rawalpindi
	Multan, Punjab	FG SMHS (N.H) Public School (Girls), Multan
	Quetta, Balochistan	FG Public School (Boys) Tufail Road Quetta Cantt
School Education	Lahore, Punjab	Govt Girls High School, Shalimarr Town, Lahore

Department,Punjab	Faisalabad, Punjab	Govt Girls Comprehensive Middle School 229/RB, Faisalabad
School Education & Literacy Department, Sindh	Hyderabad, Sindh	Govt Girls High School, Latifabad no 10, Hyderabad

Enabling People: Support by KSS

Lahore Science Mela is regarded as the platform that provides people an opportunity to learn new concepts and present their inner scientists but that accounts for just the first step. Another crucial step is to make it accessible and enable people to become a part of it. To honor the interest of people, children and students from the far-flung areas of Pakistan, KSS provides financial support to cover up the travel and accommodation expenses of some of the participants and volunteers depending on the resources available.

~01 Million PKR

Dedicated to support travel of some of the Mela Participants

Details of support provided to participants of Lahore Science Mela 2023 are as follows:

TAKMIL Foundation:

This year once again, TAKMIL Students filled colors in the Mela horizon with their interactive displays and presence.

14 TAKMIL students from various regions in Pakistan, including KPK, Balochistan, Sindh, and Punjab exhibited AI neural network and human intelligence model.

Read about the story of the Girl named Sadia from Khuzdar Balochistan who visited Mela for the first time: [LINK](#)



Shah Latif Model High School: Daharki, Sindh

07 students from Shah Latif Model High School participated as exhibitors in the Lahore Science Mela 2023. Daharki is a city in Ghotki District in the Sindh province of Pakistan. The students from Shah Latif school exhibited projects on Sensor based Automatic Gas Leakage Detector, Preparation of LPG from Petrol and Water, Electroplating by Electrolysis and Fingerprint detection.

Photos from their Facebook page reflects the true joy of being part of the *Mela*, from getting on a bus to Lahore to finally interacting with hundreds of visitors at their stall and being able to present their ideas. Truly inspirational to see! Facebook page: [Link](#).



Little Stars Home Orphanage: Burewala, Vehari

40 Children and students from Little Stars Home Orphanage participated in the *Mela* as exhibitors. Burewala, is a city of Vehari District in Punjab, Pakistan. We truly encourage the efforts of their team who are doing this exceptional work and are giving wings to the dreams of these kids.

A&A Montessori School System: Dad Laghari, Ghotki, Sindh

06 students from A&A Montessori School System, Dad Laghari participated in the *Mela*. The principal of the school Mr. Abdul Qadeer Pitafi reached out to the KSS team and presented his interest in visiting the Lahore Science Mela 2023 along with some of the students from their school. He mentioned how the students have never experienced such events and wanted to visit the *Mela*.

Shakargarh:

260 Students from different Government schools of Bua, Shakargarh visited the *Mela*. Back in 2022, KSS had organized the Shakargarh Science Mela for these inquisitive minds!

National Institute of Oceanography: Karachi

Representatives from National Institute of Oceanography (NIO) joined LSM 2023 as exhibitors for the first time, where they opened doors for the public to peek into the exciting research being done at NIO. Mr. Zeeshan from NIO also gave an interactive auditorium session on the projects of NIO and the work being done in Pakistan.

Volunteer Incentives

KSS duly salutes and encourages the efforts of the volunteers of the *Mela* who were there to make it all happen. KSS facilitated the travel of around **30** Science Demonstrators of Hairat ghar who were regularly visiting the LSM Venue (Crescent Model Higher Secondary School) since September to prepare and practice various demonstrations for KSS Surpriseum. The provided amounts served as travel allowances to cover up their travel expenses to and from the Venue.

Gender Harmony in Action: Diverse Volunteer Landscape at Mela

Active participation of female volunteers spanned across the *Mela* teams, from organizing and managing exhibits to facilitating workshops and engaging with visitors. Women definitely played a pivotal role in steering the success of the *Mela*.

Notably, more than **60%** of the volunteers in KSS Surpriseum (Hairat Ghar) were enthusiastic and dedicated female volunteers.

See the consolidated data of Female Volunteers here: [Link](#)

MEET THE TEAM: Lahore Science Mela 2023

Sr. No.	Name	Designation
General Team		
1	Dr. Shahid Atiq	President
2	Charisma Wafee	Vice President
3	Dr. Muhammad Sabieh Anwar	General Secretary
4	Mohsina Asif	Science Communicator
5	Amna Lal Hussain	Science Communicator
6	Muhammad Yausoob	Science Communicator
7	Salman Mahmood Qazi	Media Head & Executive Committee Member
8	Ahmed Raza	Science Communicator
9	Ayesha Jamal	Science Communicator
10	Muhammad Arshad Maral	Incharge Finance
Logistics/Event Management		
11	Abu Bakar Siddiqi	Chief Organizer (HumRung & KSS)
12	Omer Waheed	Organizer
Creative Team		
13	Saad Usman	Creative Head
14	Behroz Khan	Creative Associate
15	Talha Shakoor	Designer
16	Zaigham Nadeem	Designer
Technical Team		
17	Bilal Razzaq	Technical Assistant
Social Media Team		
18	Areeba Iqbal	Social Media Manager
19	Nehal Nouman	Social Media Manager
20	Zeeshan Munawar	Social Media Manager
21	Rania Usman Latif	Social Media Manager
Community Mobilizing Team		
22	Muhammad Kamran Khalid	Community Mobilizer
23	Muhammad Yousaf	Community Mobilizer
24	Hafiz Muhammad Rizwan	Community Mobilizer
KSS Surpiseum		
1	Dr. Muhammad Mustafa	Incharge Public Engagement
2	Umar Hassan	Lead Instrument Builder
3	Syed Bilal Hyder	Co-Lead Instrument Builder
4	Muhammad Haseeb Tahir	Assistant Instrument Builder
5	Ismail Shahzad	Science Demonstrator
6	Syed Shayaan Haider	Science Demonstrator
7	Wardah Mahmood	Science Demonstrator
8	Aleeza Ayaz	Science Demonstrator
9	Bilal Amin	Science Demonstrator
10	Muhammad Ayyaz	Equipment Builder
11	Usman Baig	Junior Instrument Builder
12	Saqib Umair	Junior Instrument Builder
13	Ahmed Ramzan	Junior Instrument Builder
14	Kashif Ishfaq	Junior Instrument Builder
15	Khadim Mehmood	Equipment Builder
LHC Tunnel and LIT-DISCO		
1	Syed Tayyab Iftikhar Sherazi	Lead Science Demonstrator
Planetarium		
1	Shoaib Jamal Shamsi	Science Communicator

Volunteers: Lahore Science Mela 2023

KSS Surpriseum Science Demonstrators			
Abdul Jabbar	Farzah Fatima	Mishal Tariq	Shahzadi Arhum
Abdul Rehman Khan	Fatima Azam	Mohid Imran	Shaleen Asif
Abdullah Ajmal	Fatima Mohsin	Mona Tarab	Sheza Javaid
Abdul Rehman Ansari	Fatima Zahid	Muddasir Naeem	Shifaan Ali
AbdulRehman Hassan	Fizza Imran	Muhammad Ibrahim	Sidra Noor
Abeera Shahid	Hafi Shaheer Khan	Muhammad Shawaiz	Subhan Tahir
Ahmed Nidal	Hafiz Abdul Aleem	Muhammad Usman Ghani	Susana Alam
Aima Ahmad	Hafiz Muhammad Hanzala	Mujtaba Shahzad	Syed Fareed Ahmed
Aiman Noor Afzal	Hafiz Muhammad Hunain	Muneeb-ul-haq	Tahniat Ali
Ali Asghar	Hafiz Zohan Ahmad	Myera Chughtai	Tooba Safdar
Alina Zainab Rizvi	Hafsa Ijaz	Nabiha Khan	Touqeer Ahmad Khan
Aleeza Ayaz	Hamza bin Iftikhar	Nadeem Abbas	Usama Younas
Dr. Ameerq Farooq	Hashim Tariq	Nashika Jabeen	Wadood-ur-Rehman
Ammar Asif	Hassan Jallani	Nireeta Yousaf	Yawar Hayat
Ammarah	Syed Muhammad Hassnain Ali shah	Nudrat Ehsan	Zill e Noor
Amna Farhan Abbasi	Hira Atif	Obaid Ur Rehman	Zohait Francis
Anusha Imran	Javeria Fatima	Raania Salman	Zonash Khurram
Areeba Ijaz	Kabeer Ahmad	Rabeea Nasr	Osman Shariq
Asim Ghafoor	Kashif Aamir Naveed	Rafia Khalil	Momina Hamayal
Ayesha Athar	Laraib Fatima	Ramish Gill	Farwa Hamyal
Ayesha Shahzad	M Abubakar Imran	Rayyan Malik	Muhammad Ali
Ayyan Ahmad	Muhammad Fatiq	Rimsha Tariq	Zoya Hassan
Azan Waqar	Maneeha Ajmal	Saad Aziz	Shirin Abbas
Beenish Farooq	Maria Kokab	Saadia Alam	Umm-e-Rubab
Bilal Amin	Maryam Azhar	Saba Taj	Menaal Adeel
Faiqa Gulfam	Masooma Nasr	Sehar Tabassum	Nabiha Adeel
Faiz Hamid	Minahil Sajid		
LHC Tunnel Science Demonstrators			
Amna Fatima	Jannat Farooq	Muhammad Ameer Hamza	Rimsha Touqir Shah
Asad Ali	Kamran Jahangir Akhtar	Muhammad Hassaan Mahmood	Taha Ahmad
Ateeb Tahir	Kamran Jahangir Akhtar	Muhammad Hassan Shahid	Taimoor Hasan
Farman Ullah	Khagan Imran	Muhammad Majid Shakoor	Tayyab Iftikhar
Farzah Fatima	Minahil Umer Alvi	Mushabbah Ashfaq	Ume Farwa
Fatima Zahra	Muhammad Ahmad	Rabiya Imran	Zill E Noor
Haider Ali Baig	Muhammad Ahmad Raza	Rehan Israr	Asad Gill
Planetarium Science Demonstrators			
Ali Abdullah	Ayat Qureshi	Muhammad Ahtesam Hamza Bin Ashraf	Shoaib Jamal Shamsi
Ashna Chaudhry	Hinza Tanveer	Muneeb	
Social Media Team Volunteers			

Areeba Iqbal	Ehsan Jabbar	Rania Usman	Zeshan Munawar
Ayesha Rafaqat	Kiran fatima	Sarosh	
Duaa Jamshaid	Nehl Noman	Shayan Alvi	
Auditorium Team Volunteers			
Abdullah Sikandar	Mahnoor Nouman	Rizwan Shoukat	Sidra Ali Naqvi
Ehsan Tahir	Mubeen Mubasher	Saad Ali	Syed Hassan Ali Gillani
Janeeta Ahmad Awan	Naveed Akhtar	Wajeeha Batool	Zara Fatima
Indoor Sessions Team Volunteers			
Maarij Fatima	Muhammad Mudassir iqbal	Muneeb Ahmed butt	Ribbat Ahmed butt
Security Team Volunteers			
Abdul Moeez	Anas virk	Huzaifa akram	Musa fakhir
Abdullah Bajwa	Bazil Arif	M subhan khan	Rahim Ahmad
Abdullah Rizwan	Fayez rizwan	Mia ubaid	Rana ayan
Abdullah Sheikh	Haider irfan	Mohammad Usman	Rehan butt
Abdullah Tariq	Hassan Irfan	Muhammad Ahmad Hassan Saeed	Shaheem Sardar
Abdullah uppal	Hassan khokhar	Muhammad Ahmed	Syed Ahmad
Ahmed Usman	Hizbullah khan	Muhammad Shuraih	Talha Rizwan
Amir muavia	Hussain khokhar	Murtaza rizwan	Usman iftikhar
Mela Guide / Mela Ambiance Team Volunteers			
Abdullah	Hussain Maqsood (me)	Muhammad Hasnain	Shiza Shanzay
Aliya Yousaf	Isma Tanveer	Muhammad Sami	Suleman
Aneeqa Shaham	Lal Hussain	Muhammad Sulman khan	Syeda Kinza
Areesha Umar	M.Awais	Mustaqeem	SYEDA WAJIHA BATOOL
Arham reja Saleem	Mahnoor Muzaffar	Mustaqem Tahir	Talal Bin Tariq
Ayaan Ahmad	Mahnoor Nauman	Nabiha Malik	Talha Bin Tayyab
Eshaal Tahir	Meerub	Rayan Bin Zikria	Usman Iqbal
Fardeen Imran Malik	Mian Moiz	Reja	Wareesha Haq
Hafiz Muhammad Abdul Hannan Aamir Latif Bhutta	Mian Ubaid	Rushmaeyl Zahid	Zeeshan
Hammas Siddiqi	Minal	Salman Farooq	Zeeshan Ali
Hamza Ali	Muhammad Abdullah Amer	Sarosh	Zehra
Sadia Fayyaz	Muhammad Hashim	Saweera Nadeem	Zuhair Hasan
Logistics Team Volunteers			
Abdul Ghaffar	Fareeha Fatima	Muhammad Rayyan	Shuneed Zulfiqar
Abdul Rehman Akbar	Farwah Alam	Muhammad Saleh Tariq	Sidra
Afifa Akeeb	Fatima Tariq	Muhammed Furqan	Tania Abid
Ahmed Ammar Ali	Hammad Ali	Muneebah Fatimah	Tayyaba Akhtar
Ali Ahmad	Haroon Zubair	Mutti ur Rehman	Umar Sarfaraz
Ali Raza	Hurain Tahir	Naeem Akhtar	Wajeeha Malik
Alizeh Tahir	Jawairia Attique	Nashrah Butt	Wasiq Umer
Amna Majeed	Khadija Imran	Qurat ul Ain	Zaid Farooq
Amna Rizwan	Mazhar Mohyudin	Rida fatima	Zaid Mustafa
Asfandyaar Khan	Muhammad Abdullah	Saad ud Din	Zainab Fatima
Ayesha Naveed	Muhammad Arqam	Sameed Tahir	Zainab Hafeez
Ayesha Naveed (2nd)	Muhammad Fahad Yasin	Samran Zahid	Zoha Anwar

Bilal Nadeem	Muhammad Fazeel	Shaheed Ullah	Areeba Ali
Dua Fatima	Muhammad Mohid Kashif	Shahood	Khadija Shahzad
Photography Team Volunteers			
Aamir khan	Asif Butt	Khawaja Umer	Osama Khan
Abbas Khan	Faisal Ali	Luqman	Rabeel Asghar
Abubakar	Faizan e bahoo	M. Asad	Saad Ahmad
Aima Yasir	Farhan	Meerab	Salman
Aman Javaid	Hamzah Waqar	Muhammad Abdullah	Suman
Anas sabir	Haroon Ahmed	Muhammad Hassan	Sumaira
Ans Shah	Imran Haider	Mujtaba Usman	Yumna mazhar
Asfand	Khadija Atiq	Omama Qamar	Zain mirza
Taha Jalil			
Front/Help Desk Team Volunteers			
Amna Usman Latif	Ghulam Moin-U-Din	Khubaib Iqbal	Tayab
Arham Reja Saleem	Haiqa Malik	M. Waqas	Tayyib Hassan
Ayesha Hammad Wyne	Haroon Ali	Mudassir Aslam	Usman Iqbal
Ayesha Razaqat	Hassan Butt	Muhammad Asif	Wania Awais
Daneen Ali	Hiya Hussain	Muhammad Qaiser	Warda Asif
Dur-e-Nayab Qasmi	Jaweria Attique	Sara Ahmed Dogar	Zara Razzaq
Emaan Shahid	Kanza Khalid	Sidra Asim	Zartasha Ali
Eqan Zahra	Khadija Salman	Sobaan Tariq	
Farwah Alam	Khansa Pervaiz	Tariq Mehmood	
Scienci Baithak Team Volunteers			
Dur-e-Afaq	Faiza Zahra	Mahtab Zafar	Omaiyma Farida Khan
Suman Mahmood	Hafiza Tayyaba Fayyaz	Hammad Virik	

Ask Oneself: Questions

1. Why do we invite artisans?

Artisans are the storytellers of our cultural heritage. We invite skilled artisans, like handmade toy makers, sand casting artists, welders, potters, and others, to ensure that the richness of our traditional crafts doesn't fade away. The artisans showcase more than just their crafts; they teach the visitors about their skills, which is a way of preserving these traditional skills. We also aim to provide a platform for these communities to thrive by empowering them and ensuring that their artistry continues to be appreciated and passed down through generations.



Handmade Toy Maker at LSM 2023

2. Was there any art at the Lahore Science Mela?

Lahore Science Mela always tries to focus on the beautiful fusion of Art and science. One highlight of this year's Mela was the documentary screening of "The Stars at Night" by Cosmic Tribe, which transported the audience to the world of stars and enlightened them about the mysteries and mythologies of cosmos and stars. Showcases by various exhibitors, such as Art Ratan, Lahore Virsa, and others unveiled the deep connection of history and culture.

A standout feature of LSM 2023 was the expansive pavilion by Hast-o-Neest: Institute of Traditional Studies & Arts. Artists and Architects from Hast-o-Neest transformed the windows, classrooms, and floors of the Crescent building into canvases, creating intricate and mesmerizing patterns and designs that truly blended tradition with contemporary art. It was a visual feast for the on-lookers and left them wondering about the immense creativity embedded in our cultural heritage.

We aspire to delve deeper into the scientific-artistic niche. Our aim is to collaborate with more art-focused organizations, inviting them to join hands with us to innovate and create initiatives that amalgamate the worlds of science and art, climbing the ladder of innovation and creativity hand in hand.

3. What was the "language" of the Mela?

Lahore Science Mela reflects the elegance and linguistic heritage of Urdu language. We recognize its connection to our culture and history and consciously choose to emphasize use of Urdu in our means of communication which is evident in every aspect of the Mela. This year at the Mela from naming our exhibitor categories to crafting stall fascias, banners, slogans,

shirts and signages, we aimed to showcase the richness of Urdu on the forefront. Both our digital and print media predominantly featured Urdu typography. By infusing the *Mela* with the richness of Urdu, we aim to reflect that *Mela* provides an inclusive, immersive and culturally resonant experience for all participants.

To cater to the international audience, we also use English as means of communication wherever necessary and opt Bilingual to reach a vast audience, as we aim to extend this festival at international locations.

4. Was there any difference between the crowds on day one and day two?

Lahore Science *Mela* has a distinctive charm in the diversity of the crowds on each day, as it has become a norm to conduct *Mela* on the weekends.

Saturday, being a school day, attracts an influx of school kids trips, college students, and university attendees, creating a vibrant atmosphere filled with the energy of curious young minds from various institutes across Pakistan.

On Sunday, the dynamics shift towards a friends and family-oriented exploration. As it's a holiday, parents take the opportunity to bring their children, and students, in turn, introduce their families to the wonders of science.

Lahore Science *Mela* caters to all ages and all curiosities. You'll witness a little kid awestruck by lasers, students delving into the mysteries behind natural phenomena, and elders either reminiscing about the past or finally unraveling the truth behind long-held science myths.

5. What does the LSM do for human resource training?

Lahore Science *Mela* places a strong emphasis on human resource training, ensuring that our volunteers are well-equipped and well-trained to create a memorable experience for visitors. The Volunteer onboarding process begins well in advance, with volunteers being brought on board in various capacities months before the *Mela*.

For the KSS Surpriseum (Hairat Ghar), LHC Tunnel and Planetarium set-ups, KSS tends to go a step further. Experts and mentors are on-boarded to train Science Demonstrators over the span of approximately one month before the *Mela*. Weekly sessions are conducted at the venue, where volunteers engage in hands-on learning, crafting science experiments, understanding the underlying concepts, and honing their communication skills to effectively convey these concepts to *Mela* visitors of all ages. This truly intensive training has proven to be transformative, and over the years we have seen hundreds of individuals emerging as true phenoxies-exemplary science communicators and demonstrators.

Similar training sessions are extended to other volunteer teams, providing them with the space and opportunities to discover and enhance their capacities.

Challenges: LSM 2023

International Presence

One of the significant challenges for the Lahore Science *Mela* revolves around establishing and maintaining international presence. Convincing individuals from across the globe to come to Pakistan, despite the *Mela*'s growing reputation, remains a formidable task.

The process involves months of meticulous coordination, numerous Zoom meetings, and a plethora of email exchanges. **While some hopes are fulfilled with the affirmative "yes" responses, the journey is far from over.**

The intricacies of international onboarding continue with the booking of tickets and the visa process, navigating the complexities of dealing with various entities. However, the nature of the *Mela*, being a completely fundraised event and Khwarizmi Science Society operating as a non-profit with limited resources, adds another layer to the challenge. A setback was keenly felt this year when three confirmed international guests from Turkey withdrew at the last moment, despite all arrangements being in place. This unforeseen circumstance required us to cancel flights, residence reservations, and seek replacements for the vacant session slots.

In the face of financial and emotional setbacks, Lahore Science *Mela* 2023 ultimately triumphed, showcasing resilience and adaptability. Yet, the **challenge persists**—onboarding international participants and securing funds for their expenses will remain a dynamic challenge. It necessitates considering the global political climate and calls for even more substantial fundraising efforts to sustain and elevate the international dimension of the *Mela*.

Security and Crowd Control

Another significant challenge faced by Lahore Science *Mela* is the aspect of security and crowd control, an issue that demands professional intervention.

In every society, there are individuals who may disrupt events, and with the *Mela*'s ever-growing scale, ensuring security and managing the crowd becomes an increasingly complex task. While dedicated volunteer teams were committed to addressing these challenges, the realization dawned that events of this magnitude necessitate professional expertise. Professionals who are equipped to handle large crowds, maintain control, and effectively communicate with attendees. Recognizing this need, future *Melas* might explore ways to enhance security measures and ensure the safety and orderliness of the event.

Communication

Effective communication is undeniably the cornerstone of any successful event, particularly for grand occasions like the Lahore Science *Mela*. However, this year, the team encountered a unique communication challenge that required nimble solutions. The venue, Crescent Model Higher Secondary School, posed a hurdle due to its adjacency to the Camp Jail, leading to heavy signal jammers disrupting both SIM signals and Wi-Fi connections.

In the face of this challenge, the KSS team adapted to Walkie-Talkies which significantly eased communication among team leads (but this number was limited).

Additionally, Lahore Science *Mela* collaborated with the Wateen company that provided free Wi-Fi services during the event days. While the solution wasn't exhaustive, it did alleviate the communication hurdles to some extent.

Permanent Space (Physical Space to Exhibit)

Over the course of five melas spanning six years, Lahore Science *Mela* has gracefully transitioned through three different homes – from the Ali Institute of Education to Divisional Public School and finally at Crescent Model Higher Secondary School. Each venue has been a unique blessing, offering its own advantages. However, considering the continuous growth of the *Mela* and its long-term aspirations, the need for a permanent home has become increasingly apparent.

A permanent space for the Lahore Science *Mela* is envisioned as a substantial area capable of accommodating the expanding crowds and facilitating the execution of hundreds of experiments and demonstrations on *Mela* days. Beyond that, it should serve as a secure and sufficient space for the extensive preparation and built-up phase that extends over months leading up to the event. It can become a public exploratorium and a hub of inquiry throughout the year. Looking ahead to various future initiatives of the Khwarizmi Science Society, securing a permanent space for the *Mela* demands not only meticulous planning but also substantial funding.

The vision for a dedicated and expansive space hinges on a significant financial pull. With structured planning and the support of stakeholders, a permanent home for Lahore Science *Mela* and Khwarizmi Science can become a reality.

Bigger Team

Lahore Science *Mela* has thrived and evolved over the years, and all of this has been made possible by the dedicated efforts of a few dozen individuals who have enabled this event for thousands of people. However, as the scale and impact of the *Mela* continue to grow, there is a pressing need for an expanded and dedicated team who would propel the vision of KSS forward. We duly agree that the existing team has worked tirelessly, but the demands of managing more grand future *Melas* and events call for additional hands. We believe that to sustain the success of *Mela*, KSS needs to explore further untapped pools of human resources.

Expanding the team is not just about increasing numbers, the call for a bigger team echoes that the journey of science outreach is a collective effort, and with more passionate and dedicated minds on board, the reach and influence of the Lahore Science *Mela* can be amplified even further.

Food Provision to Exhibitors and Builders

Another challenge faced this year was the provision of food to exhibitors and builders. Exhibitors and builders, who invest their time and energy into creating captivating exhibits and experiences, need nourishment to fuel their efforts. KSS has tried to fulfill the needs to the maximum based on the resources available but a room for improvement exists.

Incentivising people

We strived to provide support and incentivise the LSM team and dedicated volunteers through stipends and honorariums, and the out-of-city participants through travel support but the reality of limited resources meant that not everyone could be accommodated. This reflects another pressing need for a more sustainable financial system in action.

That's All Folks!

PROJECT REPORT | LAHORE SCIENCE MELA 2023
Khwarizmi Science Society



CRESCENT MODEL
HIGHER SECONDARY
SCHOOL

*It's far from over!
See You All In Another KSS Venture*

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