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InSight

A Peek Into Science

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Revolutionising Biology with Artificial Intelligence - Pg Z

InSight is an e-magazine run by volunteers and hosted by IISER Kolkata, aiming to bring science to the masses. scicomm.iiserkol.ac.in

Director's Note

It is with immense pride and joy that I introduce the inaugural issue of InSight, IISER Kolkata's Science Communication Magazine. This initiative embodies our collective aspiration to make scientific knowledge accessible and engaging for a broader audience. As an institution committed to research and education, we are always searching for ways to bridge the gap between cutting-edge science and society, and InSight is a testament to this mission.

In an era where information is at our fingertips, the ability to communicate science effectively is more crucial than ever. Our endeavour to convey scientific concepts in a way that resonates with individuals beyond specialized fields reflects the core philosophy of IISER Kolkata: to inspire curiosity, foster inquiry, and build a community that appreciates the value of science. The magazine's foundation on a Class 11 and 12 level of understanding ensures that students, educators, and the public alike can find inspiration in these pages.

The team behind InSight has set an ambitious vision not just to present scientific achievements but to tell stories that connect the intricacies of scientific discoveries with their broader implications. It is indeed encouraging to see this inaugural issue feature interviews with luminaries like

Dr. Shyama Narendranath from ISRO, alongside contributions from our talented students across various programs. Such an inclusive effort strengthens our belief that science communication can transcend conventional boundaries and foster a culture of open dialogue.

I would also like to express my sincere appreciation to the faculty mentors—Prof. Somnath Basu, Prof. Subhajit Bandopadhyay, and Prof. Anindita Bhadra—for their guidance in nurturing this endeavor. InSight not only highlights the research at IISER Kolkata but also shines a spotlight on the perspectives, ideas, and stories that can inspire the next generation of scientists.

As we publish this first issue, I extend my best wishes to the entire editorial team and contributors. May this magazine grow as a beacon of scientific literacy, and evolve into a multilingual platform that transcends barriers, expanding its reach to audiences far and wide.

With my warmest regards,

Prof. Sunil Kumar Khare
Director
IISER Kolkata

Editor's Note

Welcome to this inaugural edition of InSight!

We are a dedicated team comprising BSMS students from the second year up to senior PhD scholars, all of whom have collaborated to breathe new life into this publication as a revival of Cogito 137, continuing its legacy while aiming to broaden its reach and impact. Our shared goal is to make science accessible to everyone, bridging the gap through science writing and communication that connects with an even wider audience. You can meet the team on our website!

InSight is designed as a web-based, English-language publication for an audience with a foundational knowledge of science across domains. While our articles cover diverse and often complex topics, we strive to make them highly engaging, appealing even to those outside academic circles. In the coming years, we hope to expand this platform into multiple languages to reach an even larger global audience.

This issue features articles spanning a wide range of scientific fields, from the intersection of artificial intelligence and biology to groundbreaking research in physics. Under the guidance of Prof. Somnath Basu, Prof. Subhajit Bandopadhyay, and Prof. Anindita Bhadra, we aim to

maintain both rigor and readability throughout. We also enjoyed interviewing some of the most distinguished scientists—such as Dr. Shyama Narendranath from the U.R. Rao Satellite Centre, ISRO, and Prof. Sunil Khare, Director of IISER Kolkata—who have shared invaluable insights on various scientific themes.

In this issue, we have contributions from BSMS and PhD/I-PhD students, both within and outside IISER Kolkata. This diversity in authorship reflects our commitment to inclusivity and varied perspectives.

We encourage readers to respond through letters, as thoughtfully and constructively as possible. Your feedback is essential to shaping future editions. We also invite students, faculty, and staff to submit articles on diverse scientific topics for the magazine; we would love to publish them after review. Links for submission are included in this issue. And of course, we're just one email away!

Thank you for being part of InSight. We hope you enjoy this issue as much as we enjoyed creating it! With warm regards,

Chief Editor,
InSight