



Indian Institute of Technology Madras
Office of Alumni and Corporate Relations



**CELEBRATING THE GENEROSITY OF
MR. SRINIVASAN SESHADRI
&
MRS. SHUBA KRISHNA
IMPACT OF YOUR GIVING REPORT 2023**

JUNE 2023

Message from Director



Prof. KAMAKOTI VEEZHINATHAN
Director, IITM

Greetings!

IIT Madras continues to retain her top position for the seventh consecutive year, in the National Institute Ranking Framework, thanks to the world-class research of its faculty and students. The contribution and support of Alumni and well-wishers like you has crucially helped this standing and stature. Our achievements in research, education, innovation and entrepreneurship have also earned us the recognition of an 'Institute of Eminence' as well as the top position in the Atal Innovation Ranking from the Government of India.

The institute is making an indelible mark with her 'research with impact' in several areas including quantum computing, drinking water technology, industrially relevant mathematical models for governance, rendering cancer-cure more effective. Our centres of excellence, the Center for Innovation, Nirmaan – the pre-incubator, the Incubation Cell, technology centres such as 'IITM-Pravartak' and others, work in unison for not just our nation's building, but societies world-wide. We aspire to be locally impactful and globally relevant through all these efforts.

Towards exploring new research frontiers, a Department of Medical Sciences and Technology has been launched to conjoin medicine and engineering. Similarly, a School of Sustainability is on the horizon to research sustainable practices in the Global South. The campus is moving towards 'carbon-net-zero' goal through water conservation by 100% recycling, efficient garbage disposal, and electrification of vehicles. The traditional education system is undergoing a paradigm shift, with our online Bachelor of Science programme in Data Sciences and the National Program of Technology Enhanced Learning, that have won Gold in the 'Lifelong Learning' category and Silver in the 'Best Online Program' category of the Wharton-QS Reimagine Education Awards 2022 respectively. IIT Madras is leading this revolution from the front.

Such achievements are not possible without the deep-rooted faith and support of alumni and well-wishers such as yourself. We are indebted to you for your generous, bountiful, and impactful contributions. On behalf of IIT Madras, I offer you our deepest gratitude for continuing to strengthen the Institute. Together with your support, we are confident of building an IIT Madras that is more inclusive, diverse, and enabled by an ecosystem to be nationally relevant and globally recognised. **Thank you!**

Message from Dean



Prof. MAHESH PANCHAGNULA
Dean, Alumni & Corporate Relations, IITM

I express my heartfelt gratitude to you for your generous support to IIT Madras. We appreciate your passion in supporting the causes you do and I assure you that your contributions will be optimally utilised. This report has been compiled to convey how your largesse has touched lives and made a difference at IIT Madras. In keeping with the rapid, contemporary strides in science, technology we have set ambitious goals for ourselves - your continued enthusiasm and support will help us greatly in these endeavours.

IIT Madras is far more diverse in its set of pursuits, more green and more research-focused. And yet, it remains unchanged over these years, it is still the best Institute in the country, and attracts the best students that India has to offer to come and make a mark. I also cordially invite you to visit your campus to see for yourself, the impact of your contribution, and the growth and transformation the Institute has undergone over the years.

We can never express our gratitude enough for all that you have done - **Thank You !**



“Thank you for your support and for your belief in doing good. We simply couldn’t do what we do without amazing people like you.”

“Happiness doesn’t result from what we get, but from what we give. Thank you again for your commitment and kindness.”

MR. SRINIVASAN SESHADRI

1988 - B. Tech - COMPUTER
SCIENCE & ENGINEERING



Mr. Srinivasan Seshadri, Director of Engineering at Google, experienced technologist skilled in AI, Machine Learning, Data Science, Search, Natural Language Processing, Scalability, Data Management, E-commerce, and Team Building. Revels in Using Innovative Technology to build products that have a direct impact on the business. We are delighted to share the work and impact of the projects enabled by Mr. Srinivasan Seshadri and Mrs. Shuba Krishna's support. We rejoice in and celebrate their generosity towards IIT Madras and are grateful to them and their family.

Summary of your contributions to IIT Madras

- Chennai Flood 2015
- 1988 Batch Project - Alumni Endowment Fund
- C. Pandurangan Faculty Fellowship

Dear Mr. Srinivasan Seshadri,

Greetings from your Office of Alumni and Corporate Relations, IIT Madras, Chennai, India!

- This report is a follow up to the 'Celebrating your Generosity' report we had sent you in January 2022.
- This 'Celebrating your Generosity' June 2023 report encapsulates the following:
- 1988 Batch Project - Alumni Endowment Fund
- Pandurangan Faculty Fellowship

1988 Batch Project - Alumni Endowment Fund

Dr. Sampath Srinivas had donated generously to undertake the renovation of the hostel in which he was staying during his time of study at IIT Madras.



GENERAL ALUMNI ENDOWMENT FUND REPORT 2023

The purpose of the Alumni Endowment is to use the annual interest accruals to fund initiatives that will have a key transformational impact on the Institute and keep it as a world-class institution of technological advancement. The 1985, 1986, 1987, 1988, 1978 batch, other alumni and well-wishers have provided their support towards this endowment. The interest accrued from this endowment is utilised to the below causes:

1. TRAVEL GRANT TO STUDENTS & FACULTY
2. VIDEO PRODUCTIONS AND VIRTUAL CLASSROOM MEETINGS
3. JOURNAL PUBLICATION SUPPORT

TRAVEL GRANT

The goal of this travel grant is to facilitate the professional development of undergraduate and graduate students/research scholars and faculty by supporting their travel for attending professional meetings.

This also supports exchange programs, summer schools, and joint doctoral programs which provide an opportunity for the recipient to present his/her own research. This enables recipients to interact with peers and established scientists, which also helps develop professional contacts to facilitate their career development.

SOME OF THE BENEFICIARIES BENEFITTED FROM THE TRAVEL GRANT



BAKUL JANGLEY



AMOGH WAGHMARE



PRATYUSH KUMAR



RAMITA JAWAHAR



DEEPAK BAJHAIYA



SHRISHTI ADHIKARY



SREELEKSHMI PS

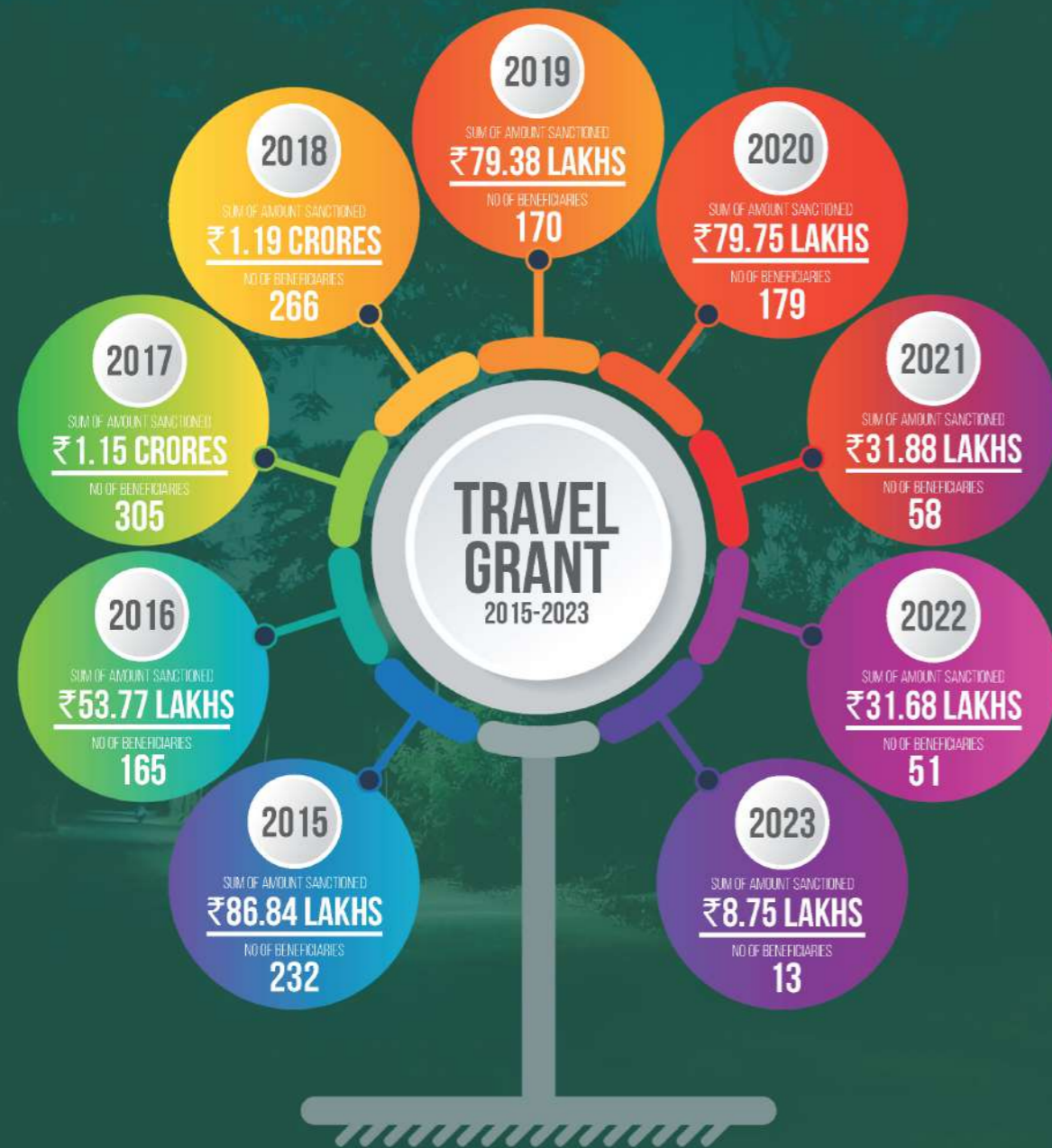


AMAL ZULFIKAR

TO VIEW MORE DETAILS ABOUT THESE BENEFICIARIES

[CLICK HERE](#)

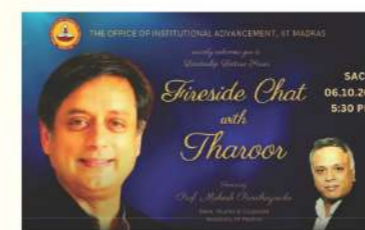
BENEFICIARIES BENEFITTED



VIDEO PRODUCTIONS & CLASS ROOM VIRTUAL MEETINGS

National Programme on Technology Enhanced Learning (NPTEL), a project of the MHRD initiated in 2003 by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore, provides recorded lectures taught by its member institutes online for open access. The online e-portal has over 470 million views and its YouTube Channel is the most subscribed educational channel with more than 1.5 million subscribers and over 404 million total views. With 56000+hour's video content, it is the most accessed library of peer-reviewed educational content in the world.

A few video links of the videos taken by the video productions team headed by Shri.Kannan Krishnamurthy at IIT Madras are as follows:



FireSide Chat with Dr. Shashi Tharoor, Moderated by Prof. Mahesh Panchagnula
VIDEO LINK



DAA Award Ceremony
VIDEO LINK



Laptop gifted to BS Degree Program students
VIDEO LINK



Shri Dharmendra Pradanji Visit to IIT Madras
VIDEO LINK



Hon'ble Finance Minister, Smt. Nirmala Sitharaman
VIDEO LINK



Inauguration of 'Centre for Innovation' by Shri Jagdeep Dhankhar, Hon'ble Vice-President of India
VIDEO LINK



Almost all video coverages, production of Departmental videos, live streaming, virtual classes at IIT Madras is all undertaken by this very active and prompt video productions team at IIT Madras.



Click here to view the detailed report

C. Pandurangan Faculty Fellowship

Salient achievements of this year:

1. SS group reached to the milestone of publishing 100 international peer-reviewed journal articles
2. The group developed a new drug formulation technology that reduces the dose intake while accelerating the onset of action of a range of drugs. Filed applications for six Indian patents. Here is a briefing of our innovation:

Summary of the patents:

Active Pharmaceutical Ingredients (APIs) are the active components in drug molecules that provide pharmacological activity in disease treatments. Majority of the APIs suffer from weak solubility in blood stream and poor cell membrane permeability.

Current drug formulation strategies convert APIs as salts of small ions Na⁺, K⁺ or Cl⁻ etc. However, these sparingly soluble salts come in solid formulation and fail to comply with the paediatric and geriatric class of patients. Improving drug solubility thus remains a challenge forever! Ionic liquids (ILs) are recently discovered molten salts that exhibit extremely high-water solubility due to their unique chemical composition, comprising of bulky organic cations and anions. We have synthesized a series of biocompatible ILs in-house with thorough physicochemical characterization. Many of these ILs are non-toxic and are highly soluble in water. This motivated us to synthesize a few representative API-based ILs, which we term as API-ILs. In our preliminary study, we have selected aspirin ([ASP]), paracetamol ([PCM]), ibuprofen ([IBU]), and diclofenac ([DIC]), four largely used APIs/drugs and conjugated with the cations/anions of biocompatible IL1 and IL2 to obtain reformulated APIs. All the API-ILs showed 10² -10³ times increased solubility compared to the corresponding APIs, which we found due to the underlying Chemistry of solvent-separated ion pairing of the bulky constituents. Being highly water soluble, these formulations are stable in liquid state, and in principle, can be administered as injections or oral mode of delivery. Our very recent in-vivo testing results on rat model suggested that the API-ILs can have rapid onset of action compared to the parent APIs.



[Click here to view Dr. Sanjib Senapati academic profile.](#)

WE ARE GRATEFUL TO YOU!

**MR. SRINIVASAN SESHADRI
&
MRS. SHUBA KRISHNA**



Thank you for your sustained generosity to IIT Madras over the years. Contributors such as yourself enable our students and Professors to dream big and work towards a better and brighter future. We hope you are proud of your alma mater and how it has remained steadfastly committed to academic and research excellence since your time here. You and your family have been instrumental in facilitating this significant growth.

Our efforts to nurture the culture of academic excellence that is the hallmark of IIT Madras - quality education, cutting-edge research, and unfettered creativity shall continue. We are privileged and humbled to have you and your family walking with us along this trail. We wish you and your family the best always in all walks of life!



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