



INDIAN INSTITUTE OF TECHNOLOGY MADRAS
OFFICE OF ALUMNI AND CORPORATE RELATIONS

Celebrating the Generosity of

Mr. Dilip Subramanyam



Impact of your Giving in 2023

Director's Message



Prof. Kamakoti Veezhinathan
Director, IITM

Greetings!

IIT Madras continues to retain her top position for the eighth 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!

Dean's Message



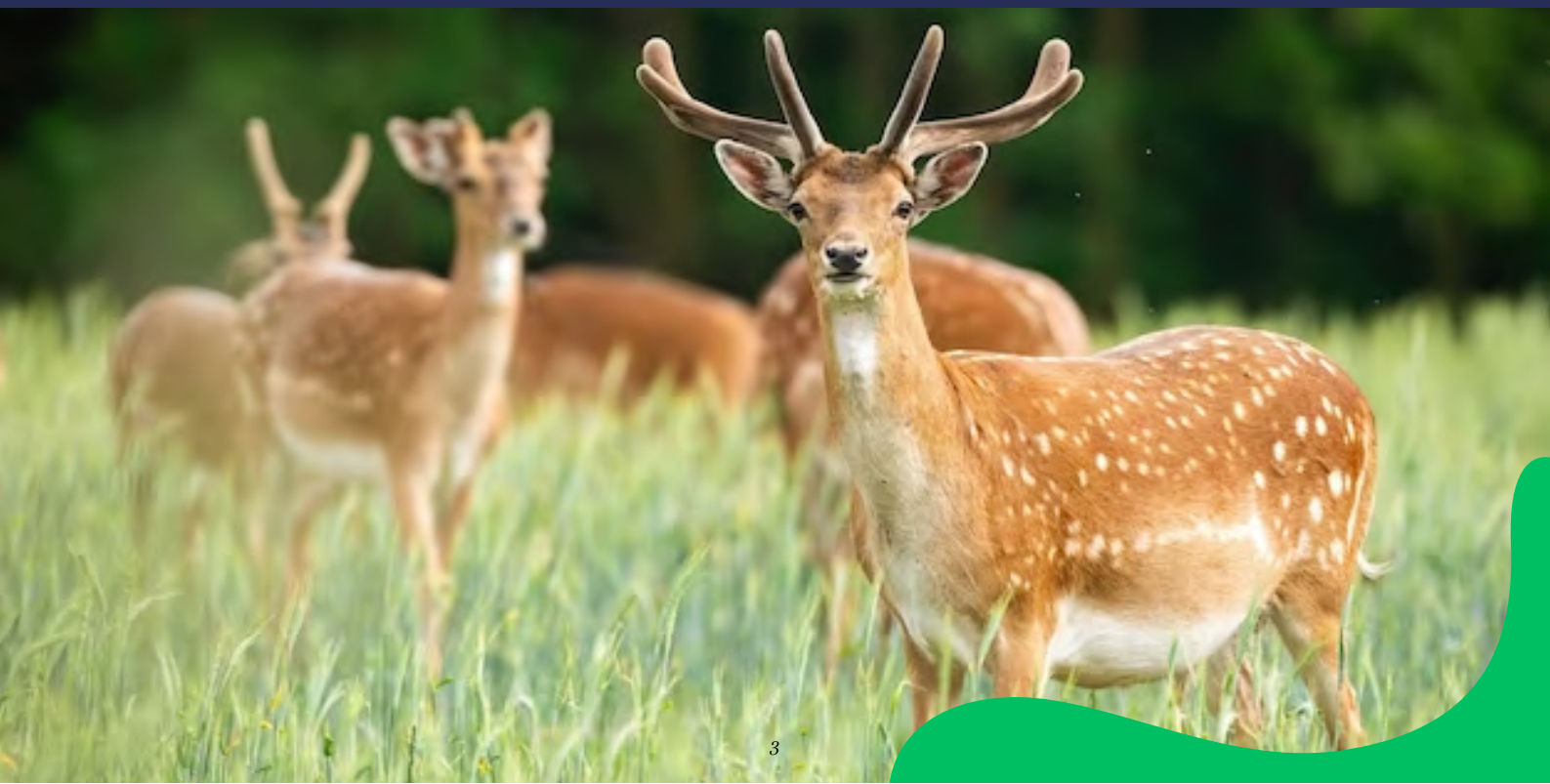
Prof. Mahesh Panchagnula
Dean, Alumni & Corporate Relations, IITM

Greetings!

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 utilized. 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 endeavors.

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!





Mr. Dilip Subramanyam

[1977/BT/MT]

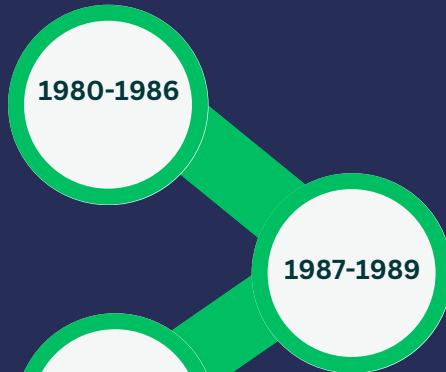
Mr. Dilip Subramanyam is a highly experienced professional in the field of materials engineering. Currently he is a part-time consultant after retirement. With over three years of expertise in providing freelance consultancy services, Mr. Dilip brings a wealth of knowledge and insights to his clients. Based in Wilmington, North Carolina, he continues to contribute his expertise and wisdom in materials engineering, leveraging his extensive background and experience in the field.

Mr. Dilip holds a Master of Business Administration degree in Industrial Management from Fairleigh Dickinson University, where he gained a comprehensive understanding of business principles and their application in industrial settings. Additionally, he holds a Master of Science degree in Metallurgy & Materials Engineering from Lehigh University, further solidifying his technical expertise in the field. His educational foundation was laid at the renowned Indian Institute of Technology, Madras, where he completed his Bachelor of Technology in Metallurgy and Materials Engineering.

CAREER TRAJECTORY



Abex Corporation
Metallurgist



1980-1986

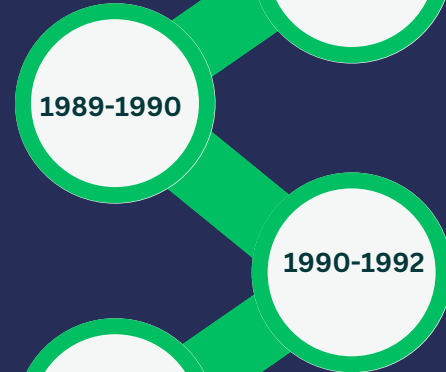
1987-1989



Pneumo Abex Corporation
Research Metallurgist

Ergenics, Inc

Senior Scientist



1989-1990

1990-1992



BD AcuteCare
Senior Materials Engineer



BD Surgical Systems
Senior Materials Engineer



1993-1996

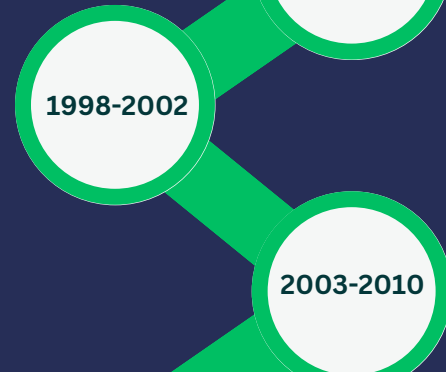
1996-1998



BD Ophthalmic Systems
Production Team Facilitator



BD Ophthalmic Systems
Senior Process Engineer



1998-2002

2003-2010



BD Ophthalmic Systems
Engineering Manager



Beaver-Visitec International
Director, Manufacturing Engineering



2010-2016

2016-2020



BVI Medical
Director, Advanced Manufacturing

Freelance

Retired, part-time consultant



2020-
Present

YOUR COPIOUS CONTRIBUTIONS

1977 Batch Project - Himalaya Neelkant Wing

1977 Batch Project - AIR Conditioning of CRC Classroom

Travel Grant

Best Research Paper Award in ISRS 2016

1977 Batch Ruby Reunion Fund - Forecourt in front of New Academic Complex

E. G. Ramachandran Institute Chair

COVID-19 Relief for India

1977 Batch Sapphire Reunion - MCM Scholarship Endowment

1977 Batch Project -Cyclotron

LEGO EV3 KIT

Give-a-Thon Institute Endowment

Tree Plantation in IITM Campus

Amalgam 2017

Team Avishkar Hyperloop 2019

O Prabhakar Faculty Fellowship

Shankari Subramanyam Impact Grant

The causes listed below have resulted in significant impacts

- ▶ 1977 Batch Project - Himalaya Neelkant Wing
- ▶ 1977 Batch Project - AIR Conditioning of CRC Classroom
- ▶ Travel Grant
- ▶ Give-a-Thon Institute Endowment
- ▶ Best Research Paper Award in ISRS 2016
- ▶ Tree Plantation in IITM Campus
- ▶ 1977 Batch Ruby Reunion Fund - Forecourt in front of New Academic Complex
- ▶ Amalgam 2017
- ▶ E. G. Ramachandran Institute Chair
- ▶ Team Avishkar Hyperloop 2019
- ▶ COVID-19 Relief for India
- ▶ O Prabhakar Faculty Fellowship
- ▶ 1977 Batch Sapphire Reunion - MCM Scholarship Endowment
- ▶ Shankari Subramanyam Impact Grant

1977 BATCH PROJECT – HIMALAYA NEELKANT WING

The dining at Himalaya is an integral part of student life for most students at IITM. Himalaya frequently serves as a venue for student interaction.

Students swarm this historic edifice for breakfast (6:45–9 am), lunch (12–2 pm), and dinner (6:45–9 pm). Clean restrooms are adjacent to the mess areas because students don't have time to travel to their hostels between classes. The mess can hold 100 to 200 students at once. The pupils have been given cozy steel tables with seating connected to them so they may have a meal. To combat the Chennai heat, the mess halls are equipped with ceiling fans and good ventilation.

Facing a beautiful lawn and a well-groomed garden it is heartening to notice how Himalaya has captured a striking spot in the heart of IITM and also of the students here. Standing strong like its namesake, this beautiful building continues to defend its place in the history of IIT Madras.

During their reunions, the batches of 1976, 1977, and 1978 batches decided to support the cause of setting up the Himalaya Neelkant and Kailash food courts. This was supported by many other individual alumni from other batches along with the non-alumni community.

Current photographs of the Neelkant Food Court:



1977 BATCH PROJECT – AIR CONDITIONING OF CRC CLASSROOM

A separate Class Room Complex (CRC) houses classrooms with a large capacity (150-200) and are fully airconditioned.

The air-conditioning of classrooms 101, 102, and 103 were supported by the batch of 1977.



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 for the year 2022-2023:



Ramita Jawahar
Mechanical Engineering



Pratyush Kumar
Civil Engineering



Amogh Waghmare
Engineering Physics



Deepak Bajhaiya
Applied Mechanics



Sreelakshmi P S
Applied Mechanics

For Detailed Report

[CLICK HERE](#)



GIVE-A-THON INSTITUTE ENDOWMENT

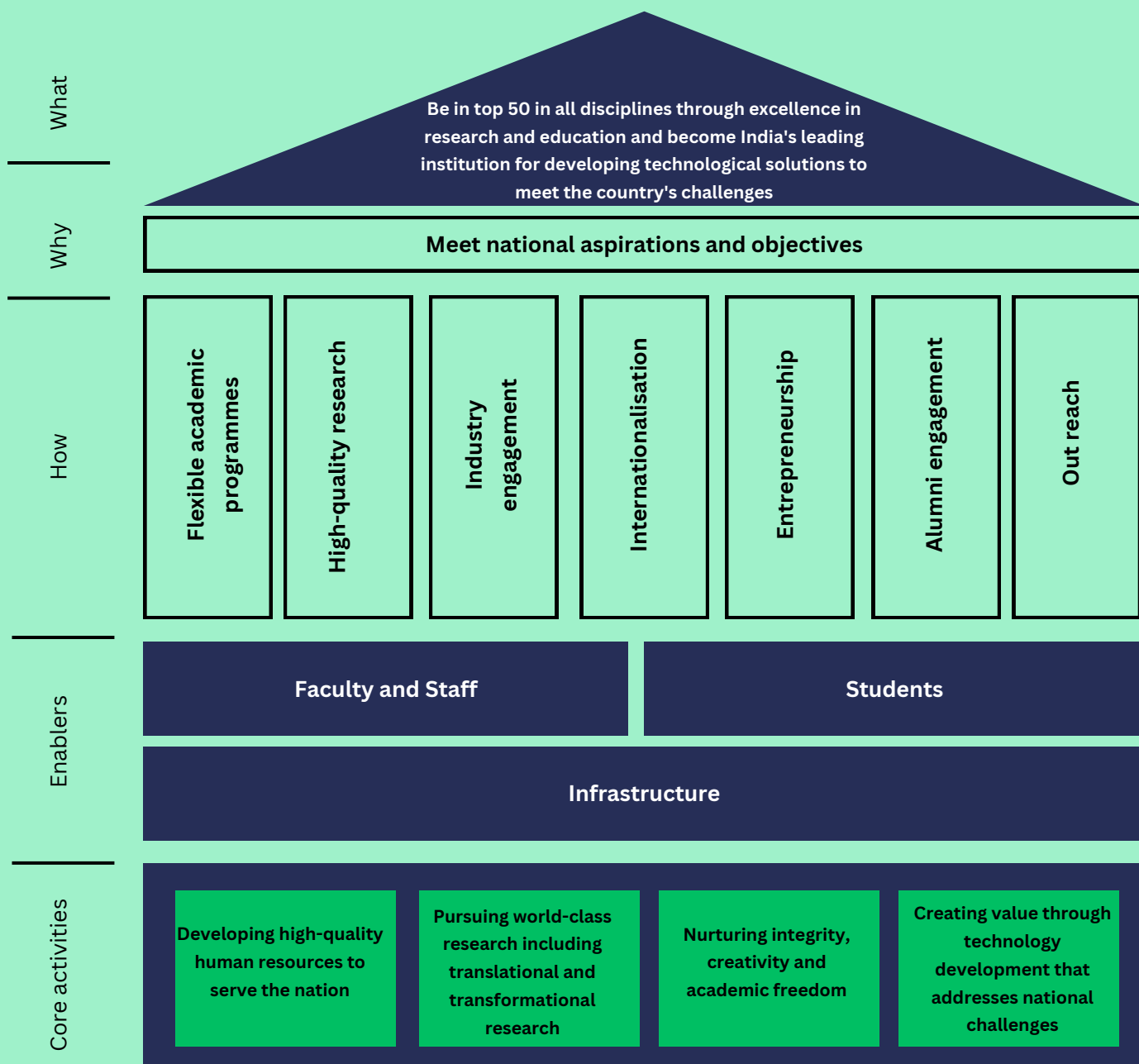
“Building an Endowment to realize the Strategic Vision 2020”

The Endowment supported IITM aspiration and help to realize the Strategic Vision 2020.

Vision Statement of IIT Madras:

To be an academic institution in dynamic equilibrium with its social ecological and economic environment striving continuously for excellence in education, research and technological service to the nation.

The vision for IIT Madras laid out by Strategic Plan 2014–2020 is to be in the top 50 in all disciplines, by being a global leader in research and education, which will benefit society around us and the environment.



The funds collected were used for the above cause.



BEST RESEARCH PAPER AWARD IN ISRS 2016

7th International Symposium on Metallurgy, Materials Science & Engineering was organized by the Department of Metallurgical and Materials Engineering (MME), IIT Madras in association with the Indian Institute of Metals Chennai Chapter December 21-23, 2016.

ISRS 2016 is the seventh in the series of international symposia organized by the MME department and devoted to research scholars (MS & PhD students) to help in improving their quality of research, analytical, and presentation skills. It offered a rich pedagogical platform where research scholars from various academic institutions, research laboratories, and industries across India and abroad presented their research work.



A total of 154 abstracts were received, of which 140 were accepted for poster presentation.

Five poster sessions were held, each consisting of approximately 25 papers on 20 diverse topics in Materials and Metallurgical Science and Engineering

The panel of experts in the respective fields evaluated the best posters and were selected to receive prizes. The prizes consisted of a merit certificate, a Medal, and a cash award of Rs. 10,000, and if the prize was shared by two students, then the cash award was Rs. 5000 each. A total of 12 prizes were awarded up to a cash value of Rs. 1,20,000/-.

For the first time in the history of ISRS, the Metallography contest was introduced in three different categories: optical, scanning, and Transmission electron microscopy. About 35 participants actively participated in the competition and the first and second winners were awarded merit certificates, medals, and cash prize

For Detailed Report

[CLICK HERE](#)



TREE PLANTATION IN IITM CAMPUS

Due to the Vardah cyclone, a lot of green cover in the campus (around 650 trees) was lost. Most of the damaged trees are non-native trees. More native trees was planned to restore the green cover.

Phase 1 of Tree Plantation was successfully completed. Approx. 600 trees were planted each costing Rs.2000 (including cost of the tree, tree guards, labor, and maintenance).

The phase comprised of two tree plantation events where one was held with CSR partners and the other one with Alumni. The CSR partnered plantation event was organized along with Wells Fargo and United Way Chennai Teams. The plantation drive organized with alumni had seen active participation from alumni.

Phase 2 on a similar scale was held in 2018, where 600 trees were planted again.

Alumni actively participating in the plantation drive



CSR partners at the plantation drive



1977 BATCH RUBY REUNION FUND – FORECOURT IN FRONT OF NEW ACADEMIC COMPLEX

The forecourt in front of the New Academic Complex was contributed by the batch of 1977 during their ruby reunion.

Photographs of the forecourt in front of New Academic Complex





AMALGAM 2017

Amalgam is the annual technical festival for the Department of Metallurgical and Materials Engineering of IIT Madras. It was founded 9 years ago as an expression of the spirit of Materials science and Engineering. Spread over a period of 3 days, one can witness the core of engineering manifested in the form of a multitude of events like Paper and poster presentations, Industry defined problems, Math modeling, Spirit of Materials Engineering, Etch it, Process planning, Jaagruthi, etc. Both UG and PG students of Metallurgical and Materials Engineering and its allied departments like Mechanical and Chemical Engineering participated in the event.



The festival includes the following events:

- Paper presentation, Industry Defined Problems (IDP)
- Process planning
- Etch it
- Quizzing events
- Department open house
- GD Challenge
- Spirit of Materials Engineering (SoME)
- Treasure Hunt
- Photography
- T-shirt design contest



E.G. RAMACHANDRAN INSTITUTE CHAIR

Chair Professorships are awarded to Professors who are recognized by their peers for making a distinguishing contribution to research and/or technology development. This award is for a period of 5 years followed by a review and possible extension.

Generous contributions were received from several alumni for the E. G. Ramachandran Institute Chair Professorship. Prof. E G. Ramachandran was one of the first Professors and Head of the Department of Metallurgical Engineering. A great teacher and scientist, he has mentored several generations of metallurgists

Chair Occupant:



Prof. M. Kamaraj

Dept of Metallurgical and Materials Engineering

Academic Background:

- Master of Science in Materials Science (1984), PSG Tech
- Master of Technology in Metallurgical Eng (1986), KREC
- Ph.D. in Metallurgical Engineering from the Indian Institute of Technology Madras

Research Interests:

- High-temperature deformation of behavior of advanced materials
- Wear behavior of coatings, and Inter-metallic reinforced PM based composites
- Fretting Fatigue behavior of Bio-medical implant materials

Research Activities:

- Creep deformation and fracture mechanisms of Thermal sprayed coatings and Modified 9Cr-1Mo Steels with and without welded joints
- Development of Wearsurfacing materials; Tribological tests on weld deposits (Plasma Transferred Arc, Plasma Spray, HVOF processes etc.)
- Studies of the relationships between processing, microstructure, deformation and fracture processes in advanced materials
- Fretting fatigue of structural materials and Bio-implant materials
- Development of Marine propeller materials

Awards:

- **Sudarshan Bhat Memorial prize** for the best Ph.D thesis in the department of Metallurgical Engineering, IITM (1990)
- **STA Post-Doctoral Fellowship:** National Institute of Industrial Safety, Tokyo



TEAM AVISHKAR HYPERLOOP 2019

“Developing technologies for the 5th mode of transportation”

To realize the dream of the Indian Hyperloop, the team is working on technologies like Hyperloop infrastructure, pod, magnetic propulsion, and levitation, with the scalability of systems as the primary objective.

Achievements:

- The latest pod, Avishkar 5.0, built during the pandemic through relentless effort, emerged in the Global Top 5 in three categories – Electrical Subsystem, Traction Subsystem and the Complete Pod Category in the European Hyperloop Week 2022
- Competed virtually in European Hyperloop Week 2021 and won the ‘Most Scalable Pod Design’ award by Zeleros Hyperloop.
- The only Asian team at the SpaceX Hyperloop Pod Competition 2019 final.



Avishkar Hyperloop's POD 2022: THE POD 5.0

The team's most recent technological marvel, the Pod 5.0, is designed to be Asia's first Hyperloop Pod that runs on its own custom-built track that supports levitation. Completed in July of 2022, this Pod was shown to the world in the European Hyperloop Week 2022 where it was nominated in key categories like Electrical Systems, Traction Systems, and the Complete Pod category



COVID-19 RELIEF FOR INDIA

The COVID-19 pandemic became an emerging global health crisis and required the best of our efforts to overcome it. The sudden outbreak of pandemic had already created an enormous medical and financial burden shattering many lives.

The second wave of COVID-19 immensely affected the public's mental health and well-being in a variety of ways, including isolation and loneliness, job loss and financial instability, and illness and grief. Many organizations, institutions, and individuals came forward to support the nation both financially and socially.

Glimpses of the contributions:

- IIT Madras handed over **200 oxygen concentrators** to the **Government of Tamil Nadu**.



Donated BiPAP units, Injections and medicines

- Contributed **200 oxygen concentrators** (5 litres each) to the **Government of Telangana**.

IIT Madras launched a campaign to raise funds for supporting various causes. The Institute exceeded its goal of raising \$1 million in 48 hours. Overall IIT Madras Alumni and other well-wishers have come together and raised more than \$2 million.

Below are the causes for which the funds were used:

1. Purchase of Oxygen cylinders, BiPAP machines, Injections, and Medicines
2. Healthy meals for students who were stranded in the institute during covid.
3. Financial help to more than 150 Ph.D. scholars to pursue their research without any constraints.

- Contributed **200 oxygen concentrators** (10 litres each) to the **Government of Karnataka**.



- Contributed **1000 units of covid medicines** to Sri Venkateswara Institute of Medical Science (SVIMS), Chittoor



- **Provided healthy meals to students** who were stranded during Covid pandemic with the help of a nutritionist. Arrangements were made to serve paneer, banana, and eggs as optional extras.



- **Financial support was provided to Ph.D. scholars as stipend.** This helped them to carry out their research without hindrance.

Gratitude notes from some of the Ph.D. scholars



Ajay A P

“I wish to thank all the donors from the bottom of my heart. The relief provided helped me look after my family during that nightmare phase and thereby focus on my research more”

“I am really appreciative of the assistance received from my alumni during my most difficult time. I'm hoping that someday I'll be in a position to help out my fellow students”



Sunny Sharma



Bhadra Hrishikesh

“The pandemic was a tough period for all of us. And it is very stressful for scholars especially when they are on the final stage and the stipend period has ended. I am very grateful to the alumni and non alumni members who contributed in supporting scholars like me. You are inspiration to us by making us understand the importance of giving back to our community”

"I would like to express my sincere gratitude to all the alumni and non-alumni donors for generously donating towards the cause of Covid-19 relief with which we were supported with our stipend. I wish to prolong my appreciation to all who worked behind to make the entire process work smoothly. The financial support from you helped me greatly"



Dipanjan Majumdar



Ashok kumar

"My deepest and sincere thanks to the donors who had generously donated to help research scholars whose fellowship got over. Covid 19 is a devastating scenario for every people and it was a catastrophe for scholars like me who were at the middle of our research work.

Your contribution has tremendously helped to fight back the crisis during COVID 19 pandemic in both research as well as personal life. The money was spent to pay my hostel and institute fees. Some portions were also helped for my survival. I also thank Dean, Alumni and corporate relation and his team for taking swift action which had restored my research career"

"Dear donor, I (as a part of fellow other beneficiaries) thank on your intention to help the researchers monetarily on continuing the research activities. This covid situation not only extended time period of our research activities. For me, it affected the work as I lost my samples during this lockdown. Then I managed to cope up with the work by reviving strains and I am happy that you are willing to support to finish rest of my work. This will help me monetarily as I don't have earning person in my family"



Ashok kumar

- The funds received were also given to the IIT Madras Employees who were financially struggling during the pandemic.



O PRABHAKAR FACULTY FELLOWSHIP

The IIT Madras has been recognizing senior professors in the form of Institute Chair Professorship. However, the young faculty do not have any mechanism to be recognized. The faculty fellow program has been designed to reward and recognize high performing young faculties in IIT Madras.

The management of IIT Madras has approved a proposal to institute a “Faculty Fellow Program” to encourage junior faculty (Assistant & Associate Professors, entry-level Professors) who have demonstrated a strong early-career trajectory through a combination of research excellence, impactful industrial consultancy, social impact, and patentable products, along with an enthusiastic mentoring of IITM undergraduates & PGs to pursue higher academic pursuits and industrial careers.

For the O Prabhakar Faculty Fellowship, once sufficient funds are collected the occupant will be identified.



1977 BATCH SAPPHIRE REUNION – MCM SCHOLARSHIP ENDOWMENT

The sapphire reunion of the 1977 Batch was held on 30th Jan 2023. The batch has previously supported causes like constructing the entire forecourt in front of the New Academic Complex (NAC), Himalaya Neelkant Wing, and AIR conditioning of CRC Classroom.

During their Sapphire reunion, the batch contributed some funds which will be used towards the Merit-cum-Means scholarship



SHANKARI SUBRAMANYAM IMPACT GRANT

Shankari Subramanyam Impact Grant aims to provide funds annually or semi-annually to researchers in the IITM Department of Metallurgical and Materials Engineering to further collaborative research within the institute and industry in India and overseas. The department formed a faculty committee that will be closely monitoring the grant. The faculty committee members include

Dr. N.V. Ravi Kumar, HoD

Dr. Parasuraman Swaminathan, Chairman

Dr. Anand Krishna Kanjarla

Dr. Sreeram Kalpathy

Dr. Bhuvanesh Srinivasan

Dr. Rohit Batra

The committee members came up with three recommendations for utilization of SSIG with an aim to promote collaborative research and also improve the visibility of the department at the international level.

Recommendation 1

A travel grant to regular full-time faculty members in the department to initiate collaborative research.

1. The grant is to be utilized to start a new collaboration with a research group abroad, with a potential to develop this as a long-term collaboration supported by external funding agencies
2. The travel grant would be capped at 1.5 lakhs INR per visit.
3. The committee envisages a maximum of three such grants to be provided in an academic year, to be distributed among Assistant, Associate, and Full professors.
4. Applications will be solicited from faculty members and will be evaluated based on their merit. Potential for follow-up work, including student exchanges and future collaborations will be considered as part of the evaluation process.
5. Keeping in mind the nature of the grant it would be restricted to full-time faculty members not within five years of superannuation.

Recommendation 2

A named visiting fellowship to invite full-time faculty members/scientists from abroad to the department to initiate collaborative research.

- 1.To invite full-time faculty members and scientists to visit the department and spend a minimum of two weeks interacting with the faculty members, post docs, graduate and undergraduate students with an aim of developing long term research collaboration.
- 2.The program will be modeled on the current GIAN program with applications solicited from department faculty members who can propose potential visitors (an informal consent may be obtained). The applications should include the details of the planned activities during the visit and the potential for follow-up work, including student exchanges and future collaborations.
- 3.Preference will be given to applications that encourage new collaborations.
- 4.The visiting fellowship will be capped at 5000 USD (including travel). Local hospitality expenses will be taken care of.
- 5.In keeping with the aim of developing long term collaborations preferences will be given to visiting faculty members below 45 years of age. Exceptions can be made in the case of faculty members holding administrative positions and who would be able to help with personnel exchange (both faculty and students) and can foster further research interactions.

Recommendation 3

Financial support for doctoral students to visit research groups for academic interaction.

- 1.The aim is to provide opportunities for doctoral students in the department to visit research labs abroad for academic interaction. It is expected that such interactions can lead to potential postdoctoral positions and improve visibility.
- 2.This is envisaged as an additional financial support to doctoral students already traveling abroad for conferences/workshops.
- 3.To choose suitable doctoral candidates at least 3 first author/equal contribution publications will be imposed while exceptions can be made for first author/equal contribution publications in highly reputed journals (to be decided on a case-by-case basis).
- 4.The financial support will be capped at 1 lakh INR per student



REUNION MEMORIES

Ruby Reunion



Sapphire Reunion



We are grateful to you & your family

Mr. Dilip Subramanyam



We express our heartfelt gratitude for your continued and generous support to IIT Madras throughout the years. We trust that you take great pride in your bond with IIT Madras and the unwavering dedication it has demonstrated towards academic and research excellence since the time of your association.

Your invaluable contributions, alongside the support of your family, have played a pivotal role in facilitating this remarkable growth. We are privileged to have you and your family walking with us along this journey. We extend our best wishes to you and your family. We thank you for your continued support to your alma mater.



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