



Indian Institute of Technology Madras
Office of Alumni and Corporate Relations

Celebrating the generosity

of

Mr. Sunil Dutt B



Impact of your giving in 2023



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!

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!



**"GIVING IS NOT JUST ABOUT
MAKING A DONATION -
IT'S ABOUT
MAKING A DIFFERENCE"**



Mr. Sunil Dutt B

1977/BT/ME

Managing Director, Indus Biotech Private Limited

Mr. Sunil Dutt Bhaskaran, the esteemed Managing Director of Indus Biotech Pvt Ltd, is a distinguished professional with a background in Mechanical Engineering from the Prestigious Indian Institute of Technology, Madras, graduating with honors as part of the class of 1977. His academic excellence and leadership skills are evident in his role at the helm of Indus Biotech, where he continues to steer the company towards success with his visionary approach and strategic acumen.

Mr. Dutt boasted an illustrious career with Hindustan Lever Ltd, where he ascended through various managerial roles since commencing as a Management Trainee in 1977. His remarkable contributions are exemplified by an impressive portfolio of 169 granted patents spanning Components of Matter, Method of Making, and in Commercial Applications. His dedicated focus on Prospecting for Molecules derived from raw materials within the food chain underscores his pioneering efforts in developing innovative solutions for the management of chronic diseases.

SUMMARY OF YOUR CONTRIBUTION

01

**Development of Narmda
Hostel**

02

**M. A. Parameswaran
Institute Chair**

03

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

This report will present a thorough assessment of the impact that your contributions have made towards the causes outlined below:

- ✓ **M. A. Parameswaran Institute Chair**
- ✓ **1977 Batch Ruby Reunion Fund – Forecourt in front of New Academic Complex**

M. A. PARAMESWARAN INSTITUTE CHAIR

Chair Professorships are awarded to Professors who have distinguished themselves and have been recognized by their peers for their research and/or technology development.

This Institute Chair was named in honor of Retd. Prof. M. A. Parameswaran and the current occupant is **Prof. A. Ramesh**.

Retd. Prof. M.A. Parameswaran, a highly popular teacher in IITM's Mechanical Engineering Department, was the Head of Department from 1983 to 1986. He was well known for his dedication in teaching Mechanical Design. He had made an impact with his superb teaching, perseverance in imparting knowledge, and desire to see his students achieve excellence in all aspects of life. Prof. Parameswaran visited West Germany as a visiting faculty from Dec 1978 to Dec 1979 and had won accolades for his excellence in teaching and designs. He is known among his peers as a designer par excellence. Prof. Parameswaran was President of IIT Madras Alumni Association in the 1990's. He was instrumental to Alumni Silver Unions during that time. He was one of the first trustees for the IIT Madras Alumni Charitable Trust, formed in 1993. The 3 books that he has authored on Mechanical Design, are of extreme value to students.

The chair was launched during AlumNite which took place on July 19, 2018, at the ICSR Auditorium, IIT Madras.

To view the Photos of Prof. M.A. Parameswaran Chair Launch [CLICK HERE](#)

To view the Video of the Chair Launch [CLICK HERE](#)



Prof. M. A. Parameswaran

Retired Professor
Department of Mechanical Engineering

About the Chair Occupant:



Prof. A. Ramesh

Department of Mechanical Engineering

Prof. A. Ramesh has a Ph.D. in Internal Combustion Engines from IIT Madras. He did his post-doctoral research at Ecole National Superior De Nantes (EMN), France. He is currently M. A. Parameswaran Institute Chair Professor at IIT Madras. Ramesh has worked in the engine R & D group in Bharat Earth Movers Limited and also as Assistant Professor in IIT Delhi. He has guided several students for their Ph.D. and master's degrees and has published more than 185 research papers in Journals and Conferences.

He works on several projects jointly with Automotive Industries. He has also undertaken several sponsored projects and has played a key role in the establishment of the Automotive Laboratories at NCCRD at IIT Madras. Out of the 21 patents that he has filed/been granted, many are with automotive industries.

Prof. Ramesh has received the Srimathi Marti Annapurna Gurunath Award for Excellence in Teaching from IIT Madras, Lifetime Achievement Award from SAE India (Southern Section) and the Baghyalakshmi Krishna Iyenger Award five times at IIT Madras. He was also given the Gem of ACCET award. He was also judged by the outgoing students at IIT Delhi as the best teacher. Several of his B. Tech, M. Tech and Ph.D. students have won best project and thesis awards at IIT Madras and at IIT Delhi.

He served as the Chairman of the Center for Continuing Education at IIT Madras during which time the Web Enabled M. Tech for industry sponsored candidates was started. He has been on several expert committees in DST, MNRE, ARAI, CSIR, TIFAC, DRDO, AICTE, ADE, NITs and IITs.

Broad Areas of Research:

Prof. Ramesh's main areas of research are combustion and emission control in Internal combustion engines, Hybrid electric drives for automotive applications, Alternative fuels and novel combustion systems like reactivity-controlled compression ignition, Gasoline Direct Injection, and hot surface ignition. Engine instrumentation and control.

Current projects and those undertaken in 2023:

- ✓ Development of a Hot Surface Ignition Engine Running on neat methanol For Automotive Applications.
- ✓ A Novel Biofuel Based Twin Injector Multi-mode Genset Engine for High Performance and Low NOx Emissions - Development and Demonstration.
- ✓ Development and validation of a cost-effective hybrid electric drive solution for small two wheelers for reducing CO2 emission (HERCET)
- ✓ Studies on combustion chamber development for GDI engines.

Recent Honours, Awards and Affiliations:

- ✓ Awarded the **Lifetime Achievement Award** by SAE India Southern Section in 2018.
- ✓ Awarded the **Gem of ACCET award** in 2017.
- ✓ **Srimathi Marti Annapurna Gurunath Award for Excellence** in teaching by Indian Institute of Technology Madras, 2017.

Plans for the year 2023-24:

- ✓ Optimization studies on the performance and emissions of a parallel hybrid two-wheeler for sizing of the components for a particular operating scheme.
- ✓ Development and demonstration of a two-wheeler with control strategy for fuel economy employing a novel two speed automatic gear train.
- ✓ Combustion and emission studies on a DME-Biogas RCCI engine along with small amounts of hydrogen for combustion enhancement.
- ✓ Further CFD and experimental studies on the use of methanol port injection along with methanol direct hot surface ignition for extended load range.

Glimpses from the Chair launch...



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.

To visually experience the entire forecourt in front of the New Academic Complex

[CLICK HERE](#) 

Photographs of the forecourt in front of New Academic Complex:



Glimpses from the 1977 batch sapphire reunion...



We are grateful to you & your family

Mr. Sunil Dutt B



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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