

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)

Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.
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Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka

A REPORT ON visit of AIET team to

(a) TIFR Mumbai and IIT Bombay to review progress of ongoing DST-SERB-CRG project (File Number: CRG/2021/000722) during March 20–22, 2023 and

(b) Organization and participation in iCOLD-2023 at DIAT Pune during March 23-25, 2023

AIET team: Dr. Richard Pinto, Dr. Jayarama A and Dr. Satyanarayan, AIET Moodbidri

Visit to TIFR on March 20, 2023: Host: **Dr. Shriganesh Prabhu**, TIFR. After discussion about the ongoing DST project, the AIET team visited the lab where the Hydrogen Fuel Cell (HFC) work was initiated by AIET. The team also visited the advanced workshop at TIFR where electrodes with fuel flow channels are being fabricated using CNC machines and also many places which were being used for membrane-electrode assembly of HFCs.





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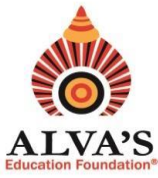
TIFR Entry Permission Slip

Visit to IITB on March 21, 2023: Host: **Dr. Siddarth Duttagupta**, Dept. of Electrical Engineering and **Dr. Arnab Dutta**, Dept. of Chemistry, IIT Bombay.

After discussion about the ongoing DST project, the AIET team visited the nano-electronics lab which is used for the fabrication of many devices (Dr. Richard Pinto was the key member in setting up the lab earlier when he was at IITB). Then the team visited the Chemistry lab of Dr. Arnab Dutta where the team saw the HFCs being successfully tested using a home made test station. Team also saw the work on photocatalytic hydrogen generation.



Visit to Dr. Arnab Dutta lab, IITB



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In lab with Dr. Micheal and Dr. Yashwanth, IIT B

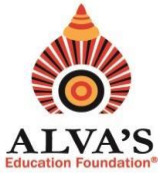


Nano-Fabrication Lab, IITB



Infront of main building IITB

Organization and participation in iCOLD-2023 at DIAT Pune



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Delegates on iCOLD podium



Delegates releasing iCOLD proceedings

The inaugural function of the International Conference (iCOLD 2023) was held at CV Raman Auditorium. The chief guest for inauguration was Shri Hari Babu Srivastava, Director at DRDO HQ. Delhi, presided over by Dr. C. P. Ramanarayanan (Vice -Chancellor, DIAT, Pune) along with conference Chair Prof. Sangeeta Kale, DIAT, Pune, Co-Chair Prof. M. S. R. Rao, IIT Madras and Co-Chair Prof. Richard Pinto, (Dean Research, AIET, Moodbidri). The Convener was Dr. Suwarna Datar, DIAT Pune. The conference had a series of lectures, Plenary, invited, oral and poster presentations.

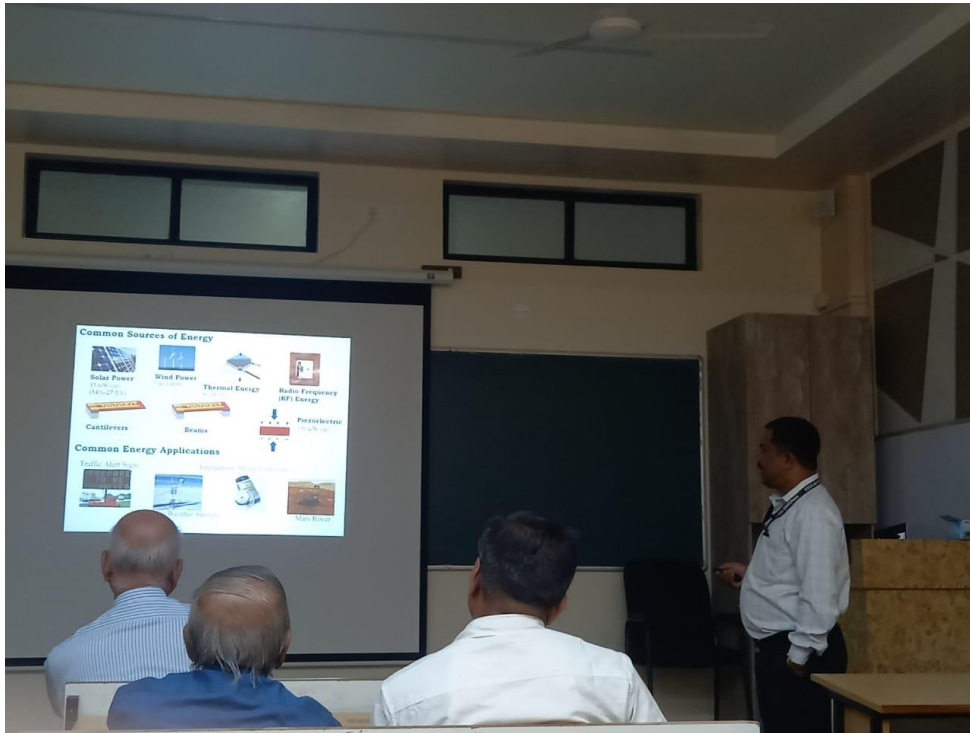


Plenary talk by Dr. Richard Pinto



Invited talk by Dr. Satyanarayan

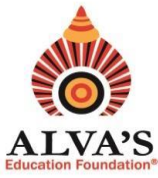
Dr. Richard Pinto delivered a plenary talk on Advances in hydrogen fuel cells, Dr. Satyanarayan delivered an invited lecture on Characterization and Investigation on Thermal Performance of Low Melting Alloys (LMAs) as Thermal Interface Materials (TIMs) and Dr. Jayarama A delivered an invited lecture on Design, Simulation and fabrication of micro-cantilevers and beams as energy harvesters for portable device applications.



Invited talk by Dr. Jayarama A



Poster presentation by Mr. Nithin and Mr. Shashwath Gowda



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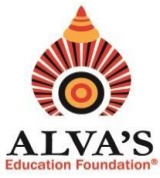
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Two students of AIET presented one poster each during the poster session on March 24, 2023. Just after the valedictory function on March 25, 2023, the team visited various labs and specifically saw the work on hydrogen generation by Dr. Prashanth Kulkarni. Visit to Dr.Kulkarni's lab was so useful that he has agreed to become a collaborator and Co-investigator in the proposed DRDO proposal on photocatalytic hydrogen generation and development of hydrogen fuel cell stacks. This proposal will be prepared and submitted soon. The team returned back on March 26. 2023 via Mumbai.



AIET team with Dr. Prashanth Kulkarni, DIAT Pune



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Few Selected Photos



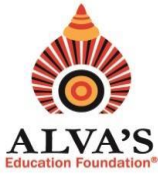
iCOLD 2023 delegates and organisers



AIET Team



AIET Team in front of C V Raman Centre, DIAT Pune



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Student's participation certificates

PRINCIPAL

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