Indian Cryogenics Council

CRYO-CONNECT

Directory of Members

Conceptualised by

Dr. R. G. Sharma

President, Indian Cryogenics Council

Year 2026

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INDIAN CRYOGENICS COUNCIL

CRYO CONNECT
(A Directory of ICC Members)

With compliements from
ICC North Zone

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PRESIDENT'S MESSAGE

Dr. R G Sharma

It is a great pleasure to present the directory of the Members and Fellows of the **Indian Cryogenics Council (ICC)** for which we had been waiting for quite sometimes. The initiative for the compilation and bringing the directory out, was taken by the North Zone of the ICC. The directory does not comprise merely the names and contact details of the Fellows and the Members but it represents the collective strength and expertise of a distinguished community of scientists, engineers, academicians, and industry professionals engaged in cryogenic research, engineering, and allied technologies. The contributions of ICC members span research, industry, education, and innovation across diverse applications, including space, accelerators, superconductivity, medical systems, and industrial cryogenics.

ICC continues to serve as a common platform for collaboration between academia, research institutions, industry, and start-ups, promoting knowledge exchange and capability development in cryogenics. The Council's progress and impact are driven by the commitment and professionalism of its members. This directory is intended to facilitate professional interaction, technical collaboration, and outreach within the cryogenic community.

I sincerely thank Dr. Tushar Bhowmick Chairman, Dr. Hari Kishan, Secretary and Dr. Anuj Kumar Joint Secretary NZ for having taken the responsibility and bringing out the directory. I also acknowledge the cooperation and support of all the members and fellows in the compilation of this publication.

With best wishes,

Dr. R G Sharma
President
Indian Cryogenics Council

PREFACE

It gives us immense pleasure to present this document. The Indian Cryogenics Council (ICC), founded in 1975, has completed 50 years of dedicated service to the advancement of cryogenics, low-temperature physics, and superconductivity in India. ICC is a professional society comprising academicians, research scientists, technocrats, and engineers from research institutions, universities, and industry engaged in these fields. As of today, ICC has a membership of more than 900 members spread across the country.

The need for this Directory has been felt for several years. On the initiative of the present President of ICC, Dr. R. G. Sharma, the North Zone undertook the responsibility of preparing a comprehensive directory of all ICC members, which will be uploaded on the ICC website. In addition, a limited number of hard copies (initially 150) will also be printed. This Directory contains brief biodata of each member, including areas of expertise, contact numbers, email addresses, present affiliation, and professional status. The document is expected to facilitate communication and interaction among ICC members and to enable Indian industry to benefit from direct interaction with experts for addressing technical challenges.

We express our sincere gratitude to the President, Dr. R. G. Sharma, for his untiring support and guidance throughout this effort, beginning with the preparation of the data-collection proforma and continuing until the completion of this Directory. The information was collected through emails, follow-up reminders, and telephonic communication. We sincerely thank all ICC members for providing the required details, including their areas of expertise, which will also assist the Chief Editor of the Indian Journal of Cryogenics (IJC) in identifying appropriate reviewers for submitted manuscripts, and for their willingness to review journal papers. Special thanks are due to Mr. Rajeev Sharma, looking after the Cryogenic Facilities (Liquid Helium and Nitrogen Plants) at National Physical Laboratory, in arranging various advertisements in this document. We also acknowledge with thanks all those who contributed, directly or indirectly, to the successful completion of this work.

The directory would be updated periodically as more members submit the forms or the new members are inducted in to ICC fold.

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Chairman
ICC-North Zone
bhowmick.tushar@gmail.com

Dr. Hari Kishan
Secretary
ICC-North Zone
nplhkishan@gmail.com

Dr. Anuj Kumar
Joint Secretary
ICC-North Zone
anuj.quantum@gmail.com

Startups, MSME!

Facing challenges in low-temperature/liquefier systems, cryogenic and superconducting technologies?

Engage with ICC to find solutions to your cryogenic challenges efficiently

The **Indian Cryogenics Council (ICC)** offers industry and startups direct access to a distinguished pool of **low-temperature physicists, cryogenic engineers, gas liquefaction experts, and superconducting materials and magnet specialists**

ICC Expertise Covers:

- Cryogenic system design, optimization, and troubleshooting
- Helium and hydrogen liquefaction & refrigeration
- Superconducting materials, magnets, and cryogenic integration
- Vacuum systems, thermal insulation, and instrumentation
- Scale-up challenges for industrial and startup applications
- Reliability, efficiency, and safety assessments

Why ICC?

✓ Decades of domain experience
✓ Practical, solution-oriented guidance
✓ Independent, confidential technical consultation
✓ Strong academia–industry interface

Contact:

Dr. R G Sharma
President ICC
rgsharmaicc@gmail.com

Dr. Uttam Bhunia
Secretary ICC
ubhunia@vecc.gov.in

ICC website: www.indiancryogenicscouncil.com

The 50 Years of ICC: Advancing Cryogenics Research and Development in India

The Indian Cryogenic Council (ICC) commemorated its 50th anniversary by holding a two-day Golden Jubilee Conference on 13-14 November, 2025 at the Variable Energy Cyclotron Centre (VECC), Kolkata.

MEGHNAD SAHA AUDITORIUM

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Imtek Cryogenics Inside Front Cover

CSIR-NPL Inside Back Cover

Adyam Venimadhav

Name	Adyam Venimadhav
Date of Birth	August 1972
LM No.	#900
Date/Year of joining ICC	11th July 2022
Life Member / Fellow	Life Member
Affiliation	Cryogenic Engineering Centre, IIT Kharagpur
Position Held at the time of retirement	In Service
Address Official	Cryogenic Engineering Centre, IIT Kharagpur-721302
Expertise	Quantum Materials and Devices, Multiferroics and Spintronics, Thin Films Low-Temperature Measurements, Li/Na ion rechargeable Batteries
Total Research Experience	30 years
Address Residential	
Email ID	venimadhav@cryo.iitkgp.ac.in
E mail ID alternate	a.venimadhav@gmail.com
Phone No.	+91 9775021822
Area you would be comfortable to review papers for Ind. J. Cryo	Adiabatic demagnetization refrigeration, Quantum Materials & Sensors.

Highlight of the scientific achievements

Prof. Venimadhav Adyam, presently is a Professor of Cryogenic Engineering Centre has joined the IIT Kharagpur in 2006 and initiated research in several key technological areas including quantum materials, spintronic devices and rechargeable batteries for energy storage applications. Dr Adyam obtained PhD from the Indian Institute of Science, Bangalore in the faculty of Science in 2001 and subsequently worked at University of Cambridge, UK and at Pennsylvania State University, USA as a postdoctoral fellow.

His research spans quantum materials, strongly correlated electron systems, quantum paraelectrics, and geometrically/spin-frustrated systems in bulk and thin-film forms. His experimental lab features advanced facilities for probing order-parameter coupling, quantum paraelectricity, magnetic and dipolar glassy dynamics, and magneto- and electrocaloric effects. Notably, his group has demonstrated multicaloric effects in multiferroics. Prof. Adyam has spearheaded research on sodium- and zinc-ion batteries, securing 7 patents for innovative cathodes and air-stable electrolytes that enhance safety and low-temperature performance. His internationally acclaimed work—bolstered by over 200 publications, major sponsored projects, and global collaborations—has advanced quantum materials and spin-based devices, earning him the MRSI Medal for outstanding materials research.

Agrawal D. H.

Name	Mr. Agrawal Dhawal Harilal
Date of Birth	October 1987
LM No.	686
Date/Year of joining ICC	2011
Life Member / Fellow	Life Member
Affiliation	LD College of Engineering
Position Held at the time of retirement	
Address Official	
Expertise	Cryogenics
Total Research Experience	
Address Residential	36, Prestige Bungalows, Nr. Mevad Trading Company, Opposite Nidhi Bank, CTM Cross Roads, Amraiwadi, Ahmedabad – 380026
Email ID	dh_agrawal1@yahoo.co.in
E mail ID alternate	dhagrawal1@gmail.com
Phone No.	992517900
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Published 5 papers in International Journals
Published 1 paper in National Journal
Presented/Published 9 papers in National Conferences
Presented/Published 3 posters in National Conferences

Agarwal D. K.

Name	Dr. Agarwal Deepak Kumar
Date of Birth	October 1979
LM No.	1111
Date/Year of joining ICC	2009
Life Member / Fellow	Life Member
Affiliation	LPSC, ISRO
Position Held at the time of retirement	
Address Official	TAEG, PASE LPSC ISRO Valiamala, Trivandrum Kerala – 695547
Expertise	Cryogenics
Total Research Experience	
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Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Thermal and Fluid flow expert

Aloysius R. P.

Name	R P Aloysius
Date of Birth	May 1974
LM No.	
Date/Year of joining ICC	
Life Member / Fellow	Life Member
Affiliation	CSIR-National Physical Laboratory, New Delhi-110012
Position Held at the time of retirement	Chief Scientist (Scientist-G)
Address Official	DR Lab (TEC-1A), Electrical & Electronics Metrology, CSIR-NPL, Dr K S Krishnan Marg, New Delhi-12
Expertise	Superconductivity, Magnetism and Cryogenics
Total Research Experience	20 years
Address Residential	D-II/2, NPL Colony, New Rajinder Nagar, New Delhi
Email ID	alosrp.nplindia@csir.res.in
E mail ID alternate	rpaloysius@gmail.com
Phone No.	011 45608356
Area you would be comfortable to review papers for Ind. J. Cryo	Yes

Obtained Ph.D. in high-temperature superconductors on the development of high-Tc superconducting current leads from Regional Research Laboratory (CSIR) Trivandrum in 2003. Joined CSIR-NPL as Scientist 'C' in 2006, after three years of Research Associate (RA) from RRL, TVM. During the tenure in NPL (from 2006-2012), the international peer review of magnetic standards division of NPL has been successfully completed. From 2012 onwards, my research focus has been shifted to ultra-low temperature physics with the help of Dilution Refrigerator (DR). Research focus was on superconducting nanowires, 2DEG systems, and proximity Josephson junctions. Current research activity includes design and development of SNSPDs, MKIDs and other quantum detectors and microwave resonator circuits using superconducting films. Also working towards the development of quantum current standards (QCS) for the SI unit of 'Ampere', Quantum Impedance standards for the SI unit of 'Farad' etc. I have started superconductivity research by operating LN2 systems and then cryogen free Cryostats and finally to the establishment of Dilution refrigerator at CSIR-NPL in the year 2013. So, superconductivity and cryogenics are the research areas closed to my heart, and currently I am looking to explore on the application areas such as "development of quantum detectors using superconductors".

Amit Roy

Name	Dr. Amit Roy
Date of Birth	July 1948
LM No.	272
Date/Year of joining ICC	5 January, 2004
Life Member / Fellow	Life Member and Fellow
Affiliation	None at present
Position Held at the time of retirement	Director, IUAC
Address Official	Inter-University Accelerator Centre, New Delhi 110067
Expertise	Nuclear Physics, Accelerator Physics, Cryogenics for Accelerators, Superconducting cavity resonators.
Total Research Experience	52 years
Address Residential	3rd Floor, G 1376 Chittaranjan Park, New Delhi -110019
Email ID	amitroy1948@gmail.com
E mail ID alternate	-
Phone No.	+91 8017890915
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics for Accelerators.

Highlight of the scientific achievements

His work on symmetries, new particles and interactions that led to determination of limits of charge non-conservation through the forbidden decay of a neutron, the mass limit for a heavy neutrino, an upper limit for existence of axion and limits for colour van der Waals interaction of hadrons. Determination of a new technique to determine angular momenta in fusion reactions, Determination of structure of deeply bound states in molecules that are otherwise inaccessible in the laboratory. Design and fabrication of a novel niobium superconducting cavity resonator for acceleration of heavy ions for the superconducting linear accelerator for the Inter-University Accelerator Centre. The entire technology for niobium resonator fabrication has been mastered at IUAC and the linac was designed and built indigenously under his guidance. The design and fabrication of large cryostats, cryogen distribution system has resulted in enhancing the capabilities of the Indian industries in this field. An RF assisted plasma deposition set-up has been developed and technology transferred to an Indian industry.

Anand Ankit

Name	Dr. Anand Ankit
Date of Birth	November 1991
LM No.	920
Date/Year of joining ICC	2023
Life Member / Fellow	Life Member
Affiliation	Indian Institute of Technology, Kharagpur
Position Held at the time of retirement	
Address Official	IIT Kharagpur (West Bengal)
Expertise	Superconductivity
Total Research Experience	
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Phone No.	9962251072
Area you would be comfortable to review papers for Ind. J. Cryo	Superconductivity

Highlight of the scientific achievements

I have worked in the field of applied superconductivity. During my M. Tech, I have worked on I-V characterization of HTS tape under strain. During Ph.D I have worked on optimization of superconducting magnet energy storage, high temperature superconductor coil winding, fabrication and testing.

Anand Pal

Name	Dr. Anand Pal
Date of Birth	December 1983
LM No.	919
Date/Year of joining ICC	2023
Life Member / Fellow	Life Member
Affiliation	Manipal Academy of Higher Education, Manipal
Position Held	Associate Professor
Address Official	Department of Physics, Manipal Institute of Technology Bengaluru, MAHE Bengaluru Campus 560063
Expertise	Superconductivity, Magnetism & Thermoelectrics Materials, Low Temperature Physics, X-ray diffraction, Muon Spin Spectroscopy
Total Research Experience	17 yrs
Address Residential	Vill- Bachhor PO. – Chhaprauli Dist. Baghpat (UP) 250617
Email ID	Sandhu.anand@hotmail.com
E mail ID alternate	Sandhu.anand@gmail.com
Phone No.	9341414500
Area you would be comfortable to review papers for Ind. J. Cryo	Superconductivity, Magnetism & Thermoelectrics Materials, Low Temperature Physics, X-ray diffraction, Muon Spin Spectroscopy

Highlight of the scientific achievements

I have made significant contributions to the fields of quantum materials, superconductivity, magnetism, and energy-relevant functional materials, with research spanning the synthesis, characterization, and physical property evaluation of complex oxides, thin films, and iron-based superconductors. My work has advanced the understanding of magnetic fluctuations, quantum phase transitions, and low-temperature phenomena using techniques such as muon spin rotation (μSR), SQUID magnetometry, transport measurements, and thin-film device fabrication. I have published over 66 peer-reviewed articles in high-impact journals, including Nature Quantum Materials, Physical Review B, and the Journal of Applied Physics, among others. My research includes internationally collaborative experiments at TRIUMF (Canada), Paul Scherrer Institut (Switzerland), and ISIS Neutron and Muon Source (UK), contributing to high-precision studies in superconductivity and spin dynamics.

Anuj Kumar

Name	Dr. Anuj Kumar
Date of Birth	July 1984
LM No.	918
Date/Year of joining ICC	2023
Life Member / Fellow	Life Member, EC Member (ICC) and Joint Secretary (NZ-ICC)
Affiliation	Jaypee Institute of Information Technology, Noida
Position Held	Assistant Professor (Senior Grade)
Address Official	Physics and Materials Science & Engineering, Jaypee Institute of Information Technology, Sector-128, Jaypee Wish Town, Village Sultanpur, Noida-201304, Gautam Buddha Nagar, Uttar Pradesh, India
Expertise	Low Temperature Physics, Superconductivity
Total Research Experience	~ 18 years
Address Residential	
Email ID	anuj.quantum@gmail.com
E mail ID alternate	anujnpldu@yahoo.com
Phone No.	7417956376
Area you would be comfortable to review papers for Ind. J. Cryogenics	Superconductivity, Low Temperature Physics

Highlight of scientific achievements

I have been in field of fundamental research on superconducting and magnetic materials from over ten years by now. After finishing my Ph.D. from CSIR-NPL and University of Delhi I joined NIMS Tsukuba Japan as a Postdoctoral Researcher. Currently, I am working as an Assistant Professor (SG) at JIIT, Noida since 2018. My research experience includes transport, magnetic and thermal property characterization of the studied materials on 14-Tesla PPMS (Physical Property Measurement System, Quantum Design-USA) and 7-T MPMS system.

Atrey Milind

Name	Prof. Dr. Milind Atrey
Date of Birth	December 1962
LM No.	581
Date/Year of joining ICC	1986
Life Member / Fellow	Fellow of Indian Cryogenics Council, FIMechE, Fellow of International Academy of Refrigeration
Affiliation	Department of Mechanical Engineering, IIT Bombay Ex-Oxford Instruments Superconductivity, UK Ex-RRCAT, DAE, Indore
Current Position	Deputy Director, IIT Bombay and INOX Chair Professor (HAG), IIT Bombay
Address Official	Department of Mechanical Engineering, IIT Bombay, Powai, Mumbai – 400076
Expertise	Cryogenic Engineering, Cryocoolers, Heat Exchangers, Dilution Refrigerators
Total Research Experience	40 years till now
Address Residential	
Email ID	matrey@iitb.ac.in
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Phone No.	+91 9833617522
Area you would be comfortable to review papers for Ind. J. Cryogenics	Yes

Highlight of the scientific achievements

- Expert in the Design & Development of Stirling, G-M and Pulse Tube Cryocoolers
- Linear Compressors driven Cryocoolers
- Research interest in Green Technology Applications, Magnetic and Thermoacoustic Refrigeration
- Magnetic Resonance Imaging and Nuclear Magnetic Resonance
- Condensation of Helium at 4 Kelvin
- Mixed Gas Refrigeration for Joule-Thomson Cryocoolers
- Integration of Cryocoolers for cooling Superconducting Magnets
- Guided more than 20 Ph.D. and 50 M.Tech./B.Tech. students

Avinash Chandra

Name	Mr. Avinash Chandra
Date of Birth	21 September, 1995
LM No.	888
Date/Year of joining ICC	2021
Life Member / Fellow	Life Member
Affiliation	Indian Space Research Organisation
Position Held at the time of retirement	
Address Official	CSPEG, Liquid Propulsion Systems Centre (LPSC) Vaniamala, Thiruvananthsapuram, Kerala - 695547
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	aiah2109cada@gmail.com
E mail ID alternate	avinashchandra@lpsc.gov.in
Phone No.	9496825485
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

I have several years of experience in the area of cryogenic and semi-cryogenic liquid rocket engines. My experience includes mathematical modelling of liquid rocket engines, engine cycle design, analysis of engine performance, engine testing, and various launches. I have publications in international conferences and journals, and have also reviewed an article for an international journal. I have received Udeeyman Yuva Vaigyanik Puraskar-2023â€ awarded by Astronautical Society of India (ASI), The Abdul Kalam Prize-2018 awarded by Caltech, and two gold medals for being the overall best academic performer and topper in B. Tech. at IIST.

Babbar N. K.

Name	Mr. Babbar Narinder Kumar
Date of Birth	November 1949
LM No.	239
Date/Year of joining ICC	
Life Member / Fellow	Life Member
Affiliation	Ex-National Physical Laboratory (NPL) New Delhi - 110012
Position Held	Retired as Scientist F
Address Official	Retired from NPL, New Delhi
Expertise	Cryogenics
Total Research Experience	35 Years
Address Residential	A-1/607, Tower 2, Silver City 2 Purvanchal, Greater Noida (UP)
Email ID	nnee1949@gmail.com
E mail ID alternate	nnee1949@gmail.com
Phone No.	9971867905
Area you would be comfortable to review papers for Ind. J. Cryogenics	Low Temperature Physics

Highlight of scientific achievements

I retired in 2009 after a fulfilling career in cryogenics. My work spanned cryosurgery, cryogenic multi-layer insulated containers, and Pressure Swing Adsorption (PSA) systems for gas separation and purification. In cryosurgery, I contributed to techniques using extreme cold for precise medical applications. I also worked on insulation technology to ensure safe storage and transport of liquefied gases. Later, I held a position in Marketing, where I successfully commercialized around seven technologies over nine years. These diverse roles allowed me to bridge research, industry, and healthcare, making my journey in cryogenics both challenging and rewarding.

Bairagi Nitin

Name	Dr. Nitin Bairagi
Date of Birth	December 1982
LM No.	679
Date/Year of joining ICC	2011
Life Member / Fellow	Life Member
Affiliation	IPR, Bhat Gandhinagar – 382428
Position Held at the time of retirement	NA
Address Official	IPR, Bhat Gandhinagar – 382428
Expertise	Cryogenics, Low Temperature Physics, Superconductivity
Total Research Experience	~ 16 years
Address Residential	NA
Email ID	nbairagi@ipr.res.in
E mail ID alternate	Bantivaisnav007@gmail.com
Phone No.	9714463167
Area you would be comfortable to review papers for Ind. J. Cryogenics	Yes, Cryogenics, Low Temperature Physics and Superconductivity

Highlight of the scientific achievements

HTS/MgB_2 based superconducting current feeders system for fusion devices, Current leads for superconducting magnets, helium refrigerator cum liquefier, Magnetic and transport properties of mixed valence manganites, experiments on 10 kA rated Nb-Ti cable-in-conduit conductor based superconducting magnets and their feeders for Tokamak

Balakrishnan G.

Name	Mr. Balakrishnan G
Date of Birth	June 1963
LM No.	711
Date/Year of joining ICC	2015
Life Member / Fellow	Life Member
Affiliation	Retired as Scientist SF from ISRO
Position Held at the time of retirement	
Address Official	N.A.
Expertise	Cryogenics
Total Research Experience	
Address Residential	No. 2, Raja Rajeswari Nagar, Opposite L.B. Nagar, Dharmapuram Road, Mayiladuthurai – 609001 (TN)
Email ID	balki1964@gmail.com
E mail ID alternate	balki1964@gmail.com
Phone No.	9385581481
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Themal insulation of cryogenic rocket stages for GSLV & GSLVM3 rockets for Indian space program. Grand success of Chandrayaan mission is major milestone achievement.

Bapat S. L.

Name	Prof. Bapat Shridhar Laxman
Date of Birth	October 1952
LM No.	ICC W-158
Date/Year of joining ICC	1983-84
Life Member / Fellow	Life Member
Affiliation	Retired from Mechanical Engineering Department, IIT Bombay, Powai, Mumbai – 400076
Position Held at the time of retirement	Professor
Address Official	
Expertise	Cryogenics
Total Research Experience	
Address Residential	9-C Anjaneya CHSL, Hiranandani Gardens, Powai, Mumbai – 400076
Email ID	slbapat1952@gmail.com
E mail ID alternate	Slbapat1952@gmail.com
Phone No.	9820120080
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Research work is related to Refrigeration and Cryogenics. Projects in area of Superinsulation, Stirling Cryocoolers, Cryogenic regenerators, Absorption and Adsorption Systems and Stirling Engines. Worked on projects sponsored by ISRO. Supervised 11 scholars for their Ph.D. work in IIT Bombay. Reviewer for various journals and Ph.D. thesis and projects.

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RH systems	**Dew Point Mirrors, SF6 Gas Analyzer, Humidity Generators**
THUNDER SCIENTIFIC CORPORATION	**Precision Humidity Generator - Two Pressure Humidity Generators**
wekomm	**Resistance Standards, Precision Voltage Source, Environment Monitors, Bolometer Bridge.**
leyro	**Temperature Calibration Bath, Dry Block Calibrators, Precision Thermometers, Pressure Calibrator, Digital Pressure Gauges, Dew Point/Humidity/Temperature Probes, Data loggers**
AccuMac Corporation, USA	**Precision Digital Thermometers, Standard Platinum Resistance Thermometers (SPRT), Reference Standard Type S Thermocouples**
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Bathula Murlidhar V A S

Name	Dr. Bathula Murlidhar V A S
Date of Birth	August 1983
LM No.	860
Date/Year of joining ICC	2020
Life Member / Fellow	860
Affiliation	BHEL Corporate R&D
Position Held	
Address Official	
Expertise	Cryogenics; Superconductivity
Total Research Experience	
Address Residential	EMC LAB, BHEL Coporate R&D, Vikasnagar, Balanagar, Hyderabad-500042
Email ID	muralidhareee@gmail.com
E mail ID alternate	bmuralidhar@bhel.in
Phone No.	9848987507
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics; Superconductivity

Highlight of the scientific achievements

Development of 1MVA HTSC Transformer and Development of 200kW HTSC motor (First time developed in India).

Behera S. K.

Name	Prof. Behera Suraj Kumar
Date of Birth	November 1976
LM No.	722
Date/Year of joining ICC	2013
Life Member / Fellow	Life Member
Affiliation	NIT, Rourkela
Position Held at the time of retirement	
Address Official	Department of Mechanical Engineering, NIT, Rourkela
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	beherask@nitrkl.ac.in
E mail ID alternate	suraj.behera@gmail.com
Phone No.	9040893760
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Prof. Suraj Kumar Behera, Associate Professor in the Mechanical Engineering Department at NIT Rourkela, has made significant contributions in the fields of cryogenic machinery, tribology, rotor dynamics, high-speed bearings (including bearings for turbomachinery), and digital twin modeling. Having earned his PhD in Tribology and Rotordynamics from NIT Rourkela in 2018, he has since led 11 sponsored research projects and 2 consultancy assignments. He has guided seven PhD scholars (three of whom have already been awarded), authored more than 50 SCI journal publications, and written several book chapters. His more recent work includes studies on gas foil bearings, hydrodynamic behaviour of spiral-grooved thrust bearings (especially for locomotive turbochargers), stiffness prediction of compliant bump structures in gas foil bearings, and oil-lubricated journal bearings with herringbone grooves. These works advance understanding of bearing behaviour under complex flow, thermal and structural effects, especially relevant for high-speed rotating machines and cryogenic applications.

Bhadra Debabrata

Name	Dr. Debabrata Bhadra
Date of Birth	December 1985
LM No.	901
Date/Year of joining ICC	2022
Life Member / Fellow	Life Member
Affiliation	Bhairab Ganguly College
Position Held	
Address Official	
Expertise	Low Temperature Physics
Total Research Experience	
Address Residential	9/2B Talbagan Lane, FL-1D, Park Circus Kolkata-17
Email ID	bhadra.bgc@gmail.com
E mail ID alternate	bhadra.debabrata@gmail.com
Phone No.	9433205914
Area you would be comfortable to review papers for Ind. J. Cryogenics	Low Temperature Physics

Highlight of the scientific achievements

Dr. Debabrata Bhadra, Associate Professor of Physics at Bhairab Ganguly College, works in the field of nanomaterials, polymer and ferroelectric composites, membranes, and bionanocomposites. His research highlights include designing polymer nanocomposites for energy storage, and developing nano-hydroxyapatite from biological waste for removing toxic metal ions from drinking water. He has led UGC- and state-funded projects, and also contributes as Head of Physics, RUSA Coordinator, and Convener of the Research & Development Cell, actively promoting research and rural outreach initiatives.

Bhandari R. K.

Name	Dr. Bhandari Rakesh Kumar
Date of Birth	10-06-1948
LM No.	LM-511
Date/Year of joining ICC	2006
Life Member / Fellow	Life Member, Former ICC President
Affiliation	IUAC and VECC
Position Held	Retired
Address Official	Honorary Visiting Scientist, Inter University Accelerator Centre (IUAC), New Delhi
Expertise	Cryogenics
Total Research Experience	~ 35 years
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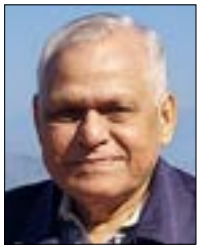
Email ID	rakeshbhandari808@gmail.com
E mail ID alternate	NA
Phone No.	+91-8920120740
Area you would be comfortable to review papers for Ind. J. Cryo.	Cryogenics



Highlight of scientific achievements

Dr. Bhandari is a leading accelerator physicist and technologist of the country. He was associated with the construction of the K130 Variable Energy Cyclotron (VEC) the first large accelerator built in India. Subsequently, he played a leading role in setting up of the K500 superconducting cyclotron and 30 MeV medical cyclotron facilities in Kolkata. He was Director of the Variable Energy Cyclotron Centre (VECC) until June 2012 and held the position as Distinguished Scientist. Presently, he is associated with the Inter University Accelerator Centre (IUAC), New Delhi as an Hon. Visiting Scientist.

Bhargav A. M.

Name	Anish Mahavir Bhargav
Date of Birth	October 1987
LM No.	964
Date/Year of joining ICC	2025
Life Member / Fellow	Life Member
Affiliation	Senior Technical Officer (2) CSIR-National Physical Laboratory (NPL) New Delhi -110012
Position Held at the time of retirement	NA
Address Official	Room No.25, Main Building, CSIR-National Physical Laboratory (NPL), New Delhi -110012
Expertise	Low Temperature Physics, Cryogenics and Superconductivity- Materials & Fabrication
Total Research Experience	~14 Years
Address Residential	F-19, NPL Colony, New Rajinder Nagar, New Delhi - 110060
Email ID	anishbhargav@gmail.com
E mail ID alternate	bhargavam.nplindia@csir.res.in
Phone No.	+91 9958208402 011-45608349
Area you would be comfortable to review papers for Ind. J. Cryo	Low Temperature Physics, Cryogenics and Superconductivity- Materials & Fabrication

Highlight of the scientific achievements

1. Engaged in research, design, and calibration in Quantum Voltage and Nano-Photonics Metrology. 2. Developed and designed various measurement test setups with automation. 3. Maintaining standards in accordance with ISO 17025 for quality management.

Bhattacharya R.

Name	Mr. Bhattacharya Ritendra
Date of Birth	May 1979
LM No.	627
Date/Year of joining ICC	2008
Life Member / Fellow	Life Member
Affiliation	Jefferson Laboratory,Virginia, USA
Position Held at the time of retirement	
Address Official	Thomas Jefferson National Accelerator Facility 12000 Jefferson Ave, Suit #19, Newport News, Virginia, United States of America
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	ritendra@jlab.org
E mail ID alternate	ritbhattacharya@gmail.com
Phone No.	7577909097
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Ritendra Bhattacharya has worked in large-scale cryogenics for the past twenty-two years. As deputy department head of the Cryogenics department at the U.S. Department of Energy's Thomas Jefferson National Accelerator Facility (TJNAF), Bhattacharya is contributing with a focus on cryogenic engineering and projects. He started at the TJNAF back in 2017. In 2002, Bhattacharya began his passion for cryogenics at India's Institute for Plasma Research. He worked as a Project Coordinator for the ITER Cryogenic Distribution and Cryo-Line project before moving to the USA. Bhattacharya has co-authored several publications on various topics in cryogenic engineering and served as a project review panel member for several projects, including SPARK cryogenic, EIC cryogenic, and the DUNE Near Detector Cryogenics project. https://www.jlab.org/people/Ritendra_Bhattacharya_Cryogenics_Deputy_Department_Head

Bhoite S. K.

Name	Mr. Bhoite Sanjiwan Krishna
Date of Birth	May 1976
LM No.	924
Date/Year of joining ICC	2024
Life Member / Fellow	Life Member
Affiliation	Pimpri Chinchwad College of Engineering
Position Held at the time of retirement	
Address Official	
Expertise	Cryogenics
Total Research Experience	
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E mail ID alternate	sanjiwanbhoite1@gmail.com
Phone No.	9923732004
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Currently pursuing Ph.D in thermomechanical treatment of AISI304.

Bhowmick Tushar

Name	Dr. Bhowmick Tushar
Date of Birth	September 1962
LM No.	766
Date/Year of joining ICC	2014
Life Member / Fellow	Fellow
Affiliation	Director, Tudinous Kryos Pvt. Ltd.
Position Held	Director
Address Official	4/203 Beverly Park, Jaypee CGHS, Plot No. 2, Sector-22 Dwarka, New Delhi – 110077 India
Expertise	Cryogenics
Total Research Experience	40 Years
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E mail ID alternate	t.bhowmick@tudinous.com
Phone No.	9810274684
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics

Highlight of the scientific achievements

After completion of Ph.D from IIT Kharagpur in cryogenic engineering and spending a brief stint in cryogenic research during early ninties, I was associated with cryogenic industrial segment of India heading Philips/Stirling Cryogenics in India operation for 2.5 decades. During this period, we were engaged as an organisation in carrying out several customized cryogenic cooling projects at Inter University Accelerator Centre, Institute of Plasma Research, Nuclear Power Corporation of India (NPCIL)-Kudankulam, BHAVINI-Kalpakkam, Indian Institute of Technology - Kharagpur, Microbial Containment Complex - Pune etc. In addition, we were also engaged in development of small capacity liquid nitrogen transfer pumps which were indigenously designed and manufactured in India and sold to users of India. After retirement, I got engaged with a Indian farm as a consultant to develop a small capacity liquid nitrogen plant for Indian market and also on development of small / micro LNG systems for automobile fuel station under technology collaboration with Stirling- Netherlands and Hysytech-Italy. The liquid nitrogen plant was developed successfully and present under supply against a customer order. Additionally, I was always connected with the cryogenic community of India and associated with Indian Cryogenic Council for last 40 years in different format. I was a part of the Executive Committee of ICC for last 15 years and acted as reviewer for Indian Journal of Cryogenics.

Bhunia Uttam

Name	Dr. Bhunia Uttam
Date of Birth	December 1973
LM No.	526
Date/Year of joining ICC	2006
Life Member / Fellow	Life Member
Affiliation	Variable Energy Cyclotron Centre, Kolkata
Position Held at the time of retirement	
Address Official	VECC, 1/AF, Salt Lake, Sector-3, Kolkata-700064
Expertise	Cryogenics, Superconductivity
Total Research Experience	
Address Residential	
Email ID	ubhunia@vecc.gov.in
E mail ID alternate	bhuniaut@gmail.com
Phone No.	7001731082
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics, Superconductivity

Highlight of the scientific achievements

Developments of Superconducting magnets for research and accelerator use, SMES system. SRF cavity for accelerator, Accelerator Physics and beam dynamics.

Chakrapani Ch.

Name	Ch. Chakrapani
Date of Birth	January1970
LM No.	LM-898
Date/Year of joining ICC	May 19,2022
Life Member / Fellow	LIFE MEMBER
Affiliation	SO-G, Positive Neutral Beam System, IPR
Position Held at the time of retirement	-
Address Official	Institute for Plasma Research, Bhat, Gandhinagr, 382428.
Expertise	Helium and Nitrogen Plants and distribution systems. Large scale cyopumps. Project management.
Total Research Experience	28+years
Address Residential	-
Email ID	cchakrap@ipr.res.in
E mail ID alternate	-
Phone No.	9574929822
Area you would be comfortable to review papers for Ind. J. Cryo	-

Highlight of the scientific achievements

1) 110 W @ 3.8 K Helium Plant
2) Large cryopumps (2m2) for hydrogen pumping
3) Test Blanket module design
4) ITER, France; Contributions to Helium (75kW) and Nitrogen Plants (1MW@80 K)
5) Testing and implementation of large (2m2) Cryo-sorption pumps

Chakravarty Anindya

Name	Dr. Chakravarty Anindya
Date of Birth	August 1972
LM No.	583
Date/Year of joining ICC	2008
Life Member / Fellow	Life Member
Affiliation	BARC, Trombay, Mumbai
Position Held	
Address Official	
Expertise	Cryogenics
Total Research Experience	
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Email ID	Guttu1972@gmail.com
E mail ID alternate	Anindya@barc.gov.in
Phone No.	9769542090
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics

Highlight of scientific achievements

BARC Helium Liquefier and Refrigerator Development; Ultra high speed cryogenic turboexpanders and gas lubricated bearings.

Chavda N. K.

Name	Dr. Chavda Neeraj K.
Date of Birth	August 1973
LM No.	634
Date/Year of joining ICC	2009
Life Member / Fellow	Life Member
Affiliation	The Charutar Vidya Mandal (CVM) University, V.V. Nagar, Anand, Gujarat
Position Held at the time of retirement	
Address Official	
Expertise	Cryogenics, Low Temperature Physics, Superconductivity
Total Research Experience	
Address Residential	B/2, Prashant Society, Near Water Tank, 100 Feet Road, Bhalej Road, Anand, Gujarat – 388001
Email ID	neeraj_chavda@yahoo.com
E mail ID alternate	neerajchavda@gmail.com
Phone No.	9427494599
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics, Low Temperature Physics, Superconductivity

Highlight of the scientific achievements

28 Years of Teaching Experience, 01 Year of Industrial Experience, 15 M Tech Students Guided, 06 Ph D. Guided, Research Projects: 30 Lakh (Completed) and 60 Lakh (Ongoing), Around 20 Papers Published in Journal.

Chopra V. K.

Name	Dr. Vinod K. Chopra
Date of Birth	November 1942
LM No.	LM-182 (Not Sure)
Date/Year of joining ICC	1975 Approx.
Life Member / Fellow	Life Member
Affiliation	GOODWILL Cryogenics Enterprises
Position Held at the time of retirement	N.A.
Address Official	213, Nirman Vyapar Kendra, Sector-17, Vashi, Navi Mumbai-400703
Expertise	Cryo-pump, Closed Cycle Refrigerators, LN2, LH2, LHe Dewar, Transfer Hoses, LHe Tr. Lines, MRI Tr. Lines.,
Total Research Experience	15-20 Yrs Approx.
Address Residential	N.A.
Email ID	gcecryo@gmail.com
E mail ID alternate	vinochop1@yahoo.com
Phone No.	+91 916-705-7628
Area you would be comfortable to review papers for Ind. J. Cryo	Regret

Highlight of the scientific achievements

ISRO-Ahmedabad Installed Cryogenic System for developing Remote Sensors first time (Approx. 1990s)
Semiconductor Laboratory Punjab upgrade Wafer System
ISRO upgrade to Cryopump Vacuum System for Test Chambers
Supermax Ltd. Upgrade vacuum system for Razor Productions
Installed First Time: Portable LN2 systems in India
First Indian to build an Ultra Low Temperature, 80 mK, Dilution Refrigerator in 1972 at Clarendon Laboratory, Oxford University

Choudhury B. K.

Name	Dr. Choudhury Balaji Kumar
Date of Birth	June 1979
LM No.	677
Date/Year of joining ICC	2010
Life Member / Fellow	Life Member
Affiliation	Parala Maharaja Engineering College Berhampur
Position Held at the time of retirement	
Address Official	
Expertise	Cryogenics
Total Research Experience	
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Phone No.	8763626758
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Design and Development of a turboexpander based nitrogen liquefier at NIT Rourkela. The turbo expander was running at a speed of 102000 rpm.

Cross Sapna A.

Name	Ms. Cross Sapna A.
Date of Birth	March 1982
LM No.	816
Date/Year of joining ICC	2017
Life Member / Fellow	816
Affiliation	ISRO
Position Held	
Address Official	
Expertise	Cryogenics
Total Research Experience	
Address Residential	Cross.sapna@gmail.com
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E mail ID alternate	Cross.sapna@iprc.gov.in
Phone No.	9487533043
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics

Highlight of the scientific achievements

Realization of Instrumentation and control system for Cryo Engine testing in HAT mode. Qualification of Sensors for Cryogenics Flight Engines and Stages.

Dasgupta J.

Name	Mr. Dasgupta Jyotisman
Date of Birth	September 1955
LM No.	865
Date/Year of joining ICC	2020
Life Member / Fellow	Life Member
Affiliation	Institution of Naval Architects, India
Position Held at the time of retirement	N.A.
Address Official	Institution of Naval Architects, India
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	jman.dg@gmail.com
E mail ID alternate	jd@agts-in.com
Phone No.	9820315392
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

(1) Technology development and Engineering solution to all floating LNG solutions including FSRUs, FSRPs, FLNGs, LNG Carriers and related technologies. (2) Member of GoI, Ministry of Ports, Shipping and Waterways Delegation to International Maritime Organization (IMO) an United Nations Organization for their Safety & Maritime Pollution Committees. (3) Member of the Project Approval Board of the Deep Ocean Mission, Department of Earth Sciences, GoI. (4) Head, Upstream Marine Group, L&T Hydrocarbon Engineering Limited, Mumbai, Larsen & Toubro and Chief Executive, L&T-VALDEL Engineering Limited, Bangalore. (5) Indian Register of Shipping, IRS: As Senior VP & Chief Surveyor looking after Engineering approval of new construction ships & surveys of existing merchant ships, naval auxiliary crafts. (6) India Correspondent & Member Design Philosophy Committee for International Ship & Offshore Structural Congress (ISSC) in 2006 & 2009. (7) Published technical papers on Ship & Offshore Design Philosophy at ISSC, Carbon Capture and Utilization of Engine Exhausts of Ships at IMO. Made presentations on Design, Manufacturing and Operation of LNG fuel vehicles.

Datta T. S.

Name	Dr. Datta Tripti Sekhar
Date of Birth	June 1959
LM No.	245
Date/Year of joining ICC	2004
Life Member / Fellow	Life Member
Affiliation	Retired from IUAC, New Delhi
Position Held	
Address Official	Retired from IUAC, New Delhi
Expertise	Cryogenics, Superconductivity
Total Research Experience	
Address Residential	Elita Garden Vista. Tower 14- 1502. New Town. Action area 3. Kolkata. West Bengal 700135
Email ID	tsdatta59@gmail.com
E mail ID alternate	tsdatta59@gmail.com
Phone No.	+91 9818947190
Area you would be comfortable to review papers for Ind. J. Cryogenics	Accelerator Cryogenics, Cryogenic Heat Transfer, LTS and HTS Superconducting Magnet, Bath-cooled and Cryogen-free magnet system, Superconductivity for Power Application.

Highlight of scientific achievements

His areas of expertise include helium gas purification, helium refrigeration and thermodynamic liquefaction cycles, cryogenics for accelerator systems, superconducting magnets, high-temperature superconductors for power applications, low-temperature heat transfer, and cryocooler-based liquefaction systems. His research began with fundamental R&D in cryogenics and applied superconductivity. He led the team that developed one of the largest cryogenic systems in India for the superconducting LINAC project at IUAC. He led many R&D projects on cryogenic systems and superconducting magnets funded by DST, BRNS, CPRI and MeitY. After his superannuation from IUAC, he joined IIT Kharagpur as a Visiting Professor. He has been actively associated with international forums that promote cryogenics and superconductivity in India and the broader Asian region. He has organized numerous national and international conferences and schools in these fields, the most notable being ICEC26-ICMC2016 held in New Delhi in 2016. He is the Chief Editor of the Indian Journal of Cryogenics and is an International Advisory Editor for the journal Cryogenics, an Elsevier journal.

Debashis Panda

Name	Dr. Debashis Panda
Date of Birth	July 1992
LM No.	872
Date/Year of joining ICC	March, 2021
Life Member / Fellow	Life Member
Affiliation	Florida State University, Tallahassee, Florida, USA
Position Held	Assistant in Research in Cryogenics and Superconducting linear accelerator
Address Official	Room Number: 105, Collins Research Building John D Fox Superconducting accelerator laboratory, Florida State University, Tallahassee, FL, US, 32306
Expertise	Cryogenics, Cryocoolers, Helium refrigeration and liquefaction system, Turboexpanders, Cryopumps, Cryogenic heat exchangers and transfer lines, CFD simulations
Total Research Experience	~ 11 Years
Address Residential	Apartment 214, 434 W Jefferson street, Tallahassee, Florida, 32301
Email ID	debashis1003@gmail.com
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Phone No.	+91 8984533079 and +1 448 867 0590
Area you would be comfortable to review papers for Ind. J. Cryo.	Cryogenics

Highlight of the scientific achievements

I am in charge of the cryogenic systems and superconducting linear accelerator modules at the John D. Fox Superconducting Accelerator Laboratory, Florida State University. I hold over two years of post-doctoral experience from the Centre for Cryogenic Technology at IISc Bangalore, India, where my work focused on the indigenous development of cryocoolers, helium compressors, cryocooler-based helium liquefiers, and the calibration of cryogenic temperature sensors. I earned both my master's and Ph.D. in cryogenics from the National Institute of Technology Rourkela, with research focused on cryocooler development. I have published more than 35 journal and conference papers in the field of cryogenics and have served as a reviewer for several prestigious scientific journals, including Cryogenics. I have reviewed over 120 articles from different international journals. I have received postdoctoral and research fellowship offers in cryogenics from leading institutions in India, Israel, and the UK. An outcome of my research work at IISc Bangalore, involving the indigenous development of a cryocooler-based helium liquefier, received the Best Paper Award at the 29th National Conference on Cryogenics and Superconductivity at IUAC in November 2024. I am a life member of the Indian Cryogenics Council.

INDIAN CRYOGENICS COUNCIL
(1975-2025)
GOLDEN JUBILEE CONFERENCE
13-14th NOVEMBER, 2025

CONFERENCE THEME

- Advances in cryogenic engineering
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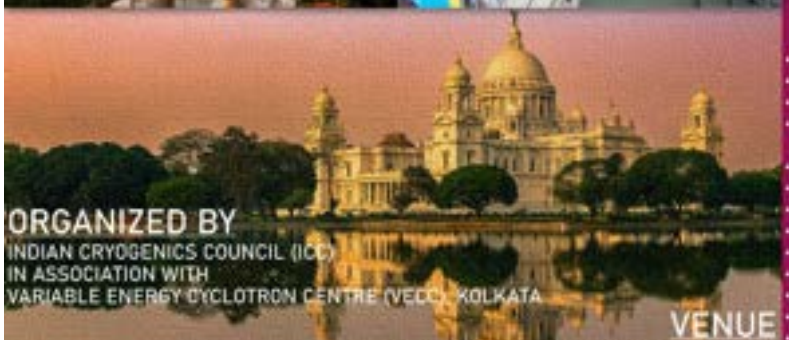
- Industrial cryogenics, LNG technology
- Space cryogenics & future programmes
- Conduction cooled systems and dilution refrigerators



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Contact: Convener, ICC-Golden Jubilee Conference,
convener_iccg@vecc.gov.in

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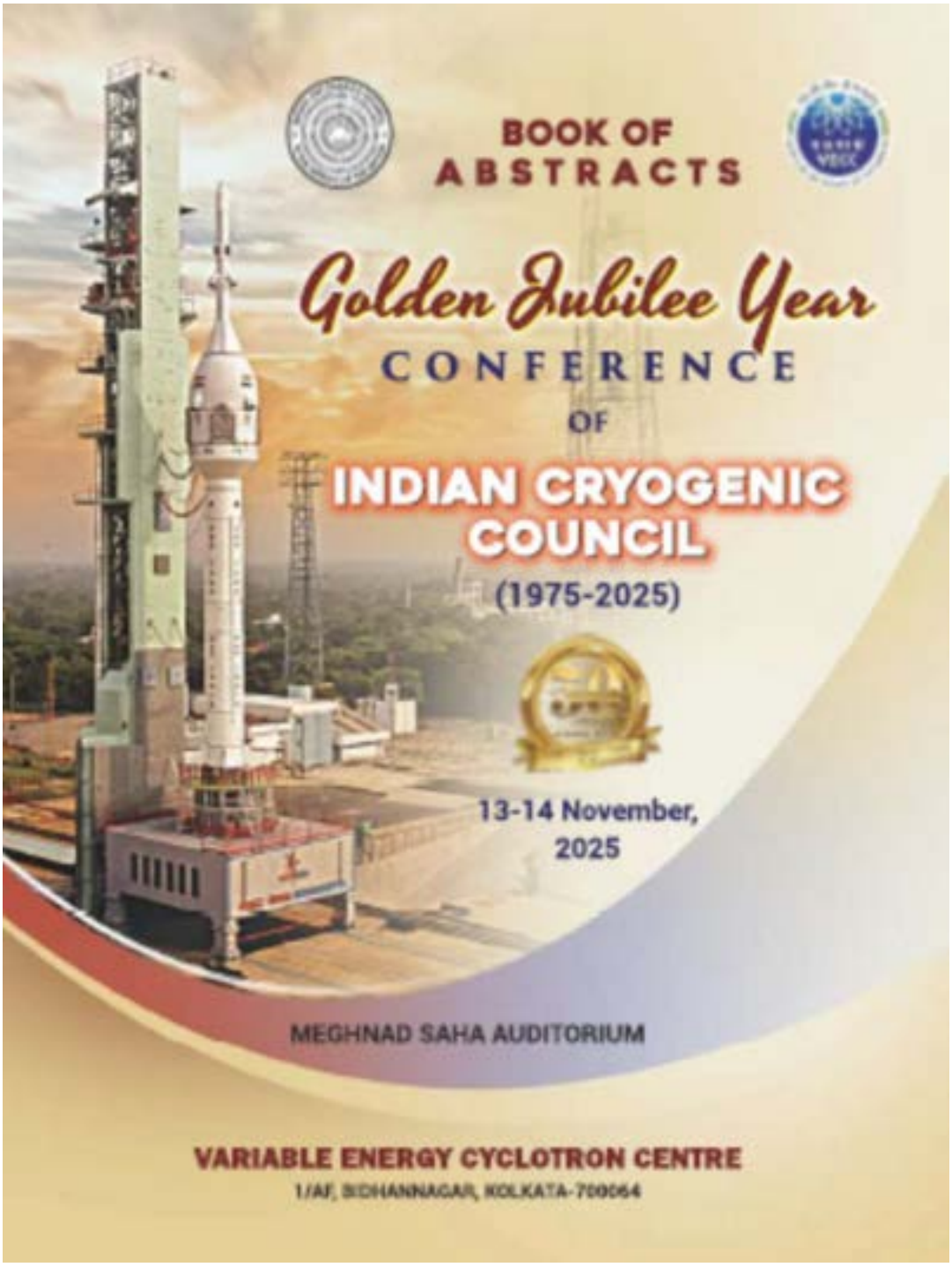
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2025
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Dey T. K.

Name	Prof. Tapas Kumar Dey
Date of Birth	November 1949
LM No.	056
Date/Year of joining ICC	
Life Member / Fellow	Life Member
Affiliation	Former Professor of: Cryogenic Engg, Centre, IIT Kharagpur, Kharagpur 721302 (WB)
Position Held at the time of retirement	Professor (Higher Academic Grade), IIT Kharagpur.
Address Official	No official address Presently
Expertise	Superconducting Materials & Devices, Thermal Properties of Nanofluids. Vacuum Technology.
Total Research Experience	45 years
Address Residential	Clubtown Gardens, Block 9 / 5D, 12 MM Feeder Road, Ariadaha, Kolkata 700057 (WB)
Email ID	tapasiitkgp@gmail.com
E mail ID alternate	none
Phone No.	9434368959
Area you would be comfortable to review papers for Ind. J. Cryogenics	Yes, preferably on: Superconducting Materials & Devices, Thermal Properties of Nanofluids. Vacuum Technology.

Highlight of the scientific achievements

Involved actively since 1977 at IIT Kharagpur with researches in various aspects of superconducting materials and Nanofluids. Invited to join as member of 9th & 10th International Advisory Committee of Asian Thermophysical Properties Conference (ATPC2013) held in Korea and Beijing (China). During this period worked as reviewer of several national & international journals, viz, *Jour of Superconductivity and Novel Magnetism, Cryogenics, Applied Thermal Engineering, Exptl Thermal & Fluid Science, Jour. of Alloys & Compounds, Journal of Nanofluids, Solid state Communications, Indian Journal of Cryogenics, Cryogenics (UK)* etc. Successfully completed three Consultancy projects sponsored by Indian Space Research Organization (ISRO), LPSC Trivandrum. Several (10 nos.) sponsored projects offered by DST & CSIR on various areas of materials (superconductors, composites & nanofluids) were also successfully completed. During my stay at IIT Kharagpur several research facilities were developed under my guidance viz., Thermal, Electrical Transport measurements, thermo-electric power and Coefficient of thermal expansion at cryogenic temperatures. Thermal conductivity and Viscosity of nanofluids, Critical Heat Flux & Boiling Heat Transfer of nanofluids and test facility for nanofluids based Heat Pipes were also developed. Successfully developed a Vibrating Sample Magnetometer (VSM) and used it for Magnetocaloric measurements. Developed facility for AC loss measurements and Magnetic Levitation studies on various high temperature superconductors (viz, MgB_2, BISCO etc.). Also, developed audio visual lecture notes on *Introduction to Cryogenics*, *Superconducting Materials & Devices* and *Vacuum Technology* for M. Tech students of Cryogenic Engg. IIT Kharagpur.

Dhokey N.B.

Name	Prof. Dhokey Narendra Baburao
Date of Birth	May 1969
LM No.	922
Date/Year of joining ICC	2023
Life Member / Fellow	Life Member
Affiliation	COEP, Technological University, Pune
Position Held at the time of retirement	N.A.
Address Official	Department of Metallurgy and Materials, Engineering, COEP Technological University, Shivajinagar, Pune -411005
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	nbdhokey@yahoo.co.in
E mail ID alternate	nbd.meta@coeptech.ac.in
Phone No.	9422057442
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

I worked on metallurgical transformation in Metal and Alloys and its impact on mechanical properties and Tribological Behaviour.

Dogra Anjana

Name	Dr. Anjana Dogra
Date of Birth	April 1975
LM No.	
Date/Year of joining ICC	
Life Member / Fellow	Life Member
Affiliation	Senior Principal Scientist
Position Held at the time of retirement	Not Applicable
Address Official	National Physical Laboratory, Dr. K S Krishana Marg
Expertise	Low temperature physics & magnetic material, oxide hetero-structures, PLD
Total Research Experience	19 Years
Address Residential	B1/926, Tower-17, Purwanchal Silver City, Noida, Sector-93
Email ID	anjana.dogra@gmail.com
E mail ID alternate	anjana.nplindia@csir.res.in
Phone No.	9650599778
Area you would be comfortable to review papers for Ind. J. Cryo	Low temperature physics & magnetic material, oxide hetero-structures, PLD

Highlight of the scientific achievements

- More than 70 publications in SCI journals.
- More than 30 invited talks in National & International conference etc
- Project Investigator of International projects: CEFIPRA and Co-PI of many other national projects.
- Active member of QHR activity of NPL, India
- Guided Ph.D students (5 completed, 3 ongoing) and several M.Tech students.
- Member of socities like Metrology Society of Inda, Magnetic society of India, Neutron scattering society of India, OWSD etc

Dondapati R. S.

Name	Prof. Dondapati Raja Sekhar
Date of Birth	May 1978
LM No.	645
Date/Year of joining ICC	2009
Life Member / Fellow	Life Member
Affiliation	Professor, School of Mechanical Engineering, Lovely Professional University, Phagwara, Punjab-144411
Position Held at the time of retirement	
Address Official	Lovely Professional University, Phagwara (Pb)
Expertise	Cryogenics, Superconductivity
Total Research Experience	
Address Residential	
Email ID	rajasekhar.iitkgp@gmail.com
E mail ID alternate	drsekhar@ieee.org
Phone No.	8427474117
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics, Superconductivity

Highlight of the scientific achievements

Working as Professor in the School of Mechanical Engineering at Lovely Professional University. Completed the Sponsored Project funded by CPRI, Banglore on the development of SMES devices.

Doohan R. S.

Name	Dr. Doohan Rajvir Singh
Date of Birth	October 1973
LM No.	685
Date/Year of joining ICC	
Life Member / Fellow	Life Member
Affiliation	Raja Ramanna Centre for Advance Technology, INDORE
Position Held at the time of retirement	
Address Official	Cryogenics, RRCAT, Indore, (MP) – 452013
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	doohan@rrcat.gov.in
E mail ID alternate	R.S.Doohan@gmail.com
Phone No.	9926700425
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

1. Developed first indigenously developed helium liquefier.
2. Transferred the technology of Single Stage 30 K Class Cryocooler with Helium Compressor to Indian industries.
3. Developed and deployed an indigenously developed plate-fin heat exchangers for helium liquefier.
4. Developed an indigenous 4K-class cryocooler for cryogen-free applications.
5. Developed a 2K cryostat for the calibration of a Zirconium Nitride sensor below 4K.
6. Developed long-range liquid helium transfer lines for the supercritical state.
7. Developed cryogenic valves for precise flow control applications.

Dutta Debashish

Name	Mr. Debashish Dutta
Date of Birth	May 1967
LM No.	703
Date/Year of joining ICC	2011
Life Member / Fellow	Life Member
Affiliation	BARC, Department of Atomic Energy, Mumbai-85
Position Held at the time of retirement	
Address Official	VDG, Ground Floor, IADD, MRG, BARC, Trombay, Mumbai – 400085
Expertise	Cryogenics
Total Research Experience	~ 27 years
Address Residential	D8, Ajanta, Anushaktinagar, Mumbai – 400094
Email ID	dutta.debashish534@gmail.com
E mail ID alternate	debash@barc.gov.in
Phone No.	9867193732, 2225593463 (official at Trombay)
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics

Highlight of the scientific achievements

Work in progress in different areas of cryogenic engineering, subject to fund availability.

Duttagupta Biswanath

Name	Mr. Duttagupta Biswanath
Date of Birth	April 1958
LM No.	802
Date/Year of joining ICC	2017
Life Member / Fellow	Life Member
Affiliation	RRCAT-INDORE
Position Held	
Address Official	
Expertise	Cryogenics
Total Research Experience	
Address Residential	rh 38 A, Treasure Fantasy Colony, Rangwasa, Indore (Madhya Pradesh), PIN - 453331
Email ID	onlyduttagupta@rediffmail.com
E mail ID alternate	duttaguptabisnath@gmail.com
Phone No.	9644113290 / 9617922584
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics

Highlight of the scientific achievements

Design, fabrication and commissioning of cryostats as per user specification, supervision of VTS Experiment to provide Cryogenic Support to test and characterise SCRF Cavities for High Energy Accelerators, delivering Lecture Course on Cryogenic Technology to TSO s of BARC Training School and Stipendiary Trainee at RRCAT.

Gautam Pal

Name	Mr. Gautam Pal
Date of Birth	December 1960
LM No.	612
Date/Year of joining ICC	
Life Member / Fellow	Life Member
Affiliation	Variable Energy Cyclotron Centre, Kolkata
Position Held at the time of retirement	
Address Official	
Expertise	
Total Research Experience	
Address Residential	60/2E Narendra Nagar, Kolkata – 700056
Email ID	gpal_ind@yahoo.com
E mail ID alternate	gautampal.in@gmail.com
Phone No.	9836172319
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Design of superconducting magnet and its cooling system.

Gera Subhash Chander

Name	Mr. Gera Subhash Chander
Date of Birth	May, 1947
LM No.	LM 248
Date/Year of joining ICC	1975
Life Member / Fellow	Life Member
Affiliation	Ex, CSIR- National Physical Laboratory, New Delhi – 110012
Position Held at the time of retirement	Chief Scientist
Address Official	Nil (Retired from NPL in 2007)
Expertise	Cryogenics
Total Research Experience	~ 35 years
Address Residential	EA-281, SFS(DDA) Flats, Maya Enclave, New Delhi – 110064
Email ID	subhashgera148@gmail.com
E mail ID alternate	
Phone No.	9999243050
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics

Highlight of the scientific achievements

My experience in the Cryogenics field at NPL has been more 35 years. I have contributed significantly in the development of Stirling cycle based Liquid Nitrogen Plant (single cylinder). Other notable contribution has been in the study and development of Stirling Engine.

Ghosh Parthasarathi

Name	Dr. Parthasarathi Ghosh
Date of Birth	December 1970
LM No.	517
Date/Year of joining ICC	2006
Life Member / Fellow	Life Member
Affiliation	IIT Kharagpur
Position Held at the time of retirement	Currently employed
Address Official	Cryogenic Engineering Centre, IIT Kharagpur, Kharagpur, West Bengal, Pin 721302
Expertise	Modelling and simulation of Large and medium-scale Helium, Hydrogen and other cryogenic refrigeration and liquefaction systems, Cryogenic rotating turboexpander, pump, and other rotating equipment, Storage and transfer of Liquid hydrogen, oxygen, nitrogen, LNG and other cryogenic fluids, space, aerospace, road and marine transportation of cryogenic fluids, Two-phase flow in cryogenic systems
Total Research Experience	~ 30 years
Address Residential	Qtr. No. A166, IIT Kharagpur, Kharagpur, West Bengal, Pin 721302
Email ID	psghosh@cryo.iitkgp.ac.in
E mail ID alternate	s.partha.ghosh@gmail .com
Phone No.	+91 3222 283594 ;+91 9932584162 (M)
Area you would be comfortable to review papers for Ind. J. Cryogenics	Yes

Highlight of the scientific achievements

Development of high-speed Cryogenic Turboexpander (PhD) work; Contribution in development of Helium reciprocating expander and Country's first indigenously developed helium liquefier at RRCAT, expert member of different design review committees for cryolines and cryo-distribution systems of ITER, Expert member of different National and International committees for Cryogenics, one of the editors of Cryogenics journal, Contribution to Space research through number of ISRO projects, Ex head of Cryogenic Engineering Centre, recipients of the Van Duzer Prize from the IEEE Council on Superconductivity , and the Milton Van Dyke Award from the Gallery of Fluid Motion, 74th APS Division of Fluid Dynamics Meeting (1st and only group from India), Indigenous development of PSA based Medical oxygen generator, joint authorship of over 130 publications in international and national journals and conference proceedings. Supervision of 8 doctoral students and currently ongoing 5 PhD scholars including two scientists from IPR Gandhinagar, International collaboration with ESS, University of Zurich, KIT, Uo Melbourne etc.

Ghosh S. K.

Name	Prof. Ghosh Subrata Kumar
Date of Birth	May 1977
LM No.	709
Date/Year of joining ICC	2012
Life Member / Fellow	Life Member
Affiliation	IIT ISM Dhanbad
Position Held at the time of retirement	Professor
Address Official	Department of Mechanical Engineering, Dhanbad
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	subrata@iitism.ac.in
E mail ID alternate	Subratarec@yahoo.co.in
Phone No.	9430187029
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Development of cryogenic turboexpander.

Gour Abhay Singh

Name	Dr. Abhay Singh Gour
Date of Birth	July 1983
LM No.	LM-808
Date/Year of joining ICC	February, 2017
Life Member / Fellow	Life Member, EC Member (ICC-EZ)
Affiliation	Cryogenic Engineering Centre, IIT Kharagpur
Position Held	Assistant Professor
Address Official	Cryogenic Engineering Centre, IIT Kharagpur, Kharagpur, West Bengal-721302, India
Expertise	Applied Superconductivity, Cold Electronics, Cryogenic Process Control, Cryocooler and Vacuum Technology
Total Research Experience	20 Years
Address Residential	-
Email ID	abhay.s.gour@gmail.com
E mail ID alternate	Abhay.cryolab@gmail.com
Phone No.	+91-9008200553
Area you would be comfortable to review papers for Ind. J. Cryo	Sensors, Cryocooler, Vacuum, applied Superconductivity

Highlight of the scientific achievements

I have been working as an assistant professor at the Cryogenic Engineering Centre, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, India. Received the BE degree in Electrical and Electronics Engineering from the Mahakal Institute of Technology, Ujjain, in 2005; M.Tech. degree in Process Control and Instrumentation from the National Institute of Technology, Tiruchirappalli, in 2008; and the PhD degree in Instrumentation and Applied Physics from the Indian Institute of Science, Bengaluru, in 2016. He worked in industry after his BE degree, with Ranbaxy (one year), and after his MTech degree, with ABB (one year), and as a Postdoctoral Fellow with IIT Kharagpur (one year). He has developed twin pulse tube coolers and HTS level sensors during his PhD. He currently works as an assistant professor at Cryogenic Engineering Centre, Indian Institute of Technology, Kharagpur, India. His research interests include high-temperature superconductor power cable, SFCL, HTS motor and SMES or power systems, cryogenic engineering, vacuum technology, cold electronics, instrumentation for space and ground applications, and fuzzy control for process systems.

Goyal Mukesh

Name	Dr. Goyal Mukesh
Date of Birth	May 1977
LM No.	584
Date/Year of joining ICC	
Life Member / Fellow	Life Member
Affiliation	BARC, Mumbai – 400085
Position Held at the time of retirement	
Address Official	Room No. 157, Common Facility Building, Cryo-Technology Division, BARC, Mumbai-400085
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	mukesh42@yahoo.com
E mail ID alternate	mukeshgoyal42@gmail.com
Phone No.	7977294639
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Development of helium refrigeration/ Liquefaction systems and critical cryogenic components.

Gujarati P. B.

Name	Dr. Gujarati Paresh Babubhai
Date of Birth	August 1984
LM No.	776
Date/Year of joining ICC	2014
Life Member / Fellow	Life Member
Affiliation	Uka Tarasadia University
Position Held at the time of retirement	
Address Official	
Expertise	Cryogenics
Total Research Experience	
Address Residential	C-604, aavkar Residency, Nr. D Mart, Mota Varachha Surat – 394101
Email ID	paresh.gujrati@gmail.com
E mail ID alternate	paresh.gujrarti@gmail.com
Phone No.	9924525939
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

As a cryogenics specialization, I have developed an experimental setup on Two Stage GM Type Pulse Tube Cryocooler for 20 K applications. The work was sponsored by DST-India. This research work was carried out as a doctorate work for my PhD degree.

Gupta Anurag

Name	Dr. Gupta Anurag
Date of Birth	September 1961
LM No.	539
Date/Year of joining ICC	
Life Member / Fellow	Life Member
Affiliation	Retired from: National Physical Laboratory, New Delhi-110012
Position Held at the time of retirement	Ex – Chief Scientist Former – Head, Div. Indian Standard Time
Address Official	N.A.
Expertise	Low temperature Experimental Physics, Electrical and magnetic properties of type II superconductors
Total Research Experience	30 years
Address Residential	H.No. 5, Teachers' Flats, K.M. College, Delhi-110007
Email ID	anurag4067@gmail.com
E mail ID alternate	-
Phone No.	9818030048
Area you would be comfortable to review papers for Ind. J. Cryo	Electrical and magnetic properties of type II superconductors

Highlight of the scientific achievements

In my academic journey published nearly 150 SCI-papers and 7 book chapters, established Low Temperature/High Magnetic Field Infrastructure at CSIR-NPL, taught "Basic Superconductivity" at AcSIR-NPL for ~ 10 years, and mentored more than 18 Scientists, besides many PhD students and Post Doc fellows at CSIR-NPL.

Gupta A. K.

Name	Dr. Ashok Kumar Gupta
Date of Birth	January 1944
LM No.	249
Date/Year of joining ICC	1975
Life Member / Fellow	Foundation Fellow since 1975
Affiliation	EX- National Physical Laboratory (NPL) New Delhi -110012
Position Held at the time of retirement	Scientist 'G' & Head, Electrical and Electronic Standards Division, Head, Josephson Voltage Standard & Superconducting Devices Section
Address Official	Nil (Retired from NPL in December 2003)
Expertise	Josephson Effect and its Applications,
Total Research Experience	~ 57 Years
Address Residential	A3, Millennium Apartments, E-10A, Sector 61, NOIDA-201307, U. P.
Email ID	dak_gupta@yahoo.co.in
E mail ID alternate	NIL
Phone No.	+91 9818321414
Area you would be comfortable to review papers for Ind. J. Cryo.	Josephson Effect and its Applications

Highlight of the scientific achievements

Started working in the area of superconductivity in 1968 at the Case Western Reserve University, USA as a PhD student and later as a Research Associate. At NPL I worked as Head of Josephson Voltage Standard and Superconducting Devices Section since 1977 till my retirement in 2003. I have contributed in the establishment of Josephson Voltage Standard, first at 1 mV level in 1985 and later at 1 Volt level in 1998. Both of these were used to calibrate National standard of Volt maintained at NPL. I was one of the first to experimentally show that grain boundaries in high T_c cuprate superconductors work as Josephson weak links by observing inverse ac Josephson effect. Later we also observed dc and ac Josephson effects. I developed rf SQUIDS using the grain boundary weak links which could be operated at 77K. For this work I was awarded A. N. Chatterjee Memorial Medal and Merit Scroll of ICC in 1990 and MRSI Award in 1993. I guided 9 students for PhD degree. I was selected as the "Foundation Fellow" and Executive Committee Member in 1975, the year ICC was born and was involved in ICC activities like EC member, Editorial Board member of Indian J. of Cryogenics, President, Secretary, Treasurer of ICC (NZ) etc. till 2006.

Gupta Gaurav

Name	Gaurav Gupta
Date of Birth	July 1985
LM No.	
Date/Year of joining ICC	2025
Life Member / Fellow	Life Member
Affiliation	Senior Technical Officer – 2
Position Held at the time of retirement	NA
Address Official	Room No: 127, Metrology Building, CSIR- National Physical Laboratory, Dr. K. S. Krishnan Marg, New Delhi – 110012
Expertise	Temperature, Humidity and Moisture Metrology, Low Temperature Measurements
Total Research Experience	15 Years
Address Residential	G9, NPL Colony, New Rajinder Nagar, New Delhi - 60
Email ID	guptag2.nplindia@csir.res.in
E mail ID alternate	gaurav.amer@gmail.com
Phone No.	8447433431
Area you would be comfortable to review papers for Ind. J. Cryo	Temperature, Humidity & Moisture Measurements and R&D

Highlight of the scientific achievements

Humidity Metrology

The role involves establishing, maintaining, and upgrading the National Standards for Hygrometry at CSIR–NPL, including precise measurement of relative humidity (10–95% RH), air temperature (–10 °C to +70 °C), and dew/frost point temperature (–30 °C to +60 °C). The incumbent is responsible for ensuring measurement traceability through CSIR–NPL's primary temperature and pressure standards while operating the National Hygrometry Laboratory as the country's apex facility. The position requires providing calibration services for high-precision thermo-hygrometers and dew point meters to R&D laboratories, NABL-accredited labs, industries, and SAARC-region users. This work supports critical sectors such as pharmaceuticals, food storage, climate science, and industrial quality control, thereby ensuring reliability, comparability, and international acceptance of measurements, and strengthening India's role in global metrology.

Moisture Metrology

A state-of-the-art facility for moisture measurement in solid and liquid samples has been established at CSIR–NPL, employing the Loss-on-Drying (LoD) and Karl Fischer (KF) titration methods. The LoD method has been traceable to NPL's mass metrology and ITS-90 temperature calibration, while KF has been standardised with NIST-traceable reagents...

Gurjar Ganesh

Name	Dr. Ganesh Gurjar
Date of Birth	September 1991
LM No.	LM-967
Date/Year of joining ICC	26 January, 2025
Life Member / Fellow	Life Member
Affiliation	Ramjas College, University of Delhi
Position Held at the time of retirement	Not applicable
Address Official	Department of Physics, Ramjas College, D.U.
Expertise	Deposition of Metal and Oxide Thin films via PLD, Ferromagnetic Resonance, ISHE, Four-probe resistivity and magnetotransport using Cryogen-Free Magnet (CFM) system.
Total Research Experience	03 Years
Address Residential	A-2, Sector-50, Noida, Uttar Pradesh-201301
Email ID	ganeshgurjar4991@gmail.com
E mail ID alternate	ganeshgurjar@ramjas.du.ac.in
Phone No.	9250171184
Area you would be comfortable to review papers for Ind. J. Cryo	Thin film, FMR, Magnetization Dynamics

Highlight of the scientific achievements

I completed my Ph.D. from JNU, New Delhi in 2022, where I worked on spin dynamics in YIG thin films, mainly studying the inverse spin Hall effect and spin Seebeck effect. I have hands-on experience with XRD, VSM, resistivity and magnetotransport measurements using a Cryogen-Free Magnet system, thin-film growth by PLD, and FMR measurements using a Keysight VNA. My research involved understanding spin pumping and spin transport in oxide/metal structures. I now plan to move towards computational spintronics and magnetization dynamics using OOMMF with Python, with the aim of developing energy-efficient spintronic devices and guiding students in this field.

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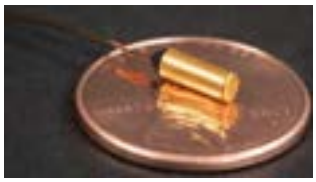
Zirnox is a thin-film resistive temperature sensor(0.02K-450K) with minimal calibration shifts in magnetic and radiation environments. Made of zirconium oxynitride.

Si-540 Silicon Diode

The Si-540 Silicon Diode Temperature Sensor
(1.5K-450K) is miniature, highly sensitive, and interchangeable to a standard V/T curve
It features a gold-plated OFHC copper canister(02.4mm x 5.1mm)

Ruthenium Oxide

RO-215 Ruthenium Oxide sensors are thick-film resistors with a stable resistance-temperature curve, ideal for magnetic field environments. They offer high calibration accuracy (±30mK @ 4.2K) repeatability (±20mK @ 4.2K), and various mounting options, covering a range of 2.OK to 100K.



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Hafiz K. R.

Name	Mr. Hafiz, K. R.
Date of Birth	May 1980
LM No.	853
Date/Year of joining ICC	2020
Life Member / Fellow	Life Member
Affiliation	VSSC, ISRO, Trivandrum, Kerala
Position Held at the time of retirement	
Address Official	VSSC, ISRO, Trivandrum, Kerala
Expertise	Cryogenics
Total Research Experience	
Address Residential	Khairaath, PHC Road, Chittattumukku PO, Trivandrum, Kerala – 695301
Email ID	hafizkassimr@gmail.com
E mail ID alternate	kr_hafiz@vssc.gov.in
Phone No.	9447975595
Area you would be comfortable to review papers for Ind. J. Cryo.	Cryogenics

Highlight of the scientific achievements

Scientist/Engineer-SF, Quality Division Vehicle Systems Environmental Test Facilities (QDVF), QRMIG Systems Reliability Entity, Vikram Sarabhai Space Centre (VSSC), ISRO, Trivandrum.

Functionally serving as Engineer-In-Charge for two major QDVF sections: (1) High Pressure Pneumatic Test Facilities the largest in VSSC; (2) Advanced Thermovacuum Test Facilities the largest Thermovacuum facility at VSSC. Over 20 years specialized experience in thermovacuum, thermal testing, high-pressure pneumatic testing, and helium leak testing for launch vehicle and satellite subsystems. Expertise includes thermovacuum chamber design, management of large liquid nitrogen storage systems (1.5 lakh litre capacity), super-insulated vacuum jacketed lines, and cryogenic thermal conditioning units. Authored 8 technical papers in reputable national and international conferences, showcasing advancements in environmental testing and system reliability for space missions. Recipient of multiple honours including the ISRO Team Excellence Award, Space Qualified Processes Award, and two Best Paper Presentation Awards at National Conferences. Life member of distinguished professional organizations: Aeronautical Society of India (AeSI), Indian Society for Non-Destructive Testing (ISNT), Indian Vacuum Society (IVS), and Institution of Engineers India (IEI).

Hari Kishan

Name	Dr. Hari Kishan
Date of Birth	December 1949
LM No.	257
Date/Year of joining ICC	1975
Life Member / Fellow	Life Member
Affiliation	Ex- National Physical Laboratory (NPL) New Delhi - 110012
Position Held	Scientist G & Head Division of Superconductivity and Cryogenics
Address Official	Nil (Retired from NPL in 2011)
Expertise	Low Temperature Physics, Cryogenics, Superconductivity and Humidity
Total Research Experience	~ 55 Years
Address Residential	27, Rama Krishna Apartments, Sector-9, Rohini, Delhi - 110085
Email ID	nplhkishan@gmail.com
E mail ID alternate	
Phone No.	+91 9891556654 +91 9968521844
Area you would be comfortable to review papers for Ind. J. Cryogenics	Low Temperature Physics, Cryogenics and Superconductivity

Highlight of the scientific achievements

I have rich experience in Cryogenics, Low Temperature Physics and Superconductivity by heading the "Division of Superconductivity and Cryogenics" at National Physical laboratory, New Delhi from 2001 to 2011. In addition, I also looked after the Division of Temperature and Humidity Standards for few years; and established Humidity Standards at NPL. I have significantly contributed in the development of glass receptacles for the long-term preservation of the original manuscript of the Constitution of India (an important National Project). Presently I am one of the EC Member of the ICC-North Zone.

Jacob Chacko

Name	Mr. Jacob Chacko
Date of Birth	November 1956
LM No.	252
Date/Year of joining ICC	2004
Life Member / Fellow	Life Member
Affiliation	Retired from IUAC, New Delhi
Position Held at the time of retirement	
Address Official	N.A.
Expertise	Cryogenics, Superconductivity
Total Research Experience	
Address Residential	Koonamplackel House, Kadapra PO, Kumbanand, Kerala – 689547
Email ID	jacob.nsc@gmail.com
E mail ID alternate	jacob.nsc@gmail.com
Phone No.	9871349106
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics, Superconductivity

Highlight of the scientific achievements

Worked with Inter University accelerator centre till 2016. Design and development of Linac cryostats. Was a group member of the 1.5 tesla MRI magnet team.

Jadkar N.C.

Name	Mr. Jadkar Ninad Chandrakant
Date of Birth	March1998
LM No.	881
Date/Year of joining ICC	2021
Life Member / Fellow	Life Member
Affiliation	Indian Institute of Technology, Kharagpur
Position Held at the time of retirement	
Address Official	IIT, Kharagpur (West Bengal)
Expertise	Superconductivity
Total Research Experience	
Address Residential	
Email ID	ninad.jadkar@gmail.com
E mail ID alternate	Ninad.jadkar.24@kgpian.iitkgp.ac.in
Phone No.	9423557157
Area you would be comfortable to review papers for Ind. J. Cryo	Superconductivity

Highlight of the scientific achievements

Superconducting Flux based thin film devices" is the topic I work on as a Doctoral student under the supervision of Prof. Dr. Venimadhav Adyam at Cryogenic Engineering Centre, IIT Kharagpur. As a budding researcher, I have not achieved any scientific milestones "yet" (dated September 16, 2025). I'm happy that my lab provides me the research space to achieve things and I hope I'll be able to edit this "achievement section" soon!

Jagdish Kumar

Name	Dr. Jagdish Kumar
Date of Birth	August 1984
LM No.	LM 959
Date/Year of joining ICC	27-Dec-2024
Life Member / Fellow	Life Member
Affiliation	Department of Computational Sciences, Central University of Punjab, Bathinda-151401, Punjab
Positions held	Associate Professor & HoD, Department of Computational Sciences, Central University of Punjab
Address Official	C-12, Porta Cabin, Central University of Punjab, VPO Ghudda, District Bathinda, Punjab, 151401
Expertise	Condensed Matter Physics
Total Research Experience	13 Years
Address Residential	Vaishnavi Villa, Naruana, Badal Road, Bathinda, Punjab
Email ID	jagdish.kumar@cup.edu.in
E mail ID alternate	jagdishphysicist@gmail.com
Phone No.	+91-8627871474
Area you would be comfortable to review papers for Ind. J. Cryo	Superconductivity, Electronic structure calculations

Highlight of the scientific achievements

- Ph.D. in experimental and ab-initio studies on exotic superconductors
- Experience in performing and analyzing experimental characterization of materials
- Ab-initio computational modelling of materials properties
- Current research interests: superconductivity in hydrides, energy harvesting materials, photocatalytic water splitting, quaternary Heusler's alloys
- Guided three Ph.D. students

Jain Ankit

Name	Mr. Jain Ankit
Date of Birth	June 1991
LM No.	822
Date/Year of joining ICC	2018
Life Member / Fellow	Life Member
Affiliation	Bhabha Atomic Research Centre, Trombay, Mumbai
Position Held at the time of retirement	
Address Official	272C, CFB, CrTD, BARC, Trombay, Mumbai-400085
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	ankitj@barc.gov.in
E mail ID alternate	296ankit@gmail.com
Phone No.	9757026749
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Involvement in development of indigenous helium liquefiers and refrigerators. Studies on gas bearings for cryogenic turboexpanders.

Joji Kurian

Name	Joji Kurian
Date of Birth	June 1979
LM No.	948
Date/Year of joining ICC	2024
Life Member / Fellow	Life Member
Affiliation	Nirmalagiri College
Position Held at the time of retirement	Currently Assistant Professor
Address Official	Department of Physics, Nirmalagiri College, Nirmalagiri P. O., Kannur, Kerala - 670701
Expertise	Low Temperature Physics, Electrical, Magnetic and Optical properties of oxide materials
Total Research Experience	15 Years
Address Residential	Kureekkattil, Chandanakkampara P O, Kannur, Kerala - 670633
Email ID	jojikuriank@gmail.com
E mail ID alternate	jojikuriank@yahoo.com
Phone No.	+919495744218 +919074596066
Area you would be comfortable to review papers for Ind. J. Cryo	Low Temperature Physics, Electrical, Magnetic and Optical properties of oxide materials

Highlight of the scientific achievements

I have been working on the electrical, magnetic and optical properties of oxide materials as well as on diamonds and other carbon based materials in its bulk, nanoparticle and thin film forms.

Joshi A. G.

Name	Dr. Amish G. Joshi
Date of Birth	November 1972
LM No.	896
Date/Year of joining ICC	2022
Life Member / Fellow	896
Affiliation	CSIR-Central Glass & Ceramic Research Institute, Naroda Centre
Position Held	
Address Official	
Expertise	Low Temperature Physics; Superconductivity
Total Research Experience	
Address Residential	CSIR-Central Glass & Ceramic Research Institute, 168-169, Naroda Industrial Estate, Ahmedabad - 382 330
Email ID	amish.cgcri@csir.res.in
E mail ID alternate	amish.npl2007@gmail.com
Phone No.	9810604580
Area you would be comfortable to review papers for Ind. J. Cryogenics	Low Temperature Physics; Superconductivity

Highlight of the scientific achievements

Conducted in-depth research on 123-type high-Tc superconducting materials by examining various crystallographic sites, with a focus on tracking changes in oxygen vacancies as a function of dopant concentration using Neutron Diffraction techniques. I was also the first to publish a research paper on the MgB2,, superconductor from India, based at TIFR (Tata Institute of Fundamental Research). Additionally, carried out extensive investigations into the valence states of perovskite materials utilizing X-ray Photoelectron Spectroscopy (XPS) and Ultraviolet Photoelectron Spectroscopy (UPS) at CSIR-NPL, New Delhi.

Joshi S. S.

Name	Mr. Joshi Shrirang Suresh
Date of Birth	January 1987
LM No.	916
Date/Year of joining ICC	2023
Life Member / Fellow	Life Member
Affiliation	Indian Oil Corporation Limited
Position Held at the time of retirement	
Address Official	
Expertise	Cryogenics
Total Research Experience	
Address Residential	B-1202, Malpani Saffron, Pathardi Phata, Nashik, Maharashtra –422010
Email ID	Shrirangcoep@gmail.com
E mail ID alternate	Joshiss2@indianoil.com
Phone No.	9909615679
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

1) Contributing in advanced production techniques and time/ cost optimization methods related to manufacturing and performance of MLSI and Perlite filled vacuum containers.
2) Contributing in development of indigenous manufacturing of LNG fuel tanks.

Kanjilal D.

Name	Dr. Kanjilal Dinakar
Date of Birth	February 1955
LM No.	513
Date/Year of joining ICC	
Life Member / Fellow	Life Member
Affiliation	Retired from IUAC, New Delhi
Position Held at the time of retirement	Director
Address Official	N.A.
Expertise	Low Temperature Physics, Superconductivity
Total Research Experience	
Address Residential	B-225, Prodhyogiki Apartment, Plot 11, Sector-3, Dwarka, New Delhi – 110078
Email ID	dkiuac@gmail.com
E mail ID alternate	dkiuac@gmail.com
Phone No.	9868716629
Area you would be comfortable to review papers for Ind. J. Cryo	Low Temperature Physics, Superconductivity

Highlight of the scientific achievements

Contributed in the areas of experimental Condensed Matter Physics & Materials Science, and Accelerator Physics. Elected Fellow of Indian National Science Academy (INSA) and National Academy of Science India (NASI). Superannuated after completion of the 5 years' term as the Director of Inter-University Accelerator Centre (IUAC).

Kapil Kumar

Name	Dr. Kapil Kumar
Date of Birth	December 1995
LM No.	LM 1140
Date/Year of joining ICC	08-09-2025
Life Member / Fellow	Life Member
Affiliation	Institute for Basic Science (IBS) South Korea
Position Held at the time of retirement	NA
Address Official	(37673) IBS POSTECH Campus, 79, Jigok-ro, 127beon-gil, Nam-gu, Pohang-si, Gyeongsangbuk-do
Expertise	Magnetic Topological Materials, Single Crystal growth
Total Research Experience	7 Years (Including Ph.D)
Address Residential	Dayalbagh, Agra Uttar Pradesh, India. 282005
Email ID	kapil.yadav989796@gmail.com
E mail ID alternate	kapilnplindia@gmail.com
Phone No.	+91-8368233685
Area you would be comfortable to review papers for Ind. J. Cryogenics	Yes

Highlight of the scientific achievements

I worked on Topological insulators during his PhD time and is currently working as Post-Doctoral Fellow at Institute of Basic Science POSTECH Campus South Korea. I used low temperature and high magnetic field as a primary tool to characterize his topological insulator materials.

Kar Soumen

Name	Dr. Kar Soumen
Date of Birth	July 1973
LM No.	501
Date/Year of joining ICC	2006
Life Member / Fellow	Life Member
Affiliation	Inter-University Accelerator Centre, Aruna Asaf Ali Road, New Delhi-110067
Position Held	Scientist G
Address Official	Inter-University Accelerator Centre, Aruna Asaf Ali Road, New Delhi-110067
Expertise	Cryogenics, Superconductivity
Total Research Experience	28 Years
Address Residential	
Email ID	kar.soumen@gmail.com
E mail ID alternate	soumen@iuac.res.in
Phone No.	9868206781
Area you would be comfortable to review papers for Ind. J. Cryogenics	Accelerator Cryogenics, Cryogenic Heat Transfer, LTS and HTS Superconducting Magnet, Bath-cooled and Cryogen-free magnet system, Superconductivity for Power Application.

Highlight of scientific achievements

He has been working in the field of cryogenics and applied superconductivity since 1998. He was one of the key members of the team that developed the cryogenic system and the cryomodules of the superconducting linear accelerator at the Inter-University Accelerator Centre (IUAC), New Delhi. Currently, he is leading the Cryogenic and Applied Superconductivity Group at IUAC. He played a lead role in the development of India's first cryogen-free superconducting magnet system and a cryogen-free variable temperature insert. His research primarily focuses on cryogenic heat transfer for accelerator applications, cryogen-free systems, and low-temperature and high-temperature superconductor-based technologies for diverse applications. He has also developed a modular superconducting fault current limiter based on HTS technology. At present, he is leading the indigenous development of India's first 1.5T actively shielded whole-body superconducting MRI magnet system. He has supervised four PhD scholars and has published nearly 50 research papers in peer-reviewed journals. He also serves as a reviewer for several international journals published by Springer Nature, IEEE, and Elsevier. He also holds three Indian patents related to superconducting MRI magnet technologies.

Kasturi Lal

Name	Mr. Kasturi Lal
Date of Birth	02.07.1946
LM No.	LM260
Date/Year of joining ICC	1975
Life Member / Fellow	Life Member
Affiliation	EX, CSIR- National Physical Laboratory, New Delhi – 110012
Position Held at the time of retirement	Scientist E-II
Address Official	Nil (Retired from NPL in 2006)
Expertise	Cryogenics
Total Research Experience	
Address Residential	B113/1, Rishi Nagar, Delhi – 110034
Email ID	kasturi1946@gmail.com
E mail ID alternate	
Phone No.	9971334412
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics

Highlight of the scientific achievements

I have a rich experience of Cryogenics Technology for the last about 40 years. I have contributed significantly in the development of Stirling Cycle based Liquid Nitrogen Plant. Other notable contributions are in the development of cryogenics devices such as liquid nitrogen controller, level indicator and helium purity monitor. I am the "Life Member" of the Indian Cryogenics Council since 1975.

Kavad H. R.

Name	Mr. Kavad Hiteshkumar R.
Date of Birth	June 1994
LM No.	857
Date/Year of joining ICC	2020
Life Member / Fellow	Life Member
Affiliation	Institute for plasma Research
Position Held at the time of retirement	
Address Official	
Expertise	Cryogenics, Low Temperature Physics, Superconductivity
Total Research Experience	
Address Residential	B-1004 Dharti Saket Heaven 1, New ranip chenpur road, New ranip –382470
Email ID	hitesh.kavad@ipr.res.in
E mail ID alternate	hitesh.kavad@gmail.com
Phone No.	9723309768
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Cryogenics

Kishore Talegaonkar

Name	Kishore Talegaonkar
Date of Birth	December 1960
LM No.	737
Date/Year of joining ICC	2013
Life Member / Fellow	Life Member
Affiliation	INOX India Limited
Position Held at the time of retirement	Deputy General Manager
Address Official	9th Floor KP Platina, Race Course Vadodara 390007
Expertise	Cryogenic Engineering and High Vacuum Technology
Total Research Experience	+40 years of Industrial Experience in Cryo-Scientific sector
Address Residential	A8 Anandvan, Near Mukti Nagar Tandalja Road, Vadodara 390020
Email ID	kishoret60@gmail.com
E mail ID alternate	-
Phone No.	9924201966
Area you would be comfortableto review paper Ind. J. Cryogenics	NO

Highlight of the scientific achievements

- Various projects in Cryogenics (IBP/ IOCL – BG (Cryogenics), INOX INDIA LTD

Initiated Setting up Cryo Scientific Division a separate manufacturing unit to cater to specialized equipment in Vacuum Technology & Cryogenics.

Part of the team to execute critical contract from ITER-India hermo-vacuum System for Space Application Centre ISRO.

Involved in projects like Augumantation of Second launch pad ISRO Sriharikota. Setting of Cryo fluid storages on all ISRO sites & Scientific institutes like IUAC/BARC/ IISC.

Krishnappa G.B.

Name	Prof. Krishnappa G.B.
Date of Birth	December 1983
LM No.	696
Date/Year of joining ICC	2012
Life Member / Fellow	Life Member
Affiliation	Vidyavardhaka College of Engineering
Position Held at the time of retirement	Professor
Address Official	
Expertise	Cryogenics
Total Research Experience	
Address Residential	5053, Nanda Gokula, Vijayanagara 4th Stage, 2nd Phase, Mysuru, Karnatka – 570032
Email ID	gbkrishnappa@gmail.com
E mail ID alternate	drgbkrishna@gmail.com
Phone No.	9243528200
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

As I was busy with administrative work, I couldn't do 100% justice to research. Completed two Govt. funded projects and two private company founded projects.

Kulkarni Parag P.

Name	Kulkarni Parag Padmakar
Date of Birth	September 1950
LM No.	LCM-551
Date/Year of joining ICC	June 1995
Life Member / Fellow	LM
Affiliation	INOX India Limited
Position Held at the time of retirement	Executive Director
Address Official	9th Floor KP Platina, Race Course Vadodara 390007
Expertise	Cryogenic Engineering and High Vacuum technology. Expertise in Cryogenic Storage and Distribution systems
Total Research Experience	+50 Years
Address Residential	C-404, Samrajya flats, Near Sabri Vidyalaya, Vasana Road Vadodara 390015
Email ID	parag.kulkarni@inoxcva.com
E mail ID alternate	parag0750@yahoo.co.in
Phone No.	9824032782
Area you would be comfortable to review papers for Ind. J. Cryo	Y – Cryogenic Storage and distributions. Large scale Industrial and Research Cryogenic Equipment

Highlight of the scientific achievements

Associated with growth of Cryogenic Equipment Industry in India. Global Cryogenic Storage and Distribution equipment expertise, both for Industrial as well as Research applications, including LNG and Liquid Helium/Hydrogen

Kurian Emel V.

Name	Mr. Kurian Emel V
Date of Birth	March 1994
LM No.	882
Date/Year of joining ICC	2021
Life Member / Fellow	882
Affiliation	Indian Institute of Technology Kharagpur
Position Held	
Address Official	
Expertise	Cryogenics
Total Research Experience	
Address Residential	emelv1327@gmail.com
Email ID	emelv1327@gmail.com
E mail ID alternate	emelv.kurian@iitkgp.ac.in
Phone No.	9809387867
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics

Highlight of the scientific achievements

My research advances cryogenic carbon capture (CCC) through desublimation and cyclone-based separation, targeting efficient COâ,, removal from gas streams. I have developed methodologies to reduce phase equilibrium prediction uncertainty, lowering refrigeration load estimates from 40% to below 3%. Using machine learning, I improved vaporâ€“liquid and solidâ€“vapor equilibrium predictions for Nâ,,â€“COâ,, systems, accelerating computations while enhancing accuracy. I also contribute to experimental design strategies that optimize operating ranges for flow rate, temperature, and composition in CCC studies. These efforts integrate experimental, theoretical, and computational tools to improve the feasibility of large-scale carbon capture technologies.

Man Mohan Singh

Name	Manmohsn Singh
Date of Birth	July 1960
LM No.	636
Date/Year of joining ICC	2009
Life Member / Fellow	Life Member
Affiliation	
Position Held at the time of retirement	Scientist G and Technology Director
Address Official	Nil
Expertise	Miniature Stirling and JT Coolers
Total Research Experience	35 yrs
Address Residential	1640, Brahmputra Apartments Sector 29, NOIDA (UP)
Email ID	manmohan60@gmail.com
E mail ID alternate	
Phone No.	9811810264
Area you would be comfortable to review papers for Ind. J. Cryo	Stirling and JT coolers

Highlight of the scientific achievements

I have over 35yrs of experience in the development of miniature Sirling and JT coolers for Defense applications. Joined SOLID STATE PHYSICS LAB (DRDO) Delhi in 1986. Also worked with INMAS DELHI where I was involved in the operation and maintenance of Liquid Helium,liquid ,nitrogen Plants and 1.5 Tesla super conducting magnet for medical MRI system for about 5 yr.

At SSPL I have steered the development of Technology for 0.5 watt stirling Cryocoolers and Transferred the Technology to production agency. I am a recipient of DRDO Agni award for this work. In addition I have received 5 Lab level award including Scientist of the year award. Currently I am an expert member to Review DRDO sponsored projects to various Academic Institutes by DRDO Academia – Industry centre IIT Roorkee.

Meena Hansraj

Name	Hansraj Meena
Date of Birth	September 1983
LM No.	
Date/Year of joining ICC	
Life Member / Fellow	Life Member
Affiliation	CSIR-National Physical Laboratory, New Delhi -110012
Position Held at the time of retirement	Sr Technical Officer
Address Official	Room No: 127 AML Building, CSIR-National Physical Laboratory, Dr KS Krishnan Road, New Delhi-110012
Expertise	Primary Thermometry (-196 °C to 962°C)
Total Research Experience	18 Years
Address Residential	F-18 NPL Colony, New Rajinder Nagar, New Delhi-110060
Email ID	meenahm.nplindia@csir.res.in,
E mail ID alternate	hansrajnpl@gmail.com
Phone No.	01147091249, Mob: 9313788215
Area you would be comfortable to review papers for Ind. J. Cryo	

Highlight of the scientific achievements

Fixed point calibrations of SPRTs and thermocouples, Comparison calibration of LIGT, RTD, Thermocouple, Thermal Sources (Oven, Chambers, Furnaces, calibrators), Calibration and testing of Clinical Thermometers in the temperature range from 196 °C to 962°C and R & D in metal-carbon eutectic fixed points for high temperature radiation thermometry, relative humidity, Moisture and Boltzmann Constant project. Updating, Maintenance and Implementation of Quality System as per ISO/IEC 17025:2017 in Temperature and Humidity Metrology Section.

Meena R. S.

Name	Dr. Rajendra Singh Meena
Date of Birth	May 1974
LM No.	262
Date/Year of joining ICC	05/01/2004
Life Member / Fellow	Life Member
Affiliation	Sr. Principal Scientist
Position Held at the time of retirement	Not Applicable
Address Official	National Physical Laboratory, Dr. K S Krishana Marg
Expertise	Cryogenics and superconductivity
Total Research Experience	25
Address Residential	TRSA 60, NPL colony, New Delhi 110060
Email ID	mrajendra2000@gmail.com
E mail ID alternate	meenars.nplindia@csir.res.in
Phone No.	9555326042
Area you would be comfortable to review papers for Ind. J. Cryo	Superconductivity and Cryogenics Technology

Highlight of the scientific achievements

Experience in Cryogenics technology

❖ **Project on MLI (Multi Layer Insulation):** This project was done at IUAC, formally. How Multilayer insulation work and under the parameters which effects it, experimentally and theoretical studies were carried out.

❖ **Purification of Helium gas:** A purifier had been made at IUAC, having the facility to purify helium gas with impurity 1% of air (Nitrogen, Oxygen, water molecule etc.) This purifier can run in both auto and Manual mode.

❖ **Helium and nitrogen distribution line:** worked for Design and installation of Helium and liquid nitrogen distribution line at IUAC

❖ **Emission free, liquid nitrogen based Vehicle:** This project had done in collaboration with DCE and IUAC.

❖ **Liquid Helium Facility (L-70) at NPL:** Instrumental in Installation and commissioning of liquid helium facility at NPL

Area of research Interest

Superconducting Materials: Synthesis and analysis of iron based superconductors. FeSe films and intercalation of Alkali metal to improve superconductivity. Magnetoclarific materials for refrigeration application

Experience in Metrology

❖ Lf & Hf DC metrology and DC High Voltage, up to 100kV.

Mishra Arpit

Name	Dr. Arpit Mishra
Date of Birth	October 1989
LM No.	LM-895
Date/Year of joining ICC	2021
Life Member / Fellow	Life Member
Affiliation	Duke University, North Carolina, USA
Position Held at the time of retirement	Postdoctoral Associate (currently active; not retired)
Address Official	C/O Dr. Arpit Mishra PED Lab, Cryogenic Engineering Centre, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, India 721302
Expertise	Cryogenics, Cavitation and Bubble Dynamics, Cryogenic Fluid Systems, CFD & Multiphysics Simulation, Thermal-Fluid Systems.
Total Research Experience	~11 years (2014–Present)
Address Residential	
Email ID	arpitm.iitkgp@gmail.com
E mail ID alternate	arpit.mishra@iitkgp.ac.in
Phone No.	+ 91 9800263451
Area you would be comfortable to review papers for Ind. J. Cryogenic	Cryogenic Fluid Dynamics, Cavitation Phenomena, Thermal Systems, CFD and Simulation of Cryogenic Processes, Cryogenic Component Design, Fluid Transients

Highlight of the scientific achievements

Dr. Arpit Mishra specializes in cryogenic fluid dynamics and cavitation phenomena, integrating high-speed experimental diagnostics with computational modeling. His doctoral work at IIT Kharagpur explored high-speed jet formation from interacting cavitation bubbles, earning recognition from the Cryogenic Society of America and the American Physical Society (Milton Van Dyke Award, 2021). His research contributions span cryogenic turbomachinery, two-phase flow modeling, and advanced laser-fluid interaction for biomedical applications. He has authored over 35 peer-reviewed publications, and recipient of Raman Charpak Fellowship 2018.

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- In-built liquid storage in 35/50/100 litre dewar from reputed Europenan supplier
- Liquefaction system from global leader in cryogenics

Optional Accessories & Add-On Features

- Chilled water option available with optional chiller
- Larger liquid nitrogen storage available with separate storage tank
- Hose dispenser with shutoff valve
- Remote monitoring capability / IoT
- Software for desktop monitoring of system performance

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Power: 4-8 kW total power as per output capacity

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Email : sales@mvsengg.com

Sales: Mr. Bireshwar Das +91 96500 94869

Website : www.mvsengg.com

Mishra S. K.

Name	Mr. Mishra Santosh Kumar
Date of Birth	August 1976
LM No.	695
Date/Year of joining ICC	2011
Life Member / Fellow	Life Member
Affiliation	Variable Energy Centre, Kolkata – 700064
Position Held at the time of retirement	
Address Official	ADMS,MEG, Variable Energy Cyclotron Centre, Department of Atomic Energy, GOI, 1/AF, Bidhan-nagar, Kolkata – 700064 (WB) India
Expertise	Cryogenics, Superconductivity
Total Research Experience	
Address Residential	
Email ID	smishra@vecc.gov.in
E mail ID alternate	santosh_vecc@yahoo.com; skmishra@gmail.com
Phone No.	9903876003
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics, Superconductivity

Highlight of the scientific achievements

Presently Working in the Superconducting Cyclotron Project VECC.

Muley P. K.

Name	Dr. Muley Parag Kamalakar
Date of Birth	June 1972
LM No.	755
Date/Year of joining ICC	2013
Life Member / Fellow	Life Member
Affiliation	Sardar Patel College of Engineering, Mumbai
Position Held at the time of retirement	
Address Official	Sardar Patel College of Engineering, Andheri (W) Mumbai – 400058 (M.S.)
Expertise	Cryogenics
Total Research Experience	
Address Residential	B-405, Divya Apartment, Triveni Nagar, Off Western Express Highway, Malad (East), Mumbai-40097
Email ID	muleyparag22@gmail.com
E mail ID alternate	pkmuley@spce.ac.in
Phone No.	9892332855
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

1) Ph.D. Research 'Investigation on Cryocooler Based Helium Recondensing Cryostat' funded by BRNS (Guide: Prof. M.D. Atrey and Prof. S.L. Bapat, IIT Bombay) 2) Development of a helium recondensing cryostat, doi :10.1088/1757-899X/755/1/012040 3) Design analysis of a helium recondenser, doi :10.1088/1757-899X/171/1/012067 4) Innovative approach for supply chain management of medical oxygen in India, 4th Int. Conf. i-MACE 2025, PCCoE Pune, August 2025 5) Design analysis of helium compressor for G-M cryocooler, 2025, Chapter 71, https://www.routledge.com/Advances-in-Thermal-System-Materials-and-Design-Engineering/Rajiwade-Gulhane/p/book/9781041209607, CRC Press, 1st Edition, Proc.: 2nd Int. Conf. ATSMDE-2024, VJTI Mumbai, Dec.2024 6) Design, manufacturing and testing of a portable cooling jacket, 8th National and 2nd Int. Conf. NCRAC-2024, IIT Madras, March 2024 7) Design of battery thermal management system of electric vehicle for Indian scenario, International Journal of Industrial Electronics and Electrical Engineering, Volume-10, Issue-5, May 2022, http://ijieee.org.in 8) Thermodynamic analysis of LNG distribution system, 28th NSCS-28, IIT Kharagpur, 18-21 Oct. 2022.

Nadig D.S.

Name	D. S. Nadig
Date of Birth	June 1961
LM No.	532
Date/Year of joining ICC	April 2006
Life Member / Fellow	Life Member
Affiliation	Indian Institute of Science, Bengaluru
Position Held	Principal Research Scientist
Address Official	Centre for Cryogenic Technology, Indian Institute of Science, Bengaluru
Expertise	Properties of materials at low temperatures, Cryogenic treatment on metals and cryo-tribology
Total Research Experience	29 years
Address Residential	#224,4th main, BEL 6th block, Vidyaranyapura, Bengaluru 560097
Email ID	nadig@iisc.ac.in
E mail ID alternate	durgeshnadig@gmail.com
Phone No.	9242869430
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenic treatment of metals, Cryo tribology, Mechanical properties of materials at cryogenic temperatures

Highlight of the scientific achievements

I have twenty-nine years of experience in the area of cryogenic engineering. Presently I am working as Principal Research Scientist in IISc. Over these years, I have successfully completed many projects for LPSC, ISRO. My main area of research activities is related with low temperature mechanical properties of materials, Cryo tribology and cryogenic treatment on metals. Earlier I have served the ICC as a Joint Secretary of the south zone and contributed for the successful completion of the National Symposium on Cryogenics (NSC22) during December 2006. I have published more than fifty technical papers related in both national and International journals of high repute.

Nandi Tapas Kumar

Name	Dr. Tapas Kumar Nandi
Date of Birth	20 May, 1963
LM No.	-
Date/Year of joining ICC	1998
Life Member / Fellow	Life member
Affiliation	Professor, Cryogenic Engineering Centre, IIT Kharagpur
Position Held at the time of retirement	NA
Address Official	Professor, Cryogenic Engineering Centre, IIT Kharagpur, WB - 721302
Expertise	Cryogenic Refrigeration/Liquefaction, Cryogenic and semi-cryogenic rocket propulsion, compact heat exchanger
Total Research Experience	38 Years
Address Residential	Qtrs. No. B-45, IIT Campus, Kharagpur, WB - 721302
Email ID	tkncryo@ gmail.com
E mail ID alternate	tkn_cryo@cryo.iitkgp.ac.in
Phone No.	+91 9434040897 03222 -283598
Area you would be comfortable to review papers for Ind. J. Cryo	Thermal

Highlight of the scientific achievements

I mostly engage myself in fundamental research. A good amount of time I spent on the design and development of perforated plate heat exchangers (PPHE) for cryogenic applications. Several PPHEs have been successfully fabricated in house by diffusion bonding. Two Ph.D theses is already completed on this topic and another Ph.D thesis work is going on, in specific, for applications at 2K. I also carried out several sponsored projects from ISRO in the areas of thermal insulation, cooling of helium at high pressure using liquid hydrogen, multisensor data fusion etc. Also I enjoy doing research on nonconventional refrigeration system such as pressure wave refrigerators, refrigeration using CD nozzle etc. I have introduced a new subject, titled Cryogenic and semicryogenic rocket propulsion, in the M. Tech. course curriculum of the Centre. Besides, I am presently serving as the editor, Indian Journal of Cryogenics.

Narayankhedkar K. G.

Name	Prof. Narayankhedkar K.G.
Date of Birth	June 1946
LM No.	201
Date/Year of joining ICC	Right from inception
Life Member / Fellow	Founder Fellow
Affiliation	Professor and Dean (Planning), IIT Bombay Director, VJTI Mumbai AICTE-INAE Distinguished Professor Chancellor, MGM IHS, Navi Mumbai Current Assignment; Director SATEDU VISTAAR Foundation, Mumbai 00018
Position Held at the time of retirement	Professor, IIT Bombay
Address Official	Current; A8 Venus Society Dr Ram Thadani Marg Sea Face Worli, Mumbai 00018
Expertise	Mechanical and Thermal Engineering, Refrigeration and Air-conditioning, Cryogenics, Thermodynamics
Total Research Experience	@ 50 Years
Address Residential	E-1003, Delta Tower 1, Sector 8, ULWE, Navi Mumbai-26
Email ID	kgnarayankhedkar@yahoo.com
E mail ID alternate	Kgn.nba@yahoo.com
Phone No.	+91 9167218577
Area you would be comfortable to review papers for Ind. J. Cryogenics	Yes

Highlight of the scientific achievements

Prof. Narayankhedkar and his team developed several technologies in the high-tech area of cryogenics. Some of developments include Stirling Cycle nitrogen liquefier and Liquid nitrogen based Individual Quick freezing (IQF) Tunnel. He was also actively involved in the review program related to development of Cryogenics Engine in the Department of Space. Prof. A. Bose Memorial Life Time Contribution Award in Cryogenics (2004), the highest and the most prestigious national recognition for outstanding contribution to Cryogenic Engineering for achievements globally recognized of path- breaking nature. Prof. Narayankhedkar is recipient of development on 'Pulse Tube Cryocooler using the Linear Compressor' (2004). He was honoured **"Dr. P. K. Patwardhan Award"** for the innovative technology.Prof. Narayankhedkar was elected as a Fellow, Indian National Academy of Engineering, INAE in 1988, Member of International Cryogenic Engineering Committee (ICEC) in 1994, President of Indian Cryogenics Council (ICC) during 1993-95, Vice Chairman, International Cryogenic Engineering Committee (ICEC) during 1998-2002. Member of International Institute of Refrigeration (France), Commission Al in 2000. He was the Vice Chairman of the International Cryognic Engineering Committee (1999-2003) and Editor of the Proceedings of the International Cryogenic Engineering Conference, ICEC 18, (2000).

Narlikar A. V.

Name	Prof. Narlikar Anant Vishnu
Date of Birth	March 1940
LM No.	264
Date/Year of joining ICC	1975
Life Member / Fellow	Fellow
Affiliation	Ex-National Physical Laboratory, New Delhi-110012
Position Held at the time of retirement	Scientist- Director's Grade
Address Official	Superannuated from NPL in March 2000
Expertise	Superconductivity
Total Research Experience	60 Years
Address Residential	211-212, Peace Point Colony, Behind Khandwa Road, Indore – 452001 (Madhya Pradesh)
Email ID	av.narlikar@gmail.com
E mail ID alternate	narlikar@yahoo.com
Phone No.	+91 8527577494
Area you would be comfortable to review papers for Ind. J. Cryogenics	Superconductivity

Highlight of the scientific achievements

Fellow of the Indian National Science Academy (FNA)
Fellow of the Indian Academy of Sciences (FASc)
Fellow of the National Academy of Sciences, India (FNASc)
Full Fellow of the International Academy of Electro Technical Sciences, Moscow, Russia
Member of the Asia Pacific Academy of Materials, Singapore
Founder Fellow, Indian Cryogenics Council, India
Formerly Fellow of the Institute of Physics, UK and Fellow of the Institution of Metallurgists, UK

Prof. Narlikar has edited/ co-edited and authored/ co-authored over 60 books, including the 3-volume set of *The Oxford Handbook on Nanoscience and Technology* as well as *The Oxford Handbook on Small Superconductors* and the book series, *Studies in High Temperature Superconductors*. His publications include over 400 research papers in peer-reviewed international journals.

He has held senior visiting positions at the University of Turku (Wihuri Visiting Professorship), Hebrew University (Lady Davis Professorship), University of Cambridge, Peking University, UFSCAR (São Carlos), Max Planck Institute Stuttgart (Max Planck Fellow), amongst others.

Nishant Kumar

Name	Mr. Nishant Kumar
Date of Birth	July 1984
LM No.	868
Date/Year of joining ICC	2020
Life Member / Fellow	Life Member
Affiliation	ISRO, Bengaluru
Position Held at the time of retirement	
Address Official	Scientist/Engineer, DHSP, ISRO Headquarters, Jalahalli, Bengaluru – 560013
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	nishant.iitb14@gmail.com
E mail ID alternate	nishantkumar@isro.gov.in
Phone No.	8660807461
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

I was overall Engineer in Charge for Assembly & Integration for Cryogenic Engine (CE20) and successfully delivered CE20 engine from development stage to functional flight LVM3 M1 flight at ISRO Propulsion Complex, Mahendragiri during 2014 -2020.

Ojha V. N.

Name	Dr. Ojha Vijay Narain
Date of Birth	September 1958
LM No.	504
Date/Year of joining ICC	2006
Life Member / Fellow	Life Member
Affiliation	Ex-CSIR-National Physical Laboratory New Delhi – 110012
Position Held	Retired as Scientist G
Address Official	Retired from CSIR-NPL, New Delhi
Expertise	Superconductivity
Total Research Experience	35 Years
Address Residential	CGV195, DLF Capital Greens, 15 Shivaji Marg, New Delhi – 110015
Email ID	vnojha@yahoo.com
E mail ID alternate	ojhavn@gmail.com
Phone No.	9958993385
Area you would be comfortable to review papers for Ind. J. Cryogenics	Superconductivity

Highlight of scientific achievements

Dr. Vijay Narain Ojha superannuated on September 30, 2018 as Chief Scientist and Heads, of various Metrology Division of CSIR-National Physical Laboratory (CSIR-NPL), New Delhi. Ex- Professor, AcSIR. Contributed significantly to India's Metrology programme at the CSIR-NPL and in the country and received the international 'APMP Award for Developing NMI-2016'. Established 1V and 10 V Josephson Voltage Standards (JVS) and programmable JVS in CSIR - NPL to disseminate calibration and traceability to SI unit of 'Volt' at par to international level. Fabrication of JVS chips ($NbAl_2O_3$) was done by him at PTB, Germany under DAAD fellowship. For his significant contribution on JVS and High Tc SQUID, received CSIR - Young Scientist Award in 1992 and of URSI, Belgium in 1993. Merit Scroll of A.N. Chatterji Memorial Award of Indian Cryogenic Council for outstanding work of 1990 in High Tc SQUID.

Padmavathi M.

Name	Dr. Manchineellu Padmavathi
Date of Birth	July 1985
LM No.	949
Date/Year of joining ICC	09/11/2024
Life Member / Fellow	Life member
Affiliation	KVR Govt Degree College for Women, Kurnool
Current Position/ Position Held at the time of retirement	Lecturer in Physics
Address Official	Dept of Physics, KVR Govt Degree College for Women, Kurnool-518002
Expertise	Low Temperature Physics, Superconductors, and Electronics
Total Research Experience	7.5
Address Residential	Flat No.202, Mukunda Nilayam, Road No8, NR Peta, Kurnool-518002
Email ID	paddu.manchi@gmail.com
E mail ID alternate	padmaphy.kvr23@gmail.com
Phone No.	9160313719
Area you would be comfortable to review papers for Ind. J. Cryo	Yes, with Pleasure.

Highlight of the scientific achievements

I, Dr. M. Padmavathi, Assistant Professor, KVR Government college for Women, Kurnool has 7.5years of Teaching experience for UG students and have more than ten years of experience in the preparation and characterizations of composites of Superconductors. As a part of my doctoral work, I had worked on Studies on Some Layer Structured Superconductors: Bi4O4S3, Bi-2212 and MgB2. In this field I have published more than 10 research articles. Allthe researcharticlesare published internationally inreputed withScopusand SCI Indexed journals. In addition,I am working on the fiber optic sensors and green energy materials with collaboration of coresearchers. I am very passionate about working on multilayer thin films and Nano materials of superconductors to improve their superconducting and mechanical properties, which can make these superconductors suitable for practical applications. I would like to establish highly sophisticated experimental laboratory to continue my research work composite and hetero structures of superconductors,superconducting wires and superconducting magnets.

Pallavi Kushwaha

Name	Dr Pallavi Kushwaha
Date of Birth	December 1983
LM No.	965
Date/Year of joining ICC	20/01/2025
Life Member / Fellow	Life Member
Affiliation	Principal Scientist and Deputy Head, BND Management Section, BND Division, CSIR-National Physical Laboratory (NPL) New Delhi -110012
Position Held at the time of retirement	NA
Address Official	Room no 138, Main Building, BND Management Section, BND Division, CSIR-National Physical Laboratory (NPL); Dr K S Krishnan Marg, New Delhi-110012
Expertise	Low temperature and High Magnetic Field Electric and Magnetic measurements
Total Research Experience	
Address Residential	TRSA-64, NPL Colony New Rajender Nagar, New Delhi
Email ID	pallavik.nplindia@csir.res.in
E mail ID alternate	pallavi.bebu@gmail.com
Phone No.	9004184756
Area you would be comfortable to review papers for Ind. J. Cryo	Yes

Highlight of the scientific achievements

Dr. Pallavi Kushwaha was born and brought up in Uttar Pradesh, India. She earned her Bachelor degree in Science and Masters in physics with gold medal from Bundelkhand University, Jhansi, India. Her PhD in Material Science is from UGC-DAE Consortium for Scientific Research, Indore, India.

Dr. Kushwaha joined Tata Institute for Fundamental Research, Mumbai, India in 2011 as a Research Associate and later she moved to the Max-Planck Institute-Chemical Physics for Solids (MPI-CPfS), Dresden, Germany and worked there from 2013 to 2017. Demonstrating her commitment to science, she joined Council of Scientific and Industrial Research-National Physical Laboratory (CSIR-NPL) in 2017 as a Ramanujan Fellow. Her contributions were recognized, and in 2018, she assumed the position of Senior Scientist and Deputy Head of BND (Bharatiya Nirdeshak Dravya) management.Dr. Kushwaha played a pivotal role in establishing the Indian reference materials activity at CSIR-NPL, aligning with the Government of India's import policy substitution and the "Make in India" initiative. She has an impressive collection of more than 70 high-quality publications in international journals of repute such as Nature, Science having h-index of 20 and a total citation of ~2000. Currently she is also engaged in the synthesis of single crystalline materials and low-temperature and high magnetic field characterization for quantum device applications.

Panchal Rohitkumar N.

Name	Panchal Rohitkumar N.
Date of Birth	August 1976
LM No.	LM-724
Date/Year of joining ICC	2013
Life Member / Fellow	Life Member
Affiliation	Institute for Plasma Research
Position Held	Scientific Officer - F
Address Official	Near Indira Bridge, Bhat, Gandhinagar-382428 (Gujarat)
Expertise	Cryogenic Instrumentation, Specially Flow meter, Valves
Total Research Experience	~21 years
Address Residential	
Email ID	rpanchal@ipr.res.in
E mail ID alternate	Rnp76@yahoo.com
Phone No.	Office: +91-79-2396 4059 MO: +91 9427031237
Area you would be comfortable to review papers for Ind. J. Cryo	Yes

Highlight of the scientific achievements

I have dedicated my career to the specialized field of Cryogenic Instrumentation and Control Systems, more than 20 years of hands-on experience at the Institute for Plasma Research (IPR). My tenure has primarily focused on the operation, control, and maintenance of the SST1 cryogenic system, which features a 1.3 kW @ 4.5K plant—a facility recognized as one of the largest of its kind in India.

My experience extends beyond routine operations to include significant R&D contributions. I successfully led the design, development, and validation of Venturi-type flow elements for precise Helium and Nitrogen flow measurements. I conceptualized and realized the LN2 distribution system for the 80K thermal shield of SST1 and managed the sizing and selection of critical components (control valves, PT, DPT) for various experiments, including HTS Current Feeder systems and magnet testing chambers. Most recently, I designed and developed the full PID instrumentation and control loop configuration for the new R&D lab's LN2 and GN2 distribution systems.

Panda Umashankar

Name	Mr. Panda Umashankar
Date of Birth	July 1976
LM No.	562
Date/Year of joining ICC	2007
Life Member / Fellow	Life Member
Affiliation	Head, Electrical Section, VECC, Department of Atomic Energy, 1/AF, Bidhannagar, Kolkata
Position Held at the time of retirement	Head, Electrical Section
Address Official	Variable Energy Cyclotron Centre, Kolkata-700064
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	usp@vecc.gov.in
E mail ID alternate	u.panda@gmail.com
Phone No.	9330615600
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics

Highlight of the scientific achievements

I have done commissioning and automation of helium liquefiers and associated cryogenic systems of VECC, for continuous round the clock operation. I have done modification of helium liquefier for optimum operation as refrigerator for Superconducting Cyclotron. I have experience in medical cyclotron indigenous commissioning and automation. I also have the expertise of HT and LT Electrical systems upto 33 KV.

Patel Sandhya Malikar

Name	Patel Sandhya Malikar
Date of Birth	December 1984
LM No.	
Date/Year of joining ICC	2025
Life Member / Fellow	
Affiliation	CSIR-National Physical Laboratory, New Delhi
Position Held at the time of retirement	
Address Official	
Expertise	Microwave superconductivity and low temperature measurement
Total Research Experience	16 years
Address Residential	
Email ID	patelsm.nplindia@csir.res.in
E mail ID alternate	sandhya.malikar@gmail.com
Phone No.	9560577233
Area you would be comfortable to review papers for Ind. J. Cryo	Yes

Highlight of the scientific achievements

Since I began working at CSIR-NPL, I have contributed to several important national and international research initiatives in electrical and quantum metrology. My main research areas are: Microwave Superconducting Systems, especially those based on cryogenic and quantum effects, which are used to develop cutting-edge measurement systems and high-precision instrumentation; Quantum Voltage Standard Systems, where I have been working on quantum-based voltage references that play a crucial role in defining and disseminating the unit of voltage (the volt) with the highest levels of accuracy and stability; and Cybersecurity in Metrology, which focuses on securing the measurement data, systems, and protocols to guarantee the integrity and dependability of national standards in the digital era.

Peshwe D.

Name	Prof. Peshwe Dilip
Date of Birth	January 1962
LM No.	812
Date/Year of joining ICC	2017
Life Member / Fellow	Life Member
Affiliation	Visvesvaraya National Institue of Technology, Nagpur
Position Held at the time of retirement	Professor
Address Official	Department of MME, VINIT, Nagpur – 440010
Expertise	Cryogenics, Superconductivity
Total Research Experience	
Address Residential	
Email ID	drpeshwe@rediffmail.com
E mail ID alternate	peshwedilip1@gmail.com
Phone No.	9372802996
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics, Superconductivity

Highlight of the scientific achievements

1. Cryogenic treatment of toolsteels
2. Cryogenic treatment of polymer and polymer blends
3. Cryogenic processing of composite materials
4. Surface modifications of various materials with cryo treatments

Prabhakara S.

Name	Mr. Prabhakara S.
Date of Birth	May 1991
LM No.	833
Date/Year of joining ICC	2019
Life Member / Fellow	Life Member
Affiliation	Cryogenics Laboratory, Department of Mechanical Engineering, IIT, Bombay
Position Held at the time of retirement	
Address Official	Indian Institute of Technology, Bombay
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	prabhakaras@iitb.ac.in
E mail ID alternate	prabhakaras@iitb.ac.in
Phone No.	9742311564
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

None

Radhakrishnan T. S.

Name	Thimmakudy Sambasiva Radhakrishnan
Date of Birth	February 1942
LM No.	574
Date/Year of joining ICC	
Life Member / Fellow	Fellow
Affiliation	Indira Gandhi Centre for Atomic Research Department of Atomic Energy, Kalpakkam Tamilnadu 603102 (Retired)
Position Held at the time of retirement	Head, Material Science Division, IGCAR
Address Official	NIL (as retired first as IGCAR scientist in 2002 and later as supported DST scientist year 2015 at IGCAR, Kalpakkam)
Expertise	Low Temperature Physics, Superconductivity and Applications, Cryogenics, SQUIDs, Magnetoencephalography, Materials Science
Total Research Experience	About 50 Years
Address Residential	6/19, Sivakamipuram First Cross street, Tiruvanmiyur, Chennai 600041, India.
Email ID	tsr.res@gmail.com
E mail ID alternate	tsr.res@gmail.com
Phone No.	9444958259
Area you would be comfortable to review papers for Ind. J. Cryo.	Cryogenics, Superconductivity, SQUIDs, Low Temperature Physics

Highlight of the Scientific achievements

Establishing over 100 publications on diverse topics of experimental research in all aspects of superconductivity and superconducting materials including the path breaking high Tc superconductorsguiding over 10 doctoral students, indigenous development of superconducting multifilamentary Nb-Ti composite wires (with BARC), establishing a pilot plant, separating helium gas from monazite sand at Indian Rare Earths Alwaye (with T S Datta, then my research colleague at Kalpakkam), successfully carrying out (with research colleagues), indigenous development of Nb SQUID sensors (establishing a SQUID fabrication laboratory, then unique in the countryand one of the very successful.Nationwide development under high Tc superconductor initiative, development of the techniques of Magneto encephalography (MEG) for human brain research and Magnetocardiography (MCG) for the electrical activity of the human heart for the first time in the country through a generously funded initiative of the DST. This formed the last 12 years of my research work along with other colleagues and also marked my post superannuation research at IGCAR (MCG of IGCAR is presently being used by the cardiology group of JIPMER, Pondicherry.

Ramesh Ade

Name	**Dr. Ramesh Ade**
Date of Birth	May 1983
LM No.	947
Date/Year of joining ICC	2024
Life Member / Fellow	Life Member
Affiliation	Department of Physics, Koneru Lakshmaiah Education Foundation, Aziz Nagar P.O., Hyderabad, Telangana-500075, India
Position Held at the time of retirement	-
Address Official	Department of Physics, Koneru Lakshmaiah Education Foundation, Aziz Nagar P.O., Hyderabad, Telangana-500075, India
Expertise	Preparation of oxide thin films, Magnetism, Dielectrics, Multiferroics, Spintromics, Low Temperature Physics
Total Research Experience	8 Years
Address Residential	H. No: 2-10, Cherlapally (V), Endapalli (M), Jagtial (D) 505526 (P), Telangana, India
Email ID	ramesh.ade1983@gmail.com
E mail ID alternate	ramesh.ade@klh.edu.in
Phone No.	9000955238
Area you would be comfortable to review papers for Ind. J. Cryo	Magnetism

Highlight of the scientific achievements

I have obtained my PhD degree from the University of Hyderabad, India in 2016. After, I have worked as a post-doctoral fellow at Indian Institute of Technology Bombay, India (2016-2018) and at National Taiwan University, Taiwan (2018-2020). After that I joined Koneru Lakshmaiah Education Foundation, Hyderabad, India as an Assistant Professor in 2021. My research focuses on the synthesis and characterization of complex oxides in different forms, magnetism, electron spin resonance, dielectrics, multiferroics, opto-electronics and spintronics.

Raveesh Kumar

Name	Dr. Raveesh Kumar
Date of Birth	January 1959
LM No.	556
Date/Year of joining ICC	2007
Life Member / Fellow	Life Member
Affiliation	Retired
Position Held	
Address Official	
Expertise	Cryogenics
Total Research Experience	
Address Residential	F-203, Grand Ajnara Heritage, Sector-74 NOIDA (UP)- 201316
Email ID	raveeshagrawal@gmail.com
E mail ID alternate	
Phone No.	9899012510, 8287308694
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics

Highlight of scientific achievements

Development of Joule Thomson cooling systems for cooling of Imaging IR sensor for heat seeking missiles, Phase change Materials, &Liquid Nitrogen based Thermal management systems to cater to high heat loads for short duration applicable to Laser weapons systems. Creation of Test Range for test qualification of KW class Laser weapons. Standardization of police/prison/CAPFs specific weapons & ammunition, Equipment. Framing of qualitative requirements of new equipment viz bullet-proof items for state/central police forces.

Rohan Kundu

Name	Rohan Kundu
Date of Birth	June 21, 1997
LM No.	NA
Date/Year of joining ICC	Not a member
Life Member / Fellow	NA
Affiliation	Research Scholar, Indian Institute of Technology, Kharagpur
Position Held at the time of retirement	NA
Address Official	Department of Cryogenic Engineering, Ardeshir Dalal Ave, IIT Kharagpur, Kharagpur, West Bengal 721302
Expertise	Sloshing of liquid cryogen, Boil-off, Interfacial transport phenomena
Total Research Experience	3
Address Residential	NA
Email ID	rhkundu31@gmail.com
E mail ID alternate	rhkundu2023@kgpian.iitkgp.ac.in
Phone No.	8918931107
Area you would be comfortable to review papers for Ind. J. Cryogenics	Heat and mass transfer, Phase equilibrium, Energy storage

Highlight of the scientific achievements

-NA-

Rout S. K.

Name	Dr. Rout Sachindra Kumar
Date of Birth	October 1988
LM No.	917
Date/Year of joining ICC	2023
Life Member / Fellow	Life Member
Affiliation	C.V. Raman Global University, Bhubhneshwar
Position Held at the time of retirement	
Address Official	C.V. Raman Global University Bhubhneshwar
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	sachindra106@gmail.com
E mail ID alternate	sachindra106@gmail.com
Phone No.	8895815648
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

I am working actively in the area of Regenerative Cryocooler. Along with my team we have developed a 24 L/day Liquid nitrogen generator Indigenously.

Sagar Pankaj

Name	Dr. Sagar Pankaj
Date of Birth	April 1988
LM No.	850
Date/Year of joining ICC	2019
Life Member / Fellow	850
Affiliation	Cochin University of Science and Technology
Position Held	
Address Official	
Expertise	Cryogenics; Superconductivity
Total Research Experience	
Address Residential	Department of Instrumentation, Cochin University of Science and Technology, Ernakulam, Kerala
Email ID	pankajs@cusat.ac.in
E mail ID alternate	pankaj.sagar88@gmail.com
Phone No.	9611366896
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics; Superconductivity

Highlight of the scientific achievements

A strong academic foundation at IISc, including a PhD in Instrumentation and Applied Physics and a post-doctoral fellowship in cryogenic technology, demonstrates expertise in cryogenics instrumentation. Further post-doctoral research was conducted at the University of Twente in the Netherlands. Research, published in over 20 international journal articles, focuses on: Developing cryogenic sensors for space. Non-destructive evaluation of SRF cavities. Designing cryostats and cryo-compatible systems. The SIRE-Fellowship and the Young Scientist Research Award recognize diverse expertise that contributes to the field of cryogenics.

Saha Subimal

Name	Dr. Subimal Saha
Date of Birth	December 1953
LM No.	LM502
Date/Year of joining ICC	April 2006
Life Member / Fellow	Fellow
Affiliation	Variable Energy Cyclotron Centre Department of Atomic Energy
Position Held at the time of retirement	Outstanding Scientist, Project Director, Medical Cyclotron Head, Accelerator Technology Group, Head, Cryogenic Plant, Instrumentation and Engineering Services Group
Address Official	Variable Energy Cyclotron Centre, 1/AF, Bidhan Nagar, Kolkata-700064
Expertise	Superconducting Magnet, Power Electronics and Instrumentation, Cryogenic Plant
Total Research Experience	40 Years
Address Residential	17/1-B, Satchasi Para Road, Cossipore, Kolkata-700002
Email ID	Subimal123@gmail.com
E mail ID alternate	
Phone No.	+91 9831264844
Area you would be comfortable to review papers for Ind. J. Cryogenics	Superconducting Magnet Cryogenic plant and Instrumentation

Highlight of the scientific achievements

1. Outstanding Service Award from Indian Nuclear Society
2. Group achievement Award for Superconducting Cyclotron
3. Group achievement award for Superconducting Magnet of K-500 Superconducting Cyclotron.

Sahoo R. K.

Name	Prof. Sahoo Ranjit Kumar
Date of Birth	December 1956
LM No.	651
Date/Year of joining ICC	2000
Life Member / Fellow	Life Member
Affiliation	NIT Rourkela
Position Held at the time of retirement	
Address Official	
Expertise	Cryogenics
Total Research Experience	
Address Residential	Flat No. 101, Saraswati Residency, Pokhanput, Bhubaneswar – 751020 (Odisha)
Email ID	rksahoonitr@gmail.com
E mail ID alternate	rksahoonitr@gmail.com
Phone No.	9437144721
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

1. Invited lectures 14
2. List of Research Publications (a) International Journal 73, (b) Book Chapters 03, (c) International/National Conference 59, (d) Research monogram/Report 09, (e) Patents 02
3. Research Guidance (a) Doctoral Level 17+1*, (b) M. Tech. (Research) 03, (c) M.Tech./B.Tech. 30+ Total 21, (d) Dissertations (Ph. D./ M.Tech. (Res) Evaluated 28 Total 28
4. Sponsored Research Projects and Consultancy (a) Sponsored Research Projects 10, (b) Consultancy 02 Total 12.

Sandilya Pavitra

Name	Sandilya Pavitra
Date of Birth	July 1968
LM No.	548
Date/Year of joining ICC	
Life Member / Fellow	Life Member
Affiliation	Cryogenic Engineering Centre, IIT Kharagpur
Position Held at the time of retirement	
Address Official	Cryogenic Engineering Centre, IIT Kharagpur, Kharagpur - 721302
Expertise	Industrial gas separation, Cryogenic energy storage and recovery, Process intensification, Carbon capture, Storage and transport of cryogenic liquids
Total Research Experience	More than 25 years
Address Residential	Pocket 40, Flat No. 145 (Second Floor), Chittaranjan Park, New Delhi – 110019
Email ID	pavit@cryo.iitkgp.ac.in
E mail ID alternate	profpsandilya@gmail.com
Phone No.	7501384731
Area you would be comfortable to review papers for Ind. J. Cryo	Industrial gas separation, Cryogenic energy storage and recovery, Process intensification, Carbon capture, Storage and transport of cryogenic liquids

Highlight of the scientific achievements

1. Teaching and research experience of more than 25 years at BITS – Pilani and IIT Kharagpur
2. Have been carrying out research on cryogenic carbon capture, storage and transfer of liquid cryogens, cryogenic energy storage.
3. Have been guiding post graduate students and research scholars
4. Have been publishing papers in various national and international scientific journals
5. Have been presenting papers in various national and international conferences/ symposia
6. Have been serving reviewer for national and international journals
7. Life Member of Indian Cryogenic Council and Indian Institute of Chemical Engineers

Sarangi S. K.

Name	Prof. Sunil Kr Sarangi
Date of Birth	January 1949
LM No.	LM137
Date/Year of joining ICC	1977
Life Member / Fellow	Life Fellow
Affiliation	Academic Advisor, C V Raman Global University, Bhubaneswar
Position Held at the time of retirement	Professor of Cryogenic Engineering, IIT Kharagpur and Director NIT Rourkela
Address Official	Prof Sunil Kr Sarangi, Academic Advisor, C V Raman Global University, Mahura, Janla, Bhubaneswar 752054
Expertise	Cryogenic refrigeration and liquefaction, Closed cycle cryocoolers, Heat exchangers, Expansion turbine
Total Research Experience	55 years
Address Residential	Flat 110, Aryalaya Apartment, Nuasahi, Nayapalli, Bhubaneswar 751012
Email ID	sunilkrsarangi@gmail.com
E mail ID alternate	
Phone No.	9437041081
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenic refrigeration, liquefaction systems, Closed cycle cryocoolers, Heat Exchangers, Expansion turbines

Highlight of the scientific achievements

Professor Sunil Kumar Sarangi, a fellow of the National Academy of Engineering, served as Professor of Cryogenic Engineering at IIT Kharagpur and superannuated in 2014. At IIT, he set up laboratories for study of cryogenic heat exchangers, compression and expansion machines and computer aided process design. Several of his doctoral students are holding senior faculty and scientific positions at leading institutes of India: NIT Rourkela, IITs at Kharagpur, Madras, Roorkee and Dhanbad, ISRO and BARC. In recognition of his contribution to Cryogenic Engineering education, the Indian National Academy of Engineering has given him its "Outstanding Teacher" award of 2016. The Indian Cryogenics Council has also honoured him with "Life Time Achievement" Award 2017. His alma mater IIT Kharagpur has bestowed on him its "Distinguished Alumnus Award 2022". Professor Sarangi has been elected as ISSE Honorary Fellow - 2020 by the Indian Society of Systems for Science & Engineering, and has been bestowed with the "Eminent Engineer Award, 2023" by the Institution of Engineers, India.

Sarkar S.C.

Name	Prof/Dr Swapan Chandra Sarkar
Date of Birth	1959
LM No.	LM-139
Date/Year of joining ICC	1985
Life Member / Fellow	Life Fellow
Affiliation	
Position Held at the time of retirement	Director
Address Official	Centre for Rural & Cryogenic Technologies, Jadavpur University, Kolkata-700032, India
Expertise	Chemical Engineering, Fuel Technology, Cryogenic Engineering
Total Research Experience	Over 35 years of research and teaching experience in cryogenics, fuel and chemical engineering.
Address Residential	Laksmi Narayan Colony, Nabapally, Barasat, Kolkata-700126
Email ID	swapansarkar1959@yahoo.in
E mail ID alternate	swapanbishnupur1959@gmail.com
Phone No.	+91-9830828255
Area you would be comfortable to review papers for Ind. J. Cryogenics	Fuel technology, gas separation, purification, heat transfer, refrigeration, cryogenic engineering

Highlight of the scientific /academic achievements

Prof/Dr Swapan Chandra Sarkar has made a significant contribution to the field of Cryogenic technologies, Fuel technologies, and Chemical engineering, both in research and teaching for the last three decades, including visiting faculty of Chemical Technology, Calcutta University. Executed Several government-funded R&D projects in Cryogenic and allied areas,Indo-UK projects on the cold food chain. guided doctorate students, authored textbooks, and edited a volume, CRYOGAS -2001. He had been to **the Energy Laboratory, Massachusetts Institute of Technology, USA, in 1996**. He **chaired the session onLiquefaction and Separation of Gases** at the 24th International Congress of Refrigeration-2015 at ***Yokohama, Japan*** of IIR -France and actively participated in the ICEC ICMC-2018 at Oxford University and the ICEC ICMC-2024 at CERN-Geneva. Sarkar has the distinction of hands-on experience in working with Prof Akshayananda Bose, the founder of the Indian Cryogenics Council, for more than a decade. Sarkar developed several prototypes/materials/technologies such as cryogenic valves, regenerator (heat exchanger) cryosurgical probes, activated carbon, cryogenic Dewar, copper block casting with embedded copper tubes using liquid nitrogen in a foundry in Shyamnagar, Adsorption-desorption refrigeration cycle, Indigenous air/nitrogen liquefier 7 liter/hr based-on-reverse Stirling cycle, warehouse for sesame ripening by cryo gas at Arambag, biofuel etc...

Saxena R. B.

Name	Mr. Saxena Rajan Babu
Date of Birth	20 June, 1949
LM No.	276
Date/Year of joining ICC	1975
Life Member / Fellow	Life Member
Affiliation	EX National Physical Laboratory New Delhi
Position Held	Chief Scientist, Superconductivity and Cryogenics, Head PMEat National Physical Laboratory, Technology Development Board of DST as Consultant Scientist for Projects Coordination (Feb. 2016 to March 2018)
Address Official	Nil (Retired from NPL in 2009)
Expertise	Cryogenics and Cryogenic Technology, Superconducting Magnets
Total Research Experience	~ 39 Years
Address Residential	605, Maulsari Tower, Srishti Society, Ahinsa Khan 1, Indirapuram, Ghaziabad, U.P. 201014
Email ID	rbsaxena50@gmail.com
E mail ID alternate	rbsaxena50@gmail.com
Phone No.	+91 9810334804 0120- 4298192
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics equipment's, J.T. & Closed Cycle Cryo- coolers, LN2 and LHe cryostats, Nitrogen Liquefiers.

Highlight of the scientific achievements

Mr. Saxena is the "Life member" of the ICC since 1975. He has spent over 39 active years in the field of Mossbauer Spectroscopy, Cryogenic Technology; Cryo-surgery equipments for Eye, ENT and Dermatology; 20 litres Liquid Nitrogen Containers for Artificial Insemination of cows; J.T. Cryo-coolers for Missile Guidance Systems, Stirling Cycle based Liquid Nitrogen Liquefier and Superconducting Magnets and LHe Cryostats. He built several superconducting magnet systems of 7 T and 11 Tesla SC magnet indigenously. After retirement he spent 2 years at Technology Development Board of DST as Consultant Scientist for Projects Coordination. He had earlier reviewed papers for "Ind. J. Cryogenics". He is presently the President of Former Scientists Forum of CSIR-NPL.

Saxena Y. C.

Name	Prof. Saxena Yogesh Chandra
Date of Birth	September 1945
LM No.	342
Date/Year of joining ICC	2006
Life Member / Fellow	Life Member
Affiliation	Retired-Institute for Plasma Research, Bhat, Gandhinagar-382248
Position Held	
Address Official	Retired from IPR Gandhinagar, Gujarat
Expertise	Cryogenics, Superconductivity
Total Research Experience	
Address Residential	F-53, Galaxy Towers, Bodakdev, Ahmedabad -380054 (Gujarat)
Email ID	yogesh.saxena@gmail.com
E mail ID alternate	yc_saxena@yahoo.com
Phone No.	+91 8511640983
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics Superconductivity

Highlight of scientific achievements

Established cryogenic facility (helium Refrigerator/liquefier + LN2 storage and distribution) as part of the facility for SST-1 Tokamak at Institute for Plasma Physics. Designed, fabricated and operated Superconducting magnets and current leads for SST-1 Tokamak.

Sen Vikram

Name	Dr. Vikram Sen
Date of Birth	August 1977
LM No.	LM-972
Date/Year of joining ICC	06/02/2025
Life Member / Fellow	Life Member
Affiliation	Assistant Professor, S. M. College, T. M. B. U. Bhagalpur, Bihar
Position Held at the time of retirement	NA
Address Official	Department of Physics, S. M. College, Bhagalpur-812001, Bihar
Expertise	Solid State Physics, Materials Science and Low Temperature Physics
Total Research Experience	18 Years
Address Residential	C/O Prof. B. P. Singh, Adampur Chowk, Bhagalpur-812001, Bihar
Email ID	vikram.nalanda@gmail.com
E mail ID alternate	vikram.iitr@gmail.com
Phone No.	9818709460
Area you would be comfortable to review papers for Ind. J. Cryogenics	Yes

Highlight of the scientific achievements

Worked on CMR and superconducting materials and published papers in reputed international journals. The work also involves low temperature measurements such as low temperature resistivity and thermal measurements like thermopower and heat capacity.

Shah C. J.

Name	Mr. Shah Chirag Jayantilal
Date of Birth	May 1972
LM No.	759
Date/Year of joining ICC	214
Life Member / Fellow	Life Member
Affiliation	Gujarat Technological University, Ahmedabad
Position Held at the time of retirement	
Address Official	Gujarat Technological University, Ahmedabad
Expertise	Superconductivity
Total Research Experience	
Address Residential	102, Green Villa Bliss, Behind Sun Embark Building, Near Astral Oxygen Pack, SG Highway, Ahmedabad – 380061
Email ID	chiragjshah@gmail.com
E mail ID alternate	chiragjshah@rediffmail.com
Phone No.	9426526465
Area you would be comfortable to review papers for Ind. J. Cryo	Superconductivity

Highlight of the scientific achievements

None

STIRLING
STIRLING CRYOGENICS INDIA PVT. LTD.

FABRUM.

Brief History

Stirling Cryogenics India Pvt Ltd began its journey in 1955 under the brand name Philips India Limited, marking the start of its first commercial production. For an impressive 47 years, we operated under the brand name of Philips India Limited, building a solid reputation for quality and reliability.

In 2002, a seamless transition took place, transferring the entire assets, liabilities, customer base, and dedicated employee workforce to Stirling Cryogenics India. This smooth transition not only preserved our legacy but also set the stage for further growth and innovation.

Stirling Cryogenics India Pvt Ltd has 600+ installations across India. Our commitment to excellence and adaptation to market needs positions us as a Leader in cryogenics technology, dedicated to delivering reliable, bespoke solutions.

OUR PRODUCTS

Cryocooler PTC330

Cryocooler PTC1000

CompAIR Compressor

Compact LN2 System

Nitrogen Generator

Plate Heat Exchanger

Air Receiver Tank

Water Chillers

Filters

A FEW HAPPY NAMES FROM A LIST

Contact Us:

STIRLING CRYOGENICS INDIA PVT LTD
Corp. Office: E-43, Ground Floor, Sector-63, Noida-201301
Regd. Office: 139-A/2, Antriksh Bhawan, 22-Kasturba Gandhi Marg, Connaught Place, New Delhi-110001
Works: Plot No. 2, Gali No. 14, Hanuman Mandir Pushta Road, Near Sarni Gas Agency, Chotpur, Noida, Gautam Budh Nagar, U.P. 201307 India
+91-7042492969; +91-7042492976
support@stirlingcryogenics.co.in
www.stirlingcryogenics.co.in

Quantum Design
INDIA

Quantum Design: MPMS 3 Squid Magnetometer
Temperature Range: 1.8K - 400K
Magnetic Field: ±7T

Quantum Design: PPMS DynaCool (Cryogen Free)
Temperature Range: 1.8K - 400K
Magnetic Field: ±14T

Quantum Design: PPMS VersaLab (Cryogen Free)
Temperature Range: 50K - 400K
Magnetic Field: ±3T

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An Open-Architecture, Low Temperature Measurement System

Quantum Design: OptiCool
Low Vibration: <10nm peak to peak
Temperature Range: 1.7K to 350K
7T Split-Coil Conical Magnet
Automated Temperature & Magnet Control

Fully integrated cryogenic characterization system,
Includes MeasureReadyM81-SSM synchronous source measure system, Janis Cryostat , Temp controller, PC with MeasureLINK for automating entire experiments

Lake Shore CRYOTRONICS
ADVANCING SCIENCE

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Cryogenic probe stations
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Cryogenic sensors, monitors, and controllers.
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FastHall measurement in PPMS

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Up to 180mm²/minute (resolution dependent)
Compact Size

Quantum Design India Pvt Ltd.
Tel: +91-22-27781011/12/13
Email: info@qd-india.com

Shah Nitin Dineshkumar

Name	Mr. Shah Nitin Dineshkumar
Date of Birth	January 1980
LM No.	603
Date/Year of joining ICC	2011
Life Member / Fellow	Life Member
Affiliation	ITER-India (Institute for Plasma Research)
Position Held at the time of retirement	Not retired yet (presently Scientific Officer-G)
Address Official	ITER-India, Block-A, Sangath Skyz IPL, Bhat-Koteshwar Road, Koteshwar Gandhinagar – 382 424, Gujarat, India.
Expertise	Large scale helium and nitrogen cryogenics, Cryolines, Cryodistribution System for Fusion Machines
Total Research Experience	~22 Years
Address Residential	601 Saral Sky Suites, Chandkheda, Ahmedabad
Email ID	ndshah@iterindia.in
E mail ID alternate	ndshah@ipr.res.in
Phone No.	Office: +91 79 2326 9541 Mobile: +91 98259 33956
Area you would be comfortable to review papers for Ind. J. Cryo	Yes

Highlight of the scientific achievements

I am M. Tech. in Mechanical Engineering from SVNIT, Surat. In the beginning of my career (2003-2006), I was involved in miscellenious design and fabrication works as well as operation and maintenance of helium cryoplant and liquid nitrogen distribution system at IPR Gandhinagar. When joined in ITER team (~2007), I was involved in conceptual and detailed design of ITER cryolines and warmlines as well as cryodistribution system. I had major contribution in development of closed loop 80K helium system and open loop 4.5K helium system at ITER-India cryogenics lab. I was also involved with major responsibilities in ITER prototype cryoline design, manufacturing and its warm and cold acceptance testing at ITER-India cryo lab. I also worked at ITER Organization, France for 5 years as a Technical Responsible Officer. Presently, I am heading ITER cryogenic team at ITER-India and looking after ongoing design / manufacturing / site activities related to ITER cryolines, warmlines and cryo-distribution system as well as involved in some of the non-technical responsibilities as a member/chair of few committees. I am also first author of patent jointly owned by my collegaues at ITER-India and M/s Inox India Limited. I have 8 publications as a first author and more than 30 as co-author.

Sharma Deepak

Name	Dr. Deepak Sharma
Date of Birth	December 1990
LM No.	955
Date/Year of joining ICC	December 27, 2024
Life Member / Fellow	Life Membership
Affiliation	EX CSIR National Physical Laboratory, New Delhi
Position Held at the time of retirement	CSIR SRF
Address Official	NIL
Expertise	Low Temperature Physics, Cryogenics, Topological Insulator
Total Research Experience	
Address Residential	Deepak Villa, Near SBI Bank, VPO Kadera, Tehsil Kekri, Distt. Ajmer (Rajasthan), India. Pincode: 305405
Email ID	sharmadeepak1111@gmail.com
E mail ID alternate	sharmadeepak1111@outlook.com
Phone No.	8209375981
Area you would be comfortable to review papers for Ind. J. Cryo	Magneto Trasport Measurement, Topological Insulator, Raman Spectroscopy

Highlight of the scientific achievements

I have worked as JRF at CSIR CEERI, Pilani and published one journal research paper. Next, I have worked as CSIR JRF at CSIR NPL, India and published one National Conference paper as well as one International Conference Paper. Next, I have worked as CSIR SRF at CSIR NPL, India and published Three SCI Journal Paper as well as Two International Conference Papers.

Sharma Rajeev

Name	Mr. Rajeev Sharma
Date of Birth	August, 1980
LM No.	923
Date/Year of joining ICC	2023
Life Member / Fellow	Life Member
Affiliation	National Physical Laboratory (NPL), New Delhi-1210012
Position Held	Senior Technical Officer – 3, Cryogenics Plants, NPL
Address Official	Cryogenics Plants, CSIR - National Physical Laboratory Dr. K.S. Krishnan Marg, New Delhi-110012
Expertise	Cryogenics and Superconductivity and Humidity
Total Research Experience	~ 25 Years
Address Residential	DRSA- 30, NPL Colony, New Rajender Nagar, New Delhi-60
Email ID	sharmar3.nplindia@csir.res.in
E mail ID alternate	rajeev8560@gmail.com
Phone No.	+911145609483 +91 9650221175
Area you would be comfortable to review papers for Ind. J. Cryogenics	Yes

Highlight of the scientific achievements

• **Cryogenic Plant Management:** Over 25 years in operating and maintaining liquid helium (LHe**)** Plant and liquid nitrogen (LN_2) plant, including current role overseeing the cryogenics plants at **NPL**

• **Advanced Equipment Handling:** Proficiency with high-end, low-temperature measurement systems like **MPMS** (Magnetic Property Measurement System) and **PPMS** (Physical Property Measurement System), as well as general **cryocoolers** and **cryostats**.

• **Cryostat Design & Fabrication:** "Rich experience" in the design and fabrication of low-temperature cryostats, which is a highly sought-after, niche skill combining theoretical understanding with practical engineering.

• **High-Vacuum Technology & Thin Film Systems:** Good understanding of various **vacuum pumps** (e.g., turbopumps, rotary pumps, scroll pumps) and **gauges** (e.g., Pirani, cold cathode) used in **UHV chambers**. Familiarity with systems for **PLD** and **Sputtering**, which are fundamental to thin-film deposition and material research **Community Leadership:** Active involvement as an **EC member of the ICC-North Zone**

Sharma Rajiv

Name	Dr. Sharma Rajiv
Date of Birth	December 1971
LM No.	801
Date/Year of joining ICC	2016
Life Member / Fellow	Life Member
Affiliation	Institute for Plasma Research, Gandhinagar, Gujarat
Position Held at the time of retirement	
Address Official	IPR, Near Indira Bridge, Bhat Village, Gandhinagar, Gujarat – 382428
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	rajivs@ipr.res.in
E mail ID alternate	rajiv.sharma710@gmail.com
Phone No.	9426365395
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

My scientific accomplishments stem from innovation, especially the development of dissimilar materials joints of GFRP composites and metals at 4.2 K for superconducting fusion machine. This development overcomes the issues of unavailability, dependency on imported items, long delivery, high cost and reliability. This fulfils the existing demand and future need of indigenous fusion machine. Other achievements comprise my core capabilities and deep expertise like low temperature epoxy joints, sealing techniques, GFRP for high neutron resistance, pressure gas vessels hydro, pneumatic, NDT, cryogenics safety, GFRP characteristic and helium leak testing at cryo temp, thermal insulation and many developments for cryogenic services.

Sharma R. G.

Name	Dr. Sharma Ram Gopal
Date of Birth	August 1941
LM No.	278
Date/Year of joining ICC	1975
Life Member / Fellow	Foundation Fellow since 1975
Affiliation	EX- National Physical Laboratory (NPL) New Delhi -110012
Position Held at the time of retirement	Deputy Director & Head Division of Superconductivity and Cryogenics
Address Official	Nil (Retired from NPL in 2001)
Expertise	Low Temperature Physics, Cryogenics and Superconductivity- Materials & Magnets
Total Research Experience	~ 62 Years
Address Residential	C-106 Inderpuri, New Delhi-110012
Email ID	rgsharmaicc@ gmail,com
E mail ID alternate	rgsharma75@gmail.com
Phone No.	+91 9871014411 011- 425458861
Area you would be comfortable to review papers for Ind. J. Cryogenics	Superconducting materials and SC magnet applications

Highlight of the scientific achievements

Started low temperature research in 1964 at National Physical Lab. (NPL), New Delhi. Retired in 2001 as Deputy Director & Head Div. of Superconductivity and Cryogenics. In 2001 joined Nuclear Science Centre (now IUAC) and continued till Dec. 2024. I remained involved in various projects including the last one as "Adviser to MeitY MRI Magnet Project". Between 2002 and 2009 I was a visiting professor at Legnaro National Lab. (INFN), Italy and guided research on superconducting Nb_3Sn RF cavities. Guided 10 students for Ph.D. degree in India and Italy.

I was selected as the "Foundation Fellow" of the ICC in 1975, the year ICC was born and remained involved in ICC activities like the Chief Editor IJC, EC member and presently the President ICC. In all, I have spent 62 years of my life in low temp. and ultra-low temp. (sub-milli Kelvin) studies, superconducting materials, and magnet-based systems, all first time in India. At NPL we also built the 11 Tesla SC magnets in 1990 which continues to be an Indian record till date. My book on Superconductivity is rated by CNN, Forbes & and Inc, Book Authority at no. 4 under "20 Best Superconductivity Books of all time" globally. Presently, I am preparing the III edition of the book.

Shinde A.A.

Name	Mr. Shinde Avinash Arun
Date of Birth	April 1981
LM No.	887
Date/Year of joining ICC	2021
Life Member / Fellow	Life Member
Affiliation	Tata Institute of Fundamental Research, Mumbai
Position Held at the time of retirement	
Address Official	CWK, TIFR, Homi Bhabha Road, Navy Nagar, Colaba, Mumbai – 400005
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	avinash@tifr.res.in
E mail ID alternate	avitifr.inbox@gmail.com
Phone No.	9860916204
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

I worked at PLF TIFR as scientific officer and was involved in running and maintenance of helium liquefier (LINDE TCF 50), presented papers in ICC and InPAC conferences

Shivagan D.D.

Name	Dr. Dilip Dhondiram Shivagan
Date of Birth	August 1975
LM No.	767
Date/Year of joining ICC	2012
Life Member / Fellow	Life Member
Affiliation	CSIR-National Physical Laboratory, New Delhi 110012
Position Held at the time of retirement	Senior Principal Scientist and Head, Temperature and Humidity Metrology
Address Official	128, Temperature and Humidity Metrology, Apex Metrology Laboratory, CSIR-National Physical Laboratory, Dr. K. S. Krishnan Marg, New Delhi 110012
Expertise	Temperature and Humidity Metrology, Quantum Metrology, Superconductivity, Low Temperature Physics, Cryogenics
Total Research Experience	28 Years
Address Residential	TRSA-55, NPL Colony, New Rajinder Nagar, New Delhi 110060
Email ID	shivagand.nplindia@csir.res.in
E mail ID alternate	dilipshivagan@gmail.com
Phone No.	+91-9718446240, +91-11-4709 1379/1693
Area you would be comfortable to review papers for Ind. J. Cryo	Temperature and Humidity Metrology, Quantum Metrology, Superconductivity, Low Temperature Physics, Cryogenics

Highlight of the scientific achievements

Dr Dilip D. Shivagan has been working at the CSIR-National Physical Laboratory, New Delhi, for the last 15 years, and is currently a Senior Principal Scientist and Head of Temperature and Humidity Metrology. His present research interests include: Quantum Metrology, Developing Acoustic Gas Thermometry for the realization of Boltzmann Constant-based new kelvin, Metal-Carbon eutectic fixed points (Fe-C, Co-C, Ni-C, Pd-C) for thermocouples and blackbodies for high-temperature radiation thermometry up to 3000 ^{o}C. Humidity, dew/frost and Moisture measurements. He represents NPLI at APMP TCT Thermometry. He is tively involved in NABL, Legal Metrology and BIS Committees. He is a Fellow of the Metrology Society of India (MSI), Honorary Faculty at AcSIR, supervised 5 Ph.D. students, 4 major Projects and was CSIR-Raman Research Fellow at NPL UK 2017. Before joining NPL, his professional Experience includes; Scientist-SD, ITER-India, Institute for Plasma Research, Gandhinagar- "Cryolines and Cryodistribution for ITER" (2008-2009), Visiting Fellow, TIFR, Mumbai...

Shivaprakash P

Name	Dr. Shivaprakash P
Date of Birth	June 1989
LM No.	840
Date/Year of joining ICC	NA
Life Member / Fellow	Life Member
Affiliation	Keimyung University
Position Held	
Address Official	
Expertise	Cryogenics; Low Temperature Physics
Total Research Experience	
Address Residential	Shock wave and Gas Dynamics Laboratory, Department of Mechanical Engineering, Keimyung University, South Korea
Email ID	siva.siva820@gmail.com
E mail ID alternate	shiva.kutty820@gmail.com
Phone No.	6383358081
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics; Low Temperature Physics

Highlight of the scientific achievements

I have published in more than 100 reputed journals.

Shivaratri Shankar

Name	Mr. Shankar Shivaratri
Date of Birth	10/02/1970
LM No.	LM-903
Date/Year of joining ICC	01.09.2022
Life Member / Fellow	Life Member
Affiliation	NA
Position Held at the time of retirement	Not retired. Working with DNV Business Assurance India Pvt Ltd
Address Official	DNV Business Assurance India Pvt. Ltd. # 202, Babukan Millenium center, Rajbhavan Road, Somajiguda, Hyderabad -50082
Expertise	IBR, PESO competent person. Design Appraisal & inspectio of Cryogenic and non-cryogen vessels. Product Certification Professional for CE/UKCA various directives.
Total Research Experience	Not in research
Address Residential	B604, VSR Celestial tower, Gajularamaram, Jeedimetla, Hyderabad 500055. Telangana
Email ID	shivaratritrg@gmail.com; shankar.shivaratri@dnv.com
E mail ID alternate	Shankar.shivaratri@dnv.com
Phone No.	9346970604
Area you would be comfortable to review papers for Ind. J. Cryogenics	Yes

Highlight of the scientific achievements

Senior Inspection & Product Assurance Manager with expertise in product certification services, including CE Marking, UKCA Marking, and welding system certifications like ISO 3834 and EN 15085. Holds qualifications as an International Welding Technologist (IWT) and ISO 9001 Auditor, and is recognized as a Competent Person under IBR and PESO. Experienced in managing sales and operations for certification projects, ensuring compliance with international standards and regulatory requirements. Known for strong technical knowledge, leadership in quality assurance, and client-focused solutions.

Sijo K. K.

Name	Mr. Sijo K.K.
Date of Birth	March 1987
LM No.	874
Date/Year of joining ICC	2021
Life Member / Fellow	Life Member
Affiliation	
Position Held at the time of retirement	
Address Official	Govt. Polytechnical College, Chelakkara, Thrissur District, Kerala
Expertise	Cryogenics
Total Research Experience	
Address Residential	Kuttikattil House, Kundannur P.O., Attathra, Thrissur Kerala – 680590
Email ID	sijokk87@gmail.com
E mail ID alternate	easonigis@gmail.com
Phone No.	9633400162
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Free Piston Stirling Refrigerator, Beta type Stirling Cooler and Split type stirling cooler design and analysis.

Singh G. S. P.

Name	Mr. Singh Gauri Shankar Prasad
Date of Birth	December 1963
LM No.	886
Date/Year of joining ICC	2021
Life Member / Fellow	Life Member
Affiliation	Retired from Indian Oil Corporation Limited
Position Held at the time of retirement	
Address Official	N.A.
Expertise	Cryogenics
Total Research Experience	
Address Residential	Flat No. 2004, 20th Floor, Yorkshire Tower C, Mahagun Meadows, Sector-150, Noida (UP)201310
Email ID	gspsingh@gmail.com
E mail ID alternate	singhgsp28@gmail.com
Phone No.	9.19999E+11
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Design and development of LMO tankers, ISO Tanks for LMO/LNG/LN2 and on-board LNG Fuel Tanks for Heavy Duty Vehicles.

Singh K. P.

Name	Dr. Premjit Singh Kongkham
Date of Birth	February 1977
LM No.	LM 1147
Date/Year of joining ICC	7 Sept 2025
Life Member / Fellow	Life Member
Affiliation	Institute for Plasma Research, Bhat, Gandhinagar 382 428
Position Held at the time of retirement	NA
Address Official	Institute for Plasma Research, Bhat, Gandhinagar 382428
Expertise	Synthesis and characterization of High Tc superconductors
Total Research Experience	More than 15 years
Address Residential	C2/207,Satyamev Chhavani Icon, Sughad, Gandhinagar Gujarat 382424
Email ID	kpsingh@ipr.res.in
E mail ID alternate	kpremjit@gmail.com
Phone No.	07923962107, 09714591222
Area you would be comfortable to review papers for Ind. J. Cryogenics	No

Highlight of the scientific achievements

The scientific work includes the synthesis and physical property characterization of pure MgB_2, nanoparticle-doped MgB_2 superconductors, and AlB_2-type compounds. Gained experience in the synthesis and characterization of high-Tc superconductors such as YBCO, BSCCO, and ruthenium-based superconducting systems. Also, having expertise in operating high-vacuum experimental setups and performing accurate four-probe electrical resistivity measurements using closed-cycle helium cryogenic systems. In addition, optical microscopy, X-ray diffraction (XRD), and scanning electron microscopy with energy-dispersive spectroscopy (SEM-EDS) have been effectively employed for microstructural analysis and qualitative evaluation of material homogeneity.

Singh Rajender

Name	Prof. Rajender Singh
Date of Birth	October 1951
LM No.	325
Date/Year of joining ICC	1982
Life Member / Fellow	Fellow
Affiliation	University of Hyderabad
Position Held	Professor & Dean
Address Official	School of Physics, University of Hyderabad, HCU Road, Hyderabad-500046
Expertise	Cryogenics, Low Temperature Physics and Superconductivity
Total Research Experience	45 Years
Address Residential	156, Doyens Township, Serilingampally, Hyderabad - 500019 (Telengana)
Email ID	rsinghsp@gmail.com
E mail ID alternate	
Phone No.	8008891232
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics, Low Temperature Physics, Superconductivity

Highlight of scientific achievements

The research laboratory for the study of electrical, thermal and acoustic properties of solids in the Low temperature range 4-300 K established by obtaining funds from various funding agencies like DST, DAE, UGC etc Low temperature range is covered by liquid helium or closed cycle refrigerators procured under various research projects. Several research equipment was procured for the research laboratory under these projects. Low temperature facilities including Helium liquefier and nitrogen liquefier were established.

Singh V. K.

Name	Mr. Singh Vivek Kumar
Date of Birth	November 1984
LM No.	886
Date/Year of joining ICC	2021
Life Member / Fellow	Life Member
Affiliation	Retired from Indian Oil Corporation Limited and Space Application Centre, ISRO, Ahmedabad
Position Held at the time of retirement	
Address Official	Scientist/Engineer, Thermal Engineering Division, Space Application Centre, ISRO, Ahmedabad
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	singhvivek84@gmail.com
E mail ID alternate	singhvivek@sac.isro.gov.in
Phone No.	8511462495
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Stirling Type Pulse Tube Cryocoolers, Adiabatic Demagnetization Recreator, Heat Pipes, Heat switches, Phase Change Materials, Satellite Thermal Control.

Srinath S.

Name	Prof. S. Srinath
Date of Birth	June 1969
LM No.	LM-761
Date/Year of joining ICC	Jan 2014
Life Member / Fellow	Life Member
Affiliation	School of Physics, University of Hyderabad, Hyderabad, Telangana
Position Held at the time of retirement	I am currently working as a Professor in School of Physics
Address Official	School of Physics, University of Hyderabad, Hyderabad, Telangana
Expertise	Experimental Condensed Matter Physics, Magnetism, Spintronics and Multiferroics, Low Temperature Physics
Total Research Experience	~ 33 years
Address Residential	
Email ID	srinath@uohyd.ac.in
E mail ID alternate	Srinaths10@gmail.com
Phone No.	040-23134330 (O); 9963268640 (M)
Area you would be comfortable to review papers for Ind. J. Cryo	Yes

Highlight of the scientific achievements

Prof. S. Srinath is an Experimental Condensed Matter Physicist. He has guided 7 and co-supervised 4 Ph.D. students, mentored 4 post-docs and is currently guiding 4 Ph.D. students. Research interests include Phase transitions, critical phenomena, magneto-electric coupling, magnetization reversal, exchange bias, magnetic anisotropy, Magnetocaloric effect, transport and magneto-transport properties of Multiferroics, Spintronics and Nanomaterials. He has published more than 140 papers in journals of international repute with the h-index of 35, i-10 index of 67 and total citations of more than 3700.

Other Contributions: Dr. Srinath is serving as Chairman of University Cryogenics committee. He was also Director of IQAC, University of Hyderabad during 2020-2022. Dr. Srinath has delivered talks at several National and International Conferences. Dr. Srinath is a life member of Indian Physics Association, Neutron Scattering Society of America, Magnetics Society of India, Indian Cryogenics Society, K.V. Rao Scientific Society and Indian Physics Teachers Association. He is serving as a Referee for several International Physics Journals.

Awards and Honors: Elected as Fellow of Telangana Academy of Sciences (2016), BOS member of several Physics departments.

Srinivasan K. V.

Name	Dr. Srinivasan Kadayam Venkatraman
Date of Birth	May 1970
LM No.	559
Date/Year of joining ICC	2007
Life Member / Fellow	Life Member
Affiliation	Tata Institute of Fundamental Research, Mumbai
Position Held at the time of retirement	
Address Official	
Expertise	Cryogenics
Total Research Experience	
Address Residential	
Email ID	kvsrini2006@gmail.com
E mail ID alternate	kvsrini@tifr.res.in
Phone No.	9987260952
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Cryocooler, Liquefiers, PLC, Industrial Process Automation and Additive Manufacturing.

Srinivasan K.

Name	Srinivasan Kasthurirengan
Date of Birth	July 1948
LM No.	LM540
Date/Year of joining ICC	2006
LifeMember/ Fellow	Life Member
Affiliation	Centerfor Cryogenic Technology IISc, Bangalore 560012
Position Held at the time of retirement	Professor
Address Official	Center for Cryogenic Technology IISc, Bangalore 560012
Expertise	Cryogenic systems, Cryocoolers, Cryogenic Instrumentation
Total Research Experience	47 Years
Address Residential	178, VHBCS layout, 2nd Main, 3rd Cross, West of Chord Road, Bangalore 560086
Email ID	fantasrini@gmail.com
Email ID alternate	ksrinivasan@iisc.ac.in
Phone No.	Mob: 8971601077 Res. No:080-23493130
Area you would be comfortable to review papers for Ind. J. Cryo.	Yes.

Highlight of the scientific achievements

Dr. Srinivasan Kasthurirengan was born on 12th July 1948. He had his educationin St. Joseph's College, Trichy till he completed his Masters in Physics. He started his career after completing his Ph.D degree in Physics from TIFR, Mumbai in 1975. Subsequently he joined IISc, Bangalore and served as a Cryogenic Physicist at the Centre for Cryogenic Technology, Indian Institute of Science, Bangalore. He has more than 45 years of research experience in cryogenic engineering as a scientist. During his career, he has executed several R&D and consultancy projects funded by DST, CSIR, DAE, ISRO and other non-governmental agencies.

His areas of interest are: Cryogenic Systems, Cryocoolers, Cryogenic Instrumentation, Gas Sensors, Cryosorption pumps etc. Several students have obtained their Ph.D and M.Tech degrees by working with him. He has more than 120 publications in national and international journals. Based on his contributions in the area of Cryogenics, he was awarded the "***Lifetime Achievement Award***" in October 2022 by the Indian Cryogenics Council at the National Symposium on Cryogenics (NSCS28), held at IIT, Kharagpur. He is currently serving as an offline teaching faculty in CCT, IISc, Bangalore and online teaching faculty in TKM College of Engineering, Kollam, Kerala. Also he gives guest lectures in the Talent Development Centre of IISc, at Challukere, Karnataka.

Suresh Babu M V

Name	Mr. Suresh Babu M V
Date of Birth	2 April, 1965
LM No.	515
Date/Year of joining ICC	2006
Life Member / Fellow	Life Member
Affiliation	Retired from IUAC, New Delhi
Position Held at the time of retirement	
Address Official	N.A.
Expertise	Cryogenics
Total Research Experience	
Address Residential	Manjanamkattil House, Kizhuthani, Thanissery PO, Thrissur District, Kerala – 680701
Email ID	sbabumv@gmail.com
E mail ID alternate	sbabumv@gmail.com
Phone No.	9013169246
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Stirling cycle cryogenics, Vortex tube
Note: Diploma in Mechanical Engineering.
B. Tech shown due to non-availability of option in the list

Complete Line of Cryogenic Systems Available!

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- Universal Cryocooler: *Cryogen free closed cycle cooling for continuous flow cryostats*
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- Cryogen Free Systems *(4 K, 10 K. GM, Pulse Tube)*
- Liquid Nitrogen Pour Fill Reservoir Cryostats
- Superconducting Magnet Systems
- Liquid Nitrogen Generators
- And more...

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UP-201010 India
rajesh.vijay@isotech.co.in
Tel: +91-120-4169460
www.itplindia.co.in

Know Your Heros

Suresh M S

Name	Suresh M S
Date of Birth	June 1964
LM No.	LM-765
Date/Year of joining ICC	June 2016
Life Member / Fellow	Life Member
Affiliation	Liquid Propulsion Systems Centre (LPSC), ISRO
Position Held at the time of retirement	Associate Director, LPSC & Project Director, Semicryogenic Propulsion Systems Project
Address Official	Prof. Satish Dhawan Professor, LPSC, ISRO, Valiamala, Thiruvanthapuram-695 547.
Expertise	Cryogenic Turbopumps for Liquid Rocket Engines
Total Research Experience	~38 years
Address Residential	Surya, PRA 138A, TC17/634(2) Poojappura, Thiruvanthapuram-695 012.
Email ID	mssuresh1964@gmail.com
E mail ID alternate	sure_isro@yahoo.com
Phone No.	9446483050
Area you would be comfortable to review papers for Ind. J. Cryo	Turbomachines

Highlight of the scientific achievements

Joined LPSC/ISRO in 1986 and worked in the area of high speed Turbo machines for initial 27 years. During this period the major contributions were:-

- Successful development, ground testing and qualification of the high speed Turbopumps of the 75 kN cryogenic engine for powering the cryogenic upper stage of GSLV. Specifically contributed for the development of main turbopump and two booster turbopumps.
- The most significant contribution is in the design, development, qualification and flight testing of high speed Liquid Oxygen turbopump (16000 rpm) and Liquid Hydrogen turbopump (38000 rpm) which are the major and complex subsystems of CE20 cryogenic engine. **These turbopumps are the first indigenously designed, realised and qualified turbopump for a liquid rocket engine by ISRO**. Fully involved in this major technical achievement from its initial concept stage to its qualification and successful flight testing.
- Later heading the 'Cryogenic Propulsion Engines and Stages Entity', led the team and completed the qualification of CE-20 Cryogenic Engine and C25 Stage of GSLV LVM3 vehicle and played vital role in the successful flight testing of engine and stage during GSLV-LVM3 D1 mission.

Swati Kumari

Name	Swati Kumari
Date of Birth	April 1988
LM No.	Applied
Date/Year of joining ICC	
Life Member / Fellow	
Affiliation	CSIR- National Physical Laboratory, New Delhi
Position Held at the time of retirement	Sr. Technical Officer II (Serving)
Address Official	Room No. 120, Apex metrology Building, CSIR-NPL
Expertise	Preparation & Characterization of High-Temperature Superconductors (YBCO)**.**
Total Research Experience	14 years
Address Residential	9C/6, NPL Colony
Email ID	Kumaris1.nplindia@csir.res.in
E mail ID alternate	Swatiuit64@gmail.com
Phone No.	9582609924
Area you would be comfortable to review papers for Ind. J. Cryo	High Temperature Superconductors

Highlight of the scientific achievements:

• Successfully synthesized **YBCO high-temperature superconductors** using both solid-state and chemical routes with controlled phase formation.

• Enhanced **current-carrying capacity** of YBCO by incorporating **rare-earth nano-dopants**, improving flux pinning behavior.

• Demonstrated **superconductivity confirmation** through magnetic levitation tests followed by systematic optimization of processing conditions.

• Fabricated high-density **pellets** under controlled pressure and carried out **thermal treatment protocols** to achieve desired superconducting phases.

• Measured and analyzed **critical temperature (Tc)** and **critical current density (Jc)** to evaluate performance improvements.

• Performed detailed **structural (XRD)** and **microstructural (SEM)** characterization to correlate material properties with superconducting behavior.

• Contributed toward the **development of advanced superconducting materials** with potential applications in **quantum devices, medical imaging, and transport technologies.**

Tanna Vipulkumar

Name	Prof. Tanna Vipulkumar
Date of Birth	July 1970
LM No.	553
Date/Year of joining ICC	2006
Life Member / Fellow	Life member
Affiliation	IPR, Gandhinagar, Gujarat
Position Held at the time of retirement	Professor
Address Official	Institute for Plasma Research, Near Indira Bridge, Bhat, Gandhinagar, Gujarat – 382428
Expertise	Cryogenics, low Temperature Physics, Superconductivity
Total Research Experience	
Address Residential	
Email ID	vl_tanna@yahoo.co.in
E mail ID alternate	vtan.ipr@gmail.com
Phone No.	8128405602
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics, Low Temperature Physics, Superconductivity

Highlight of the scientific achievements

Prof. Dr. Vipulkumar Tanna serves as Scientific Officer-H at the Institute for Plasma Research (IPR), Gandhinagar, India. With nearly three decades of expertise in large-scale cryogenics and superconducting magnets for tokamaks, he has significantly contributed to SST-1 and ITER projects. An active academician, he holds professorship roles at Nirma University, Pandit Deendayal Energy University, Gujarat Technological University, and Homi Bhabha National Institute (HBNI). His research focuses on cryogenics, two-phase flow, thermo-hydraulics, superconducting feeders, current leads, and fusion technologies. Currently, he leads the SST-Bharat device development, advancing India pursuit of sustainable fusion energy solutions.

Thakkar Hemin

Name	Dr. Thakkar Hemin
Date of Birth	August 1970
LM No.	598
Date/Year of joining ICC	2008
Life Member / Fellow	Life Member
Affiliation	Gujarat Technological University
Position Held at the time of retirement	
Address Official	
Expertise	Superconductivity, Cryogenics
Total Research Experience	
Address Residential	D-703, Sudarshan Pride Science City Road
Email ID	heminkumar@gmail.com
E mail ID alternate	heminkumar@gmail.com
Phone No.	9427678451
Area you would be comfortable to review papers for Ind. J. Cryo	Superconductivity, Cryogeniucs

Highlight of the scientific achievements

I am completed my Ph.D. from Gujarat Technological University in the field of solar thermal engineering. I am also working as expert in the Doctoral Progress Committee, Monarch University, Gujarat

Tharakan T Joshi

Name	T. John Tharakan
Date of Birth	May 1964
LM No.	LM594
Date/Year of joining ICC	2007
Life Member / Fellow	Life Member
Affiliation	Retired from LPSC, ISRO
Position Held at the time of retirement	Scientist/Engineer H
Address Official	Propulsion Research Group, Liquid Propulsion Systems Centre, Valiamala, Trivandrum - 695547
Expertise	Cryogenics, Fluid mechanics, Propulsion, Computational Fluid Dynamics, Combustion, Heat transfer
Total Research Experience	38 years
Address Residential	Kalieckal, Easwaran Thampi Nagar, Kallayam, Trivandrum - 695043
Email ID	tharakan12@yahoo.com
E mail ID alternate	tharakan12@gmail.com
Phone No.	9496007558
Area you would be comfortable to review papers for Ind. J. Cryo	Liquid rocket engine and stages

Highlight of the scientific achievements

I joined the Liquid Propulsion Systems Centre (LPSC) in 1987 and built a distinguished career in applied research, contributing extensively to the development of rocket systems, subsystems, and advanced test facilities at ISRO. My work spans earth storable liquid, cryogenic, semi-cryogenic, hybrid, nuclear, and electric propulsion, reflecting a broad and impactful technological footprint.

Specialising in injector spray and atomisation, I completed my doctorate from IIT Madras in 2001 and established strong expertise in spray characterisation and modelling. This led to a major contribution - significant enhancement of the specific impulse of Liquid Apogee Motor (LAM) and Attitude Orbit Control System (AOCS) injectors through the introduction of spray-based acceptance criteria. I subsequently designed and developed advanced injectors for the indigenous semi-cryogenic preburner, tripropellant and throttleable engines, and the LOX–HTPB hybrid motor.

I have played a pivotal role in establishing and operating several key laboratories and facilities at LPSC, including the Semicryo Cold Flow Test Facility, the Thermal Lab, and the Combustion Research Lab. Experiments and data generated from these facilities under my leadership have shaped ISRO's propulsion strategies and development pathways.

My contributions extend to system- and component-level modelling, extensive numerical simulations, and CFD analyses of liquid engine subsystems, test facilities, and liquid stages...

Thekkethil S. R.

Name	Dr. Thekkethil Sankar Ram
Date of Birth	March 1990
LM No.	786
Date/Year of joining ICC	2015
Life Member / Fellow	Life Member
Affiliation	Siemens Magnet Technology, Oxford
Position Held at the time of retirement	
Address Official	
Expertise	Cryogenics, Low Temperature Physics, Superconductivity
Total Research Experience	
Address Residential	Thekkethil House, Thekkumkara PO, Thrissur, Kerala – 680589
Email ID	sankarram90@gmail.com
E mail ID alternate	sankarram90@gmail.com
Phone No.	
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics, Low Temperature Physics and Superconductivity

Highlight of the scientific achievements

Part of the indigenous MRI project with IUAC, New Delhi.

Thomas R. J.

Name	Dr. Thomas Rijo Jacob
Date of Birth	May 1981
LM No.	643
Date/Year of joining ICC	2008
Life Member / Fellow	Life Member
Affiliation	TKM College of Engineering, Kollam, Kerala
Position Held at the time of retirement	N.A.
Address Official	TKM College of Engineering, Kollam, Kerala
Expertise	
Total Research Experience	
Address Residential	Bethel, Thuvayooor South P.O. Kadampanad (via), Pathanamthitta Distt. Kerala – 691552
Email ID	rijojthomas@gmail.com
E mail ID alternate	rijojthomas@tkmce.ac.in
Phone No.	9400490011
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Dr. Rijo Jacob Thomas is an Associate Professor of Mechanical Engineering at TKM College of Engineering, Kollam, Kerala, India. Dr. Rijo is a graduate in Mechanical Engineering and a postgraduate in Industrial Refrigeration and Cryogenic Engineering. He received his Ph.D. from IIT Kharagpur, India in the area of Helium Cryogenics. Dr. Rijo is specialized in the process design of large-scale cryogenic plants. He has proposed an exergy-based approach for the design of large-scale helium liquefaction plants. He has several research publications in Cryogenics and allied fields. He is a member of the Indian Cryogenic Council (ICC) and the Indian Society of Heating Refrigeration and Air Conditioning Engineers (ISHRAE). His research interests include Analysis of large-scale cryogenic plants, Helium liquefaction/refrigeration systems, Two-phase cryogenic flows and High Temperature Superconductors.

Topagi P. S.

Name	Mr. Topagi Praveen Shankar
Date of Birth	July 1990
LM No.	832
Date/Year of joining ICC	2019
Life Member / Fellow	Life Member
Affiliation	Indian Institute of Technology, Mumbai
Position Held at the time of retirement	N.A.
Address Official	IIT, Mumbai
Expertise	Cryogenics, Superconductivity
Total Research Experience	
Address Residential	
Email ID	praveentopagi@gmail.com
E mail ID alternate	praveentopagi@gmail.com
Phone No.	8850964561
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics, Superconductivity

Highlight of the scientific achievements

Presented Research papers in national and international cryogenic conferences.

Tripathi Rahul

Name	Dr. Tripathi Rahul
Date of Birth	July 1982
LM No.	970
Date/Year of joining ICC	2025
Life Member / Fellow	Life Member
Affiliation	Department of Physics, Ch. Bansi Lal University, Bhiwani (Haryana)
Position Held at present	Associate Professor
Address Official	Department of Physics, Ch. Bansi Lal University, Bhiwani (Haryana)
Expertise	Low temperature Physics, CMR material, Magnetism and supercapacitors
Total Research Experience	19 Years
Address Residential	Sec-37, Rohtak (Haryana)
Email ID	rahultripathi.phy@cblu.ac.in
E mail ID alternate	-------
Phone No.	+919896597473
Area you would be comfortable to review papers for Ind. J. Cryo	Low temperature Physics, CMR material, Magnetism and supercapacitors

Highlight of the scientific achievements

I have vast experience in the field of low-temperature transport properties of CMR materials, magnetism, and two-dimensional materials for super capacitor applications. At present, I am serving as the Chairperson of the Department of Physics, Ch. Bansi Lal University, Bhiwani (Haryana). My current research focuses on supercapacitors and electrode material for hydrogen evolution.

Ujjwal Kumar

Name	Mr. Kumar Ujjwal
Date of Birth	May 1999
LM No.	912
Date/Year of joining ICC	2022
Life Member / Fellow	Life Member
Affiliation	IIT MADRAS
Position Held	
Address Official	
Expertise	Cryogenics; Low Temperature Physics
Total Research Experience	
Address Residential	aaryazujjwal@gmail.com
Email ID	aaryazujjwal@gmail.com
E mail ID alternate	me23d017@smail.iitm.ac.in
Phone No.	9631000700
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics; Low Temperature Physics

Highlight of the scientific achievements

I am currently doing ISRO sponsored project on heat and mass transfer across the interface of partially filled LN2 tank subjected to capillary waves.

Vaghela H.

Name	Dr. Vaghela Hitensinh
Date of Birth	November 1976
LM No.	536
Date/Year of joining ICC	2010
Life Member / Fellow	Life Member
Affiliation	ITER India, IPR Gandhinagar
Position Held at the time of retirement	
Address Official	Institue for Plasma Research, Gandhinagar
Expertise	Cryogenics
Total Research Experience	
Address Residential	"Prasoon", 162/1, Sector -1B, Gandhinagar-382007
Email ID	jaihiten@gmail.com
E mail ID alternate	jaihiten@gmail.com
Phone No.	9824628887
Area you would be comfortable to review papers for Ind. J. Cryo	Cryogenics

Highlight of the scientific achievements

Contributed significantly to the ITER Cryogenic Systems through leadership in design, integration, and commissioning. Led the successful integration and commissioning of critical cryogenic systems for ITER, ensuring compliance with nuclear safety standards and project milestones. Oversaw the transition from engineering to operational readiness, resolving complex technical and integration challenges. Contributed to the development of installation and commissioning strategies for cryogenic infrastructure, enhancing system reliability and performance. Collaborated with multidisciplinary teams to deliver high-quality, safety-compliant systems supporting ITER fusion research objectives. Authored over 40 scientific papers in journals and conferences, advancing cryogenic engineering for fusion applications.

Vajpayee Arpita

Name	Dr. Vajpayee Arpita
Date of Birth	September1981
LM No.	958
Date/Year of joining ICC	December, 2024
Life Member / Fellow	Life Member
Affiliation	Dyal Singh College, University of Delhi
Position Held	Assistant Professor
Address Official	Dyal Singh College, University of Delhi, Lodhi Road, New Delhi-110003
Expertise	Superconductivity
Total Research Experience	~18 years
Address Residential	C-3/106, Yamuna Vihar, Delhi-53
Email ID	arpitaphy@gmail.com
E mail ID alternate	arpitavajpayee.physics@dsc.du.ac.in
Phone No.	9999793867
Area you would be comfortable to review papers for Ind. J. Cryo	

Highlight of the scientific achievements

• Conducted extensive research on MgB_2 and Fe-based superconductors, focusing on synthesis, structure–property relationships, and performance enhancement through nano-particle doping and elemental substitution.

• Developed effective doping strategies (nano-diamond, SiC, PVA, adipic acid) that significantly improved critical current density, flux pinning, and high-field characteristics of MgB_2.

• Synthesized Fe-based superconductors (REFeAsO, FeSe/Te, $SrFe_2As_2$) through scalable solid-state routes, contributing to accessible fabrication methods.

• Proficient in advanced materials characterization: XRD (Rietveld), PPMS-based magnetic/thermal measurements, resistivity, SEM-EDAX etc.

• Authored 30 international journal publications in leading superconductivity and condensed-matter physics journals.

• International research exposure at CNR-INFM-LAMIA, Italy, under a CSIR–CNR collaborative project on MgB_2 wires/tapes.

Verma S. S.

Name	Mr. Verma Surendra Singh
Date of Birth	December 1950
LM No.	282
Date/Year of joining ICC	1975
Life Member / Fellow	Life Member
Affiliation	NPL New Delhi, India
Position Held at the time of retirement	Scientist G
Address Official	Dept of Cryogenics, NPL
Expertise	Cryogenics, Mechanical System Design and Development
Total Research Experience	10 years
Address Residential	C-1 / 93 Janakpuri, New Delhi, 110058
Email ID	ssverma1950@gmail.com
Phone No.	9868384935
Are you would be comfortable to review papers for Indian J. Cryo.	No

Highlight of the scientific achievements

Developed round the clock availability of liquid nitrogen system
Installed 6000-liter vertical reservoir of liquid nitrogen.
Installed old helium liquefier and operated it for many years.

Vimal Jokhan Ram

Name	Mr. Vimal Jokhan Ram
Date of Birth	June 1965
LM No.	507
Date/Year of joining ICC	1988
Life Member / Fellow	Life Member
Affiliation	EX, CSIR- National Physical Laboratory, New Delhi – 110012
Position Held at the time of retirement	Principal Technical Officer
Address Official	Nil (Retired from NPL in 2025)
Expertise	Cryogenics
Total Research Experience	~ 45 years
Address Residential	8, C Block, Vikas Nagar, New Delhi – 110059
Email ID	Vimaljr95@gmail.com
E mail ID alternate	
Phone No.	7678553122
Area you would be comfortable to review papers for Ind. J. Cryogenics	Cryogenics

Highlight of the scientific achievemets

I have a rich experience in the operation and maintenance of Stirling cycle based liquid nitrogen plant (PLN-430). Besides I have contributed significantly in the development of various devices such as liquid level indicator cum controller, helium purity monitor and cryogenic temperature controller. I was also associated as team member in the preservation of original manuscript of the Constitution of India. Now I am one of the Executive Member of the ICC – North Zone.

DETAILS OF LIFE CORPORATE MEMBERS

Sr. No.	Membership No.	Company Name/Contact Person/ Website	Email ID / Contact Number/ Activity
1	LCM-551	M/s Inox India Limited, Vadodara Gujarat www.inoxcva.com	www.inoxcva.com Industrial Gases/LNG/LH_2/Cryo scientific & Bio research/Gas Cylinders
2	LCM-552	M/s Conserv Enterprises, Bhandup(W), Mumbai www.blazelead.com/con-serv-Enterprise/	conserventp@vsnl.com Supplier / Trader for Cryogenic Equipments
3	LCM-555	M/s Shell-N-Tube Pvt. Ltd www.shell-n-tube.com	munjal.mehta@shell-n-tube.com Vacuum insulated pipelines/ super insulated storage tank/ cryogenic vaporizer/ phase separators/cryo treatment chambers
4	LCM-556	M/s Demasco Holland BV, Oester The Netherlands http://demaco-cryogenics.com Mr. Niels Beers	info@DeMaCo.nl; nb@Demaco.nl Cryogenic pipelines/Valves and vacuum components
5	LCM-558	M/s Stirling Cryogenics India Pvt. Limited www.stirlingcryogenics.co.in Mr. Ashish Bhutani	info@stirlingcryogenics.co.in support@stirlingcryogenics.co.in +91-7042492969, 7042492976 Liquid Nitrogen Plants/ compressor/ Gas generators/ Cryobiological products
6	LCM-559	M/s Metallic Bellows India Limited , Chennai www.metallicbellows.org	mbip141@eth.net admin@metallicbellows.com Valves/Bellows/Aerospace components / Cryogenic Hoses/ HVAC
7	LCM-560	M/s Specialise Instruments Marketing Company, Kanjurmarg (West) Mumbai-400078 www.simc.co.in Mrs. Sonal Deshpande (Mumbai) Mr. Ravi Mohan Garg (Delhi)	info@simc.co.in; sonalsanjiv@simc.co.in ravi@simc.co.in +91-9870203076, 9811375599 Cryogen free measurement system/ cryostats/cryocoolers/ temperature sensors/ SQUIDS
8	LCM-561	M/s Sumitomo Heavy Instruments, Japsn www.shi.co.jp Mr. Taiji Tsuch	shi.cryo@shi-g.com Cryocoolers/Cryopumps/ Precision positioning equipments

9	LCM-562	M/sLinde Kryotechnik AG, Switzerland www.linde-kryotechnik.ch	info@linde-kryotechnik.ch Cryogenic plants/projects/ LHelium/LH_2 LNG/Liquefied Gasres
10	LCM-563	M/s Air Liquide Advanced Technologies, France www.advancedtech.airliquide.com	yannick.dupont@airliquide.com Cryogenic Liquefaction/ Fluid storage/LHe/Hydrogen specialized projects
11	LCM-564	M/s Cryogenic Limited, London UK. www.cryogenic.co.uk	sales@cryogenic.co.uk Cryogen free measurement system/LHe system/Squid Magnetometer
12	LCM-569	M/s Elgi Saucer Compressors Ltd Andheri (East), Mumbai www.elgisaucer.com	shouvikdas@elgisaucer.com Oil lubricated/oil free/gas compressors
13	LCM-570	M/s Vacree Technologies Co Ltd Hefei, China www.en.vacree.com	xujun@vacree.com; info@vacree.com Cryocooler/ Cryopump/ Cryostat/He purifier/SC cable cooling/ vacuum insulated pipelines
14	LCM-571	M/s Apollo Heat Exchangers Pvt. Ltd. Palghar, Maharashtra www.apollohx.com	sales1@apollohx.com yashshah@apollohx.co.in Cooling system/Cryo scientific systems/ Heavy precision fabrication
15	LCM-572	M/s Bauer Kompressoren India Pvt. Ltd. Pune, Maharashtra www.bauergroup.com	m.auluck@bauerkompressoren.in info@bauer-kompressoren.in Air cooled/water cooled screw compressors
16	LCM-573	M/s MVS Engineering Pvt. Ltd. New Delhi www.mvsengg..com Mr. Bireshwar Das	sales@mvsengg.com +91-9650094869, +91(033)0670378 LN_2 plant/Gas generation/ Biogas purification/LNG/ Hydrogen
17	LCM-574	M/s LABLINK Mumbai www.lablink.in	narendra@lablink.in; neeraj@lablink.in marketing@lablink.in; info@lablink.in Equipment for advanced scientific research

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