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INTERNATIONAL SPACE CONFERENCE AND EXHIBITION 2021

13 September - 4 October, 2021 | Over Digital Platform

"BUILDING NEWSPACE IN INDIA"

www.india-space.in

SPEAKERS PROFILE

The background of the entire page is a deep blue and purple cosmic image, featuring a dense field of stars and nebulae. The colors range from dark indigo to bright magenta and cyan, creating a sense of depth and vastness. The word "PROGRAM" is centered in the middle of the image in a bold, white, sans-serif font.

PROGRAM

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International Conference and Exhibition on

SPACE

“Building NewSpace in India”

PROGRAM

13 September 2021

15 September 2021

DAY 1 - 13 September 2021 (Monday)

1000 Hrs	Virtual Platform Opens
1400 - 1505 Hrs	Inaugural Session
1515 - 1645 Hrs	Shaping future with Geospatial applications: Emerging trends and Issues
1700 - 1800 Hrs	Research Collaborations and Building Technological Capabilities for Industry in Space

DAY 2 - 14 September 2021 (Tuesday)

1400 - 1515 Hrs	Indian Space economy: Business Models for enabling industry participation
1530 - 1645 Hrs	Drivers for creating a robust space start-up ecosystem in India
1700 - 1815 Hrs	Emerging Trends in Satcom: An India Specific Perspective

DAY 3 - 15 September 2021 (Wednesday)

1400 - 1515 Hrs	Increasing global partnership in Space sector : Explore as One
1530 - 1645 Hrs	Highlight Session: Human Spaceflight and Space Exploration Missions
1700 - 1815 Hrs	Can India be the hub for Space manufacturing?

A cosmic background image featuring a deep blue and purple nebula with intricate, swirling patterns of light and dark matter, creating a sense of depth and vastness in space.

DAY 1

MONDAY, 13 SEPTEMBER 2021

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International Conference and Exhibition on

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“Building NewSpace in India”

Inaugural Session

13 September 2021

1400 - 1510 Hrs



Dr K Sivan

Chairman ISRO and Secretary
Department of Space,
Government of India



Dr Pawan Goenka

Chairman Designate
IN-Space



Anthony Murfett

Deputy Head
Australian Space Agency



Nico Van Putten

Deputy Director
Netherlands Space Office



R Umamaheshwaran

Scientific Secretary
ISRO



Rajan Navani

Chairman
CII India@75Council



Dr D Radhakrishnan

CMD
New Space India Limited (NSIL)



Rakesh Sasibhushan

Chairman
CII National Committee on Space
and CMD Antrim Corporation



A Arunachalam

Director
New Space India Limited (NSIL)

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“Building NewSpace in India”

Shaping future with Geospatial applications: Emerging trends and Issues

13 September 2021

1515 - 1645 Hrs



Dr Rajkumar
Director
National Remote Sensing
Centre(NRSC), ISRO



Dr Ish Mohan Bahuguna
Deputy Director
SAC, ISRO



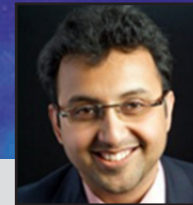
Rohan Verma
CEO & Executive Director
MapmyIndia



Deven Laheru
President- Business Development
Scanpoint Geomatics Ltd.



Coco Antonissen
Advisor Earth Observation
Netherlands Space Office



Prateep Basu
Founder
Satsure Ltd



Mani Thiru
APJ Space Industry Development
Leader Aerospace & Satellite
Solutions, Amazon Web Services

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International Conference and Exhibition on

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“Building NewSpace in India”

Research Collaborations and Building Technological Capabilities for Industry in Space

13 September 2021

1700 - 1800 Hrs



N Sudheer Kumar

Director
CBPO, ISRO HQ



Balamuralidhar

Chief Scientist
TCS Research



Ashwini Ratnoo (Dr)

Associate Professor
IISC, Bangalore



Joji J Chaman

Deputy Director
IISU, ISRO



G Ayyappan

Chief Technology Officer
IIST



Gurvinder Singh

Head
SCL, ISRO



Dinesh Kumar Singh

Deputy Director
SAC, ISRO



Tirtha Pratim Das (Dr)

Director
DTD



Virginia Kilborn (Prof)

Chief Scientist
Swinburne University, Australia



Alfred Stein (Prof)

ITC Twente

DAY 2

TUESDAY, 14 SEPTEMBER 2021

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“Building NewSpace in India”

Indian Space economy: Business Models for enabling industry participation

14 September 2021

1400 - 1515 Hrs



Rakesh Sasibhushan

Chairman, CII National Space
Committee and CMD, Antrim
Corporation Limited



Subba Rao Pavuluri (Dr)

Chairman & MD
Ananth Technologies



M.K Mishra

General Manager (ASD)
Hindustan Aeronautics Ltd.



D Krishna Gopal

Sr Vice President (Satcom)
AlphaDesign Technologies



Srinath Ravichandran

Co-Founder & CEO
AgniKul Cosmos



Naga Bharath Daka

Co-Founder & COO
Skyroot Aerospace



Shaunak Shah

Director
Komoline Aerospace

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“Building NewSpace in India”

Drivers for creating a robust space start-up ecosystem in India

14 September 2021

1530 - 1645 Hrs



Rakesh Sood

Former Indian civil servant of the
Indian Foreign Service cadre,
Columnist, and Writer



Chintan Vaishnav

Mission Director
Atal Innovation Mission



N Sudheer Kumar

Director
CBPO, ISRO HQ



Abhinav Anuket

Founder and CEO
Starburst Aerospace, India



Vishwanathan Sahasranamam

Co-Founder & CEO
FORGE



Rohan M Ganapathy

CEO & CTO
Bellatrix Aerospace



Jayakumar Venkatesan (Dr)

CEO
Valles Marineris International



Kumar Singarajah

Director
Government & Regulatory Affairs
(UK and Europe), Astroscale Ltd

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“Building NewSpace in India”

Emerging trends in Satcom : An India Specific Perspective

14 September 2021

1700 - 1815 Hrs



D Radhakrishnan

CMD
NSIL



K Rathnakara

Director
SatCom-PO, ISRO HQ



Deepa Tyagi

Senior DDG Technical
Department of Telecom
Ministry of Communications & IT
Government of India



PJ Nath

Managing Director & CEO
NELCO



Zaffar Sadiq Mohamed-Ghouse (Dr)

Executive Director
Spatial Vision, Australia



Prashant Butani

Sr Sales Director
MEASAT



Harsh Verma

Sales Director
Asia for Fixed Data
SES Networks



VL Shankar

Senior Vice President
Reliance Jio Projects



Gurvinder Chouhan

CEO & Founder
AQST Canada

The background of the entire page is a deep space image, likely a composite of various astronomical observations. It features a dark blue and purple color palette with intricate, wispy patterns of light blue and magenta, resembling interstellar dust or nebulae. Scattered throughout are numerous small, bright white and blue points of light, which are stars or distant galaxies. The overall effect is a sense of vastness and cosmic wonder.

DAY 3

WEDNESDAY, 15 SEPTEMBER 2021

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“Building NewSpace in India”

Increasing global partnership in Space sector : Explore as One

15 September 2021

1400 - 1515 Hrs



S Somanath

Director
VSSC



M Sankaran

Director
URSC



Arfan Chaudhry

International Director
UK Space Agency



Shaju Stephen

Chairman and Managing Director
Aadyah Aerospace



Nitish K. Singh

Co-founder & CEO
Astrogate Labs



Guler Kocak

Founder & CEO
SPACELIS



James Palmer

Founder
Space Centre Australia



Narayan Prasad

COO
Satsearch.co NL

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“Building NewSpace in India”

Highlight Session: Human Spaceflight and Space Exploration Missions

15 September 2021

1530 - 1645 Hrs



Unnikrishnan Nair S (Dr)
Director
HSFC, ISRO



P Sreekumar (Dr)
Former Director
SSPO, ISRO



UK Singh (Dr)
Director General
Life Support Systems
DRDO, Delhi



KG Vinod
Project Director
ECLSS, HSFC, ISRO



VT Basker
Project Director
GSLV MkIII, VSSC, ISRO



Pavan G. Ranga
CMD
Rangsons Aerospace Pvt Ltd, Mysore



R Kumar (Dr)
Scientist DRDO
Defence Food Research Laboratory
Mysore India



Ranganath Sadasiva
CTO – Hybrid IT
HPE India

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“Building NewSpace in India”

Can India be the hub for Space manufacturing?

15 September 2021

1700 - 1815 Hrs



Dr PV Venkitakrishnan
Satish Dhawan Prof
ISRO



Sathyan Subbiah
Coordinator
Extra Terrestrial Manufacturing
Research Group, IIT Madras



Laxmesh BH
Head - Missiles & Aerospace
Business
Larsen & Toubro



M.V. Reddy
Joint Managing Director
Astra Microwave Products Ltd.



Tom Segert
Director
Azista-BST-Aerospace



K. Soundhar Rajhan
Director-Operations
Lakshmi Machine Works Ltd.



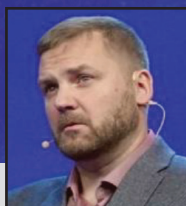
Dhiraj V Kesar
Head - Aerospace & Missiles
Business
Walchandnagar Industries Limited



Vinod Chippalkatti
President
Strategic Electronics BU, Centum
Group



Bert Monna
CEO
Hyperion Technologies



Dr. Artur Jutman
Managing Director
Testonica Lab OU

SPEAKERS PROFILE

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K. Sivan (Dr)
Chairman, ISRO
& Secretary, Department of Space
Government of India

Dr. K. Sivan joined ISRO in 1982 and was inducted into PSLV Project. He is specialised in Aerospace engineering, Space Transportation Systems Engineering, Launch vehicle, and mission design, control & guidance design and mission simulation software design, Mission synthesis, simulation, analysis, and validation of flight systems.

He has significantly contributed towards end-to-end mission planning, design, integration, and analysis. His innovative contributions, particularly the strategies adopted in mission design enabled the consistent performance of PSLV. This has also proved to be a good foundation for other launch vehicles of ISRO, like, GSLV MkII & MkIII including RLV-TD. He is the chief architect of 6D trajectory simulation software, SITARA, which is the backbone of the real-time and non-real-time trajectory simulations of all ISRO launch vehicles. He was responsible for commissioning world class simulation facility in ISRO for mission synthesis and analysis, which is used for mission design, sub-system level validation, and integrated validation of avionics systems in all ISRO launch vehicles. He developed and implemented an innovative 'day-of launch wind biasing strategy' that enables rocket launch on any day, under varied weather and wind conditions. He was the chief mission architect for successful launch of 104 satellites in a single mission of PSLV.

He has received many awards including Doctor of Science (Honoris Causa) from selected universities. He has numerous publications in various reputed Journals including a book in Nov 2015 "Integrated Design for Space Transportation System" published by Springer.



Pawan Goenka (Dr)
Chairman Designate
IN-Space

Dr. Pawan Goenka has completed 66 years of age. Dr. Goenka earned his B. Tech. in Mechanical Engineering from IIT, Kanpur and Ph.D. from Cornell University, U.S.A. He is also a Graduate of Advanced Management Program from Harvard Business School. He worked at General Motors R&D Centre in Detroit, U.S.A. from 1979 to 1993. Thereafter, he joined Mahindra & Mahindra Ltd., as General Manager (R&D). During his R&D tenure he led the development of the Scorpio SUV. He was appointed COO (Automotive Sector) in April 2003, President (Automotive Sector) in September 2005, President (Automotive & Farm Equipment Sectors) in April 2010. Dr. Pawan Goenka was appointed Executive Director and President (AFS) on the Board of the Company on 23rd September 2013. He retired from Mahindra as Managing Director and CEO on 1st April 2021. Dr. Goenka is credited with building a strong R&D and a wide product portfolio for Mahindra and is also widely recognised as a statesman of the India Auto Industry.

Dr. Goenka served on the boards of several Mahindra Group Companies both domestic and International. He served as the Chairman of Mahindra Vehicle Manufacturers Limited, Mahindra Electric Mobility Limited, Ssangyong Motor Company, Mahindra Racing UK Limited, Mahindra Automotive North America Inc., Mahindra USA, and Automobili Pininfarina GmbH. Dr. Goenka continues as the Chairman of Mahindra Agri Solutions Ltd (MASL). Dr. Goenka also serves as an Independent Director on the Board of Sun Pharmaceutical Industries Ltd. and Bosch Limited.

Dr. Goenka received several awards during his tenure at General Motors, such as the Extraordinary Accomplishment Award and the Charles L. McCuen Achievement Award from General Motors and the Burt L. Newkirk Award from ASME. He received the Distinguished Alumni Award from IIT Kanpur in 2004 and was also conferred with the Doctor of Science (honoris causa) in 2015. He is a Fellow of SAE International and of The Indian National Academy of Engineers and a member of National Academy of Engineers, USA.

In January 2011, Dr. Pawan Goenka was honoured with the Automotive Man of the Year award by NDTV Car & Bike. In December 2011, he featured as Autocar Professional's Man of the Year. He was conferred the 'CV Man of the Year' by the Apollo CV Awards 2012 in recognition of his extensive contribution within the automotive industry in India and globally. Dr. Goenka has been awarded the 2016 FISITA Medal of Honour, which is bestowed for his 'particularly distinguished achievement and leadership in the global automotive industry' and is the only Indian to receive this prestigious recognition. In February 2020, he was presented with the Lifetime Achievement Award by Car India.

& Bike India, for his leadership and commitment towards the progress of the Indian Automotive Industry. In March 2021, Dr. Goenka was conferred with the Param Shreshth Award by Car & Bike and honoured with the Lifetime Achievement Award by Autocar India for his contribution to the Indian Auto Industry.

Dr. Goenka is past President of SIAM, of the Society of Automotive Engineers India, the ARAI Governing Council, and also served as a Board Member of National Skills Development Corporation (NSDC). He is currently a National Council Member of Confederation of Indian Industries (CII) and the Chairman of the National Mission on AtmaNirbhar Bharat of CII. He is serving as the Chairman of the Board of Governors of IIT Madras and IIT Bombay. He is the Chairperson of the Steering Committee for Advancing Local value-add and Exports (SCALE), an initiative under the Ministry of Commerce & Industry.



A Arunachalam

Director
New Space India Limited (NSIL)

Mr. A. Arunachalam joined the Indian Space Research Organisation (ISRO) in the year 1989 after completing his M. Sc., (Physics) from Presidency College, Madras University. He initially worked in the areas of Satellite Data Processing, Remote Sensing & Geoinformatics applications at the National Remote Sensing Centre of ISRO, Hyderabad and later at Earth Observations System of ISRO Headquarters, Bengaluru, coordinating Geoinformatics and Earth Observation Satellites Projects. Presently he is working as Director, Technical & Strategy at NewSpace India Limited, a CPSE under Department of Space, Government of India and responsible for Satellite Projects, Satellite Based Services, Mission Support Services and Technology Transfer activities.



Abhinav Anuket

Co-founder and Managing Partner
Starburst Aerospace, India

Mr Abhinav Anuket is the Co-founder and Managing Partner of Starburst Aerospace, India. Starburst Aerospace is a global Aerospace and Defense Innovation Accelerator and Corporate Innovation advisory company. Starburst supports major Aerospace and Defense players including corporates, space agencies and governments. Mr Anuket is also the founder of Magnivia Ventures, a US based Venture Capital firm.



Alfred Stein (Prof)
ITC Twente

Alfred Stein is the Professor of Spatial Statistics and Image Analysis at the Faculty of Geoinformation Science and Earth Observation, University of Twente, Enschede, The Netherlands. He received the M.Sc. degree in mathematics and information science (with a specialization in applied statistics) from the Eindhoven University of Technology, Eindhoven, The Netherlands, and the Ph.D. degree in spatial statistics from Wageningen University, Wageningen, The Netherlands. At Wageningen University he worked for 15 years at the department of soil science and geology, and later at the department of mathematics and statistics. Since 2002 he has a full professor position at the faculty ITC that later was integrated at the University of Twente. His research interests include the statistical aspects of spatial and spatiotemporal data in the widest sense, such as monitoring data, optimal sampling, image analysis, spatial statistics, including the use of prior information, issues of spatial data quality, fuzzy methods and techniques, and random sets in a Bayesian setting. Applications are at present focusing on Geohealth, a novel domain that he actively helped to develop. Focal areas in this domain are the statistical modelling, mapping and monitoring of aspects of air quality and hospital infections. Other research applications include aspects of landuse, in particular bush fires and deforestation, hazards and disasters with interest on land slides and earthquakes, hydrology and cultural heritage. Image analysis focuses on integrating remote sensing timeseries of SAR and InSAR and of optical images. He has been involved as a work package leader in a European project on bush fires, and a national project on air quality. His teaching includes introduction to spatial statistics and image analysis. Since 2011, he is the Editor in-Chief of the Spatial Statistics Journal, which is the new leading platform in the field of spatial statistics. He is the primary organizer of a series of scientific conferences in spatial statistics, which have been organized in five countries around the globe. Currently, 10 Ph.D. students are working under his supervision. Alfred Stein has honorary positions at the University of Pretoria and the University of Cape Town, South Africa.



Anthony Murfett
Deputy Head
Australia Space Agency

Anthony Murfett is Deputy Head of the Australian Space Agency, where Anthony has oversight of strategy, policy and day-to-day operations and supports the Agency Head in monitoring the performance of the Agency.

Anthony has worked as Minister Counsellor, Industry, Science and Education at the Australian Embassy in Washington DC and as General Manager of the Growth Centres Branch within the Department of Industry, Innovation and Science in Canberra. Anthony ensures the Agency delivers on its purpose to transform and grow a globally respected Australian space industry that contributes to productivity and employment across the Australian economy.

Dedicated to purpose, Anthony brings an entrepreneurial spirit to the Agency, valuing partnerships while drawing strength from diversity and pushing the boundaries of our knowledge.



Arfan Chaudhry
International Director
UK Space Agency

In May 2018 Arfan joined the UK Space Agency as the Head of International Policy and was responsible for developing the Agency's policy for international interventions which aim to maximise benefits in trade, security, science and wider policy issues such as climate change. This included establishing effective relationships across Whitehall, industry, academia and strategically prioritising our international engagements both in Europe and globally according to the benefits to the UK.

In June 2021 he was appointed as the International Director at the UK Space Agency, responsible for international engagement through multilateral and bilateral frameworks, capturing the wider societal benefits of space programmes and harnessing the inspirational effect of space for skills and education. He also heads the UK delegation to the European Space Agency and leads on security and resilience of the UK's infrastructure and space applications.

Arfan has held a number of operational and policy roles, including at UK Trade & Investment as Assistant Director Support to Business and was responsible for delivering the strategy of industry engagement to ensure focused UK Government support for exports. In July 2013 he joined DIT's Regional Directorate with specific responsibility for building and developing export opportunities in the Americas. He is a qualified Management Accountant who, early in his Civil Service career, undertook a range of finance, secretariat and operational appointments in the MOD.



Artur Jutman (Dr)
Managing Director
Testonica Lab OU

Dr. Artur Jutman (M) received his M.Sc. and Ph.D. degrees in computer engineering from Tallinn University of Technology (TUT), Estonia in 1999 and 2004 respectively. Since 2005, Dr. Jutman manages R&D projects and services in the field of manufacturing testing, debug and diagnostics at Testonica Lab. His research interests include fault/health management, embedded instrumentation, board/system test, and defect modeling (with over 150 research papers published). Dr. Jutman has given several keynote and invited talks (VLSI-SoC'2016, ReCoSoC'2016, TuZ'2017), conference tutorials (ITC'2016, LATS'2016, ETS'2016, ATS'2016) and numerous hands-on training courses and lectures in testing, diagnostics, and DFT for graduate students in Germany, Italy, Sweden, Portugal, and Russia. Previously, A. Jutman has been a visiting researcher in: TU Darmstadt, TU Ilmenau, University of Linkoping, and University of Jonkoping as well as in TU Warsaw. He is also a member of the executive committee of the Nordic Test Forum (NTF) society. He has been actively involved in numerous FP5, FP6, FP7, and H2020 R&D projects including being a coordinator in FP7 project BASTION (2014-2017) and EUROSTARS project COMBOARD.



Ashwini Ratnool (Dr)
Associate Professor
IISC, Bangalore

Ashwini Ratnool received the B.E. degree in Electrical Engineering from the MBM Engineering College, Jodhpur, India, in 2003, and the M.E. and Ph.D. degrees, in Aerospace Engineering, from the Indian Institute of Science, Bangalore, India, in 2005 and 2009, respectively.

During 2009-2012, he was a postdoctoral researcher at the Aerospace Engineering Department, Technion- Israel Institute of Technology, Haifa, Israel.

Currently, he works as an Associate Professor at the Aerospace Engineering Department, Indian Institute of Science, Bangalore, India.

His research focuses on guidance and control of aerospace vehicles.

From 2019 he is serving as the Convener, ISRO-IISc Space Technology Cell, IISc.

He is an elected member of the Indian National Young Academy of Sciences (INYNAS), Associate Fellow of American Institute of Aeronautics and Astronautics (AIAA), a member of AIAA Guidance, Navigation, and Control Technical Committee, and a member of the editorial board for IEEE Transactions on Aerospace and Electronics Systems.



Balamuralidhar P

Chief Scientist and Head of Robotics and Autonomous Systems
TCS Research - Bangalore

Dr. Balamuralidhar P is a Chief Scientist and Head of Robotics and Autonomous Systems Research Area, TCS Research, Bangalore. He has obtained Bachelor of Technology from Kerala University and Master of Technology from IIT Kanpur. His PhD is from Aalborg University, Denmark. Major areas of current research include Sensor Informatics, Computer Vision, Cognitive Robotics, Remote Sensing and Space Tech.

Dr. Balamuralidhar has over 33 years of research and development experience and lead several collaborative research initiatives. He has over 150 publications in various international journals and conferences and over 60 patents granted. His previous research careers were with SAMEER Bombay, and Sasken Communications Bangalore. He has co-authored a book titled 'IoT-Technical Challenges and Solutions' published by Artech Book House.

Balamuralidhar has received TCS Distinguished Scientist award in 2020. He is also recipient of two Tata Innovista awards and the Serial Innovator award from Tata group. He has delivered several keynote addresses and invited talks in reputed conferences and symposiums. He is also a senior member of IEEE and member of ACM.



Bert Monna
CEO
Hyperion Technologies

Bert Monna did his MSc at the TU Delft in the field of analogue circuit design in 1992. In 1996 he finished his PhD at the TU Delft in the structured design of analogue chip design.

After having worked at a design house for RF chips from 1996-1998, he started SystematIC design with several colleagues in 1998, focusing on developing analogue and mixed-mode chips for sensor readout and power conversion. The application areas varied from consumer, automotive, industrial to space applications. During this time, he also received his MSc in Business Science from Nyenrode University. Next to pursuing his career in industry, he was part-time working at the TU Delft as an associate professor in analogue circuit design. He was closely involved in the design of the first and second CubeSat (Delfi-C3 and Delfi-N3xt). In 2013 he was one of the co-founders of Hyperion Technologies, currently acting as CEO.

He likes working with enthusiastic people, supervising many students doing their thesis work at Hyperion or the TU Delft from various faculties and backgrounds.



Chintan Vaishnav (Dr.)

Mission Director - Atal Innovation Mission (AIM)
Niti Aayog

Dr. Chintan Vaishnav is a socio-technologist, an engineer trained to design and build large-scale systems that possess both human as well as technological complexities. Presently, he serves as the Mission Director for Atal Innovation Mission (AIM), a flagship initiative of the government of India under the auspices of the NITI Aayog. Chintan is on leave from Massachusetts Institute of Technology (MIT) for his present assignment. As a teacher, innovator, and entrepreneur, he has split his time between teaching and research at MIT and living and working with rural communities in India to build solutions that can overcome constraints fundamental to improving human conditions.



Coco Antonissen

Advisor Earth Observation
Netherlands Space Office

Coco Antonissen works as an Advisor on Satellite Applications at Netherlands Space Office. She has a background in Geoscience & Remote Sensing from Delft University of Technology. As an Advisor on Satellite Applications, she advises the government on the use and benefits of satellite data to stimulate the implementation of satellite data. This includes initiating and coordinating innovation programmes with the government and industry, to bridge the gap between available technology and demand from the government.



D Krishna Gopal
Sr Vice President (Satcom)
Alpha Design Technologies Pvt. Ltd.

Shri D. Krishna Gopal is a professional Electronics & Communication Engineer with more than 30 years' experience in R&D as well as System Integration in the Satellite communication field. After retirement from Bharat Electronics as Head of Satellite Communication Systems Business Unit, he joined Alpha Design Technologies Ltd as Systems group head and executed many Satellite projects for the Armed Forces as well as ISRO sponsored Ground segment projects example North Eastern State EDUSAT, Bhutan Broadcasting Network, Telemedicine for Armed Forces, Pan India POLNET with 700 terminals, several GPS tracking projects for ISRO using IRNSS Navigation satellite. In the Space domain , ADTL SATCOM division has contributed through Assembly Integration & Testing (AIT) for ISRO's Satellites IRNSS, GSAT -30 and the current RISAT -1A Satellite which is planned to be launched in Oct 2021.



D Radhakrishnan (Dr)
Chairman and Managing Director
NewSpace India Limited (NSIL)

Radhakrishnan D has 30 PLUS Years of experience in Indian Space Research Organisation (ISRO) and currently working as Chairman & Managing Director, NewSpace India Limited (NSIL), a Govt. of India company under Department of Space and the commercial arm of ISRO.

He is expertise in Launch Vehicle configuration and Mission Design; Commercial Launch Services and Communication satellite services. He has several years of experience in Handling Technical/ Programmatic/ Managerial / International sectors of space. He worked in Launch Vehicle Design Group and Launch Vehicle Programme office at ISRO HQ.

He represented as Member of Indian delegation in United Nations Committee on Peaceful Uses of Outer Space (UN-COPUOS).

He handled commercial launches of more than 300 plus international customer satellites on-board PSLV over past 20 years. He served as Director (Technical & Strategy) for NSIL and was responsible for carving out Business Verticals and execution of various Businesses of the company.



Deepa Tyagi

Sr DDG(TEC)

Telecommunication Engineering Centre

Department of Telecommunications

Ministry of Communications & IT

Government of India

Deepa Tyagi is presently working as the senior Deputy Director General (DDG) of Telecom Telecommunication Engineering Centre (TEC), after putting testing and certification on hold for gear vendors. Prior to this, Tyagi was serving at the National Telecommunications Institute for Policy Research, Innovation & Training (NTIPRIT).



Deven Laheru

President- Business Development
Scanpoint Geomatics Ltd.

Deven Laheru is seasoned professional with expertise in Business Development, Enterprise Sales & Marketing, Operation and P&L Management. In his career spanning 27+ years, he has held various leadership positions at large IT companies like HCL and Oracle. His customer centric & solution-based approach has enabled him to successfully set up the business in new domain and verticals during his stint with HCL & Oracle both. In his current role as President – Business Development, he leads pan India sales and business development team and is responsible for strategy, business planning, GTM, revenue and market share growth. Under his leadership in last three years, scanpoint has expanded his presence across country and had penetrated across multiple domains like urban, smart cities, land records, SDI, State and Central Governments, Defence, Education & Research etc. On academic front, He is an Engineering Graduate in Electronics from BVM College of Engineering, Sardar Patel University.



Dhiraj V Keskar

Head - Aerospace & Missiles Business
Walchandnagar Industries Limited

Mr Dhiraj has done his Mechanical Engineering from AISSMS' College of Engineering, Pune & PG Diploma in Business Administration from Symbiosis, Pune. He has a profound experience in technical aspects of product and projects of Aerospace & Defence sectors.

He has been associated with Walchandnagar Industries Ltd for 18+ years. With his strong business acumen and analytic ability with capability of identifying business trends and opportunities he has brought about transformation changes in the growth of business in A&M.

He has been a co-partner in executing & delivering ambitious projects of supply of core/critical equipment and integration on board Defense Strategic Platform. Been an effective communicator he shares an excellent relationship across his customer base & also his ability to nurture , motivate & relate to people at all level of business makes him lead the IR cluster too for WIL.

He currently heads WIL's Aerospace & Missiles Business operations at Walchandnagar.



Dinesh Kumar Singh
Deputy Director
SAC, ISRO

Mr. D K Singh is Deputy Director , Human Spaceflight & Advanced Technology Area at Space Applications Centre, ISRO, Ahmadabad. He holds Master of Technology in Electronics Engineering with the Specialization of Microwave Engineering from Institute of Technology BHU, Varanasi. He has rich experience of 30+ years in the domain of design and development of onboard Systems for Communication & Navigation Satellites.

He started his career as RF systems design engineer in INSAT-2 Project in 1989. Since then he has contributed to all the Communication and Navigation satellites of ISRO. He was Deputy Project Director for GSAT-6, GSAT-8 and GSAT-10 Payloads and Associate Project Director for GSAT-15 Payloads. He started his career as RF systems design engineer in INSAT-2 Project in 1989. Since then he has contributed to all the Communication and Navigation satellites of ISRO. He was Deputy Project Director for GSAT-6, GSAT-8 and GSAT-10 Payloads and Associate Project Director for GSAT-15 Payloads.

He has been leading the design teams to design and realize the Low Noise Amplifiers, Receivers, Microwave Filters, Power Amplifiers and DC-DC converters for on-board application. Under his leadership various designs operating from UHF to Q/V band were successfully introduced on ISRO missions. He worked as System Design Engineer for 5 years and contributed to system design GSAT-7, GSAT-11 and several other payloads.

He has been instrumental to developing and nurturing Industry partnerships leading to large scale contribution of Indian Industries towards realization of communication and navigation payloads. As Associate Project Director Crew Communication Systems He was closely associated with pre-project activities of Gaganyaan and contributed to communication links for CARE and Pad Abort Test Experiments. He has several technical publications national and international publications.



G Ayyappan
Chief Technology Officer
IIST

Dr G Ayyappan is a Liquid Propulsion Rocket specialist and a Launch Vehicle systems engineer of repute from the Indian Space Research Organization (ISRO). Expert in Project Management, Launch Vehicle Design, Systems Reliability and Quality Assurance, Dr Ayyappan, was with Vikram Sarabhai Space Centre for more than 37 years. He led 'Team ISRO' as Vehicle Director for GSLV MK-III experimental flight-LVM3-X, CARE Mission for a successful flight in December 18, 2014.

Subsequently designated as the Project Director of GSLV MK-III, the most challenging new generation launch vehicle of ISRO catering to 4 t class GSO satellites. Led the project techno-managerially during the crucial phase of development and qualification of vehicle systems particularly ISRO's first fully indigenous high performance cryogenic stage (C25).

Dr Ayyappan was Mission director for the first flight of the GSLV MkIII launched on 5th June 2017 - the GSLV MkIII D1, GSAT 19 Mission which was a grand success and paved way to Launch 4 T class satellite from India. Later he became the Programme Director, Space Transportation System at the Vikram Sarabhai Space Centre, Thiruvananthapuram and guided the PSLV, GSLV and GSLV MkIII Projects. Configuration design architect of the Small Satellite Launch Vehicle (SSLV). Dr G Ayyappan also provided inspiring leadership to technologies intended for recovery and reuse of launch vehicle stages. The design and development of Test Vehicles to flight demonstrate re-entry and re-usable systems was undertaken under his tutelage.

Later Dr G Ayyappan became Associate Director(Projects) of Vikram Sarabhai Space Centre. Professor & Chief Technology Officer at IIST, giving Techno-managerial leadership for the Joint Research Projects of ISRO & IIST. Dr G Ayyappan has been bestowed with many awards. ISRO Individual Merit Award-2014, Performance Excellence award-2018 and ISRO Team Excellence Awards in the years 2009, 2010, 2011, 2014 and as Team Leader in 2017.

For his outstanding contribution to Research and Development of space technology in India, IIT Madras Awarded, Distinguished Alumnus Award- 2019 to Dr. G Ayyappan. Aeronautical Society of India awarded the prestigious, Dr. Biren Roy Space Science and Design Award in 2018. Dr Ayyappan is a Fellow of the National Academy of Engineering and Member, Sectional Committee-VII, Aerospace Engineering, Indian National Academy of Engineering (INAE).

He is also Fellow of Aeronautical Society of India, Fellow of the Astronautical Society

of India and Fellow of the Institution of Engineers. Member of Research Council, IIST& Doctoral Committee in Abdul Kalam Technological University. He has numerous publications to his credit.



Guler Kocak
Founder & CEO
SPACELIS SPACELIS

Guler Kocak, Founder & CEO, SPACELIS SPACELIS was formed in 2020 by Founder and CEO Guler Kocak aiming to design solar cells that can be used in future space missions such as Artemis and Lunar Ascent as these plastic solar cells will be fabricated to be highly stable in harsh environments having ultra-light weight architecture, radiation and heat resistance, and printability. Organic photovoltaic (OPV) solar cells are the future energy resource due to their versatile state-of-the-art production methods, eco-friendliness and low fabrication cost. They can be used in a number of industries including renewable energy and space.



Gurvinder Chohan
CEO and Founder
AQST Canada Inc

Mr Gurvinder Chohan is CEO and founder of AQST Canada Inc Company has office global footprint in USA, Indonesia, UAE, Germany, Kiev and Singapore. He holds Engineering degree and MBA. Currently doing M.Sc in Business law. Since joining the group in March 2019, company has achieved success in signing their first commercial agreements of over 450MUSD and have generated sales funnel of over 700MUSD. AQST shall be launching their first satellite in Jun 2022. AQST is leading company in the development of FSO/Optical communication satellites and AI ML based Remote sensing solutions.

AQST recently announce to launch their private mission to moon with their own deigned Lander and rover.

Prior to this Mr. Chohan worked in MAXAR (MDA) for the last 10 years as director of Business development. Supported Development and establishment of national space policies international cooperation. Other key achievements:

- 1) Board Member of AIAC - Technical and Commercial committee for Space.
- 2) Member of UN GEO committee on disaster management
- 3) Advisory board member for Stealth company for development of Launch vehicle using ballon
- 4) Executive Director Canadian Turkish Business Council
- 5) Served in DFAIT (Global Affairs) Committee for developing and emerging markets in Aerospace
- 6) Participated in Free trade agreement round table discussions (CEPA India)
- 7) Represented in S Korean-Canadian Inter Ministerial Science and technology conference
- 8) Represented Canadian high tech companies in many conferences across the globe
- 9) Served in various local Non profit educational Organizations Orphan kids.

Awards: 1) Canadian Governor General Sovereign Medal



Gurvinder Singh

Head
SCL, ISRO

Gurvinder Singh is working as a Group Head of Electronics Fabrication and Testing Group (EFTG) at Semi-Conductor Laboratory (SCL), Chandigarh. He is responsible for Assembly, Testing and Packaging of CMOS and MEMS devices. This involves the post fab activities like wafer level testing, die packaging in hermetic package and electrical testing on package level. He is involved in realization of different type of devices like Microprocessors, SRAMs, Data Converters, Power Management Devices, Application Specific Integrated Circuits (ASICs), System-in-Package (SiP), Multi-Chip-Module (MCM), Sensors and Transducers. He had worked in Space Application Centre (SAC), Ahmedabad for design and development of Camera Electronics for Electro-optical Payloads from 2000 to 2009. Singh received his B-Tech in Electronics and Communication Engineering from Punjab Technical University and M-Tech from Panjab University Chandigarh.



Harsh Verma

Sales Director, Asia for Fixed Data
SES Networks

Harsh Verma leads the sales and business development efforts in the Fixed Data vertical of SES Networks across the Asia region. Harsh has been with SES Networks (earlier O3b Networks) for more than 7 years.

Harsh has vast experience in the satellite industry ranging from operations, sales engineering, product strategy and sales. He is an engineering graduate with master's in international business. Prior to SES networks, Harsh has had extensive experience working with leading OEMs and service providers in the satellite industry in the Asia Pacific region notably with Hughes Network System (APAC and India operations) and PCCW.



Ish Mohan Bahuguna (Dr)

Deputy Director
SAC, ISRO

Dr. I.M. Bahuguna is presently Deputy Director of Earth, Ocean, Atmosphere, Planetary Sciences and Applications Area at Space Applications Centre, ISRO, Ahmedabad. He has an experience of approx. 34 years in remote sensing data analysis for natural resources and planetary surfaces. As deputy Director, he is technically guiding his colleagues for in various R & D and operational projects. He has contributed in remote sensing and geospatial analysis of geomorphological features and Himalayas snow and Glaciers using ISRO's earth observation data. His special contribution includes monitoring of snow and glaciers of Himalaya region in the last three decades using Earth observation data. He has contributed significantly in photogrammetry specially in using software for DEM generation using CARTOSAT-1 stereo data. He has successfully completed many application projects in SAC along with more than fifteen collaborating agencies which include academic Institutions, research Institutes and Government organisations. He has also undergone training in Ground water resources in United kingdom for three months under British Council Fellowship. He has also received ISRO's team excellence award for his contributions in Cryosphere studies.

He is Member of Hydrosphere and Cryosphere committee, constituted by Secretary Ministry of Earth Sciences, Government of India, for approving, reviewing and monitoring of work being carried out with the support of Ministry. He is Member of committee constituted by Secretary, Ministry of Earth Sciences, Government of India, for approving, reviewing and monitoring of work being carried out under HiCOM programme of National Centre for Polar and Ocean Research, Member of Independent Review committee constituted by Secretary, Ministry of Earth Sciences, Government of India for reviewing the work of NCPOR, Goa, Member of panel of experts constituted by Ministry of Environment, Forests and Climate Change, Government of India, Member of Expert committee of National Mission of Himalayan Studies and Expert committee for Early Warning System of Government of India. Under his guidance many operational projects have been carried out which can be shared with commercial institutions.



James Palmer
Founder
Space Centre Australia

James Palmer, Founder of Space Centre Australia Mr Palmer's Space Centre Australia is a large scale multi use space port facility being constructed near the township of Weipa, North Queensland, Australia. His distinguished career includes service as a qualified Submariner in the Royal Australian Navy Submarine Service, and he has returned from active duty from the Middle East in 2002. Mr Palmer is a Chartered Engineering Executive Leader with 15 years of success in engineering within the Space Industry Sector and Defence Industry. He has worked in engineering management and headed up development and deployment of satellite systems in the United States and Australia. He has also managed installation of Broadband communications ground stations for Australia's National Broadband Network.



Jayakumar Venkatesan (Dr)

Astropreneur & Chief Executive Officer
Valles Marineris International Private Limited

Jayakumar Venkatesan is an Astropreneur & Chief Executive Officer for Valles Marineris International Private Limited (Aerospace Company), India. He is the Partner and Chief Technologist for Synergy Moon, USA (One of the finalists in \$40Million Google Lunar XPRIZE), and specialist in Manned Spacecraft training simulators for professional astronaut training and Orbital Research Stations. He is also the Director (Human Spaceflight Research) at Analog Astronaut Training Center, Poland supported by National Space Agencies.

Jayakumar Venkatesan is the expertise in the Spacecraft Engineering and Additive Manufacturing Technologies suitable on the Moon and Mars. Additionally, he is also a Nano-Satellite Researcher & Chief Technology Officer for KSF Space Foundation, USA. He is also one of the global experts to witness the 3D Bioprinter developed by 3D bioprinting Solutions (Russia) intends to conduct the 'Magnetic levitational bioassembly of 3D tissue construct in space". It was successfully demonstrated in ISS and the first experiment for printing living tissues in outer space.

He is the former National Point of Contact (India) of The Space Generation Advisory Council in support of the United Nations Programme on Space Applications, Austria. He is the Visionary Board Member to the Technology Contests UpGreat organized by Russian Venture Company, «Skolkovo» Foundation and Agency of Strategic Initiatives, Russia and Deputy Chairman (International Affairs) for International Academy of Space Law (IASL), Russia. He is the Advisor to Global Centre for Compliance, Hazards and Disaster Management, Cameroon and Moriba Space Club, Sierra Leone. He is also an Aerospace Education Consultant for National Research Universities in Russia and Founder of Cygnus Aerospace Limited, United Kingdom.



Joji J Chaman

Deputy Director
Inertial Systems Production Entity
ISRO Inertial Systems Unit Thiruvananthapuram

Edducational Qualification: B Tech Mecahnical (Production Stream), NIT Calicut
M Tech Manufacturing Engineering (BITS Pilani)

Areas of Specialization: Manufacturing technology,
Design and development of inertial sensors,
Space Robotics

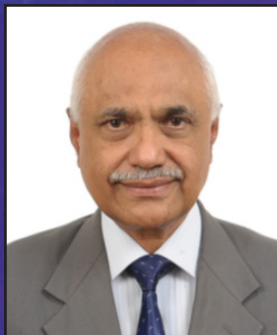
Awards : 2013 Vikarm Srabhai award, instituted by PRL
ISRO Team Excellence awards (3 times)

Patents : 2



K Rathnakara
Director SATCOM-PO
ISRO HQ

Shri Rathnakara is Director SATCOM Program Office at ISRO HQ, Bangalore. He took over this position from May 2020. After his graduation in BE Electronics and Communications in 1985, he joined ISRO at Master Control Facility at Hassan. During his 35 years of tenure he held key positions and contributed immensely in establishment and operations of earth stations of various sizes and capabilities, operating in C, Ext C, Ku and Ka bands. He was the key player in ensuring precise performances of payload with well planned In-orbit Tests. His contributions also include development of innovative solutions in tracking, monitoring and operations of communication as well as NavIC satellites. He has published several papers in national and international journals. He is recipient of Team Excellency awards and ISRO merit award.



K. Soundhar Rajhan

Director-Operations
Lakshmi Machine Works Ltd.

K. Soundhar Rajhan is the Director-Operations at Lakshmi Machine Works Ltd, heading Machine Tool, Foundry & Advanced Technology Centre. Advanced Technology Centre is catering to critical needs of both Space & Aviation industry in Critical machining parts, special sheet metal forming, Special finishing processes & assemblies. His present responsibility includes setting up a State of Art Composite facility to cater to Space & Aviation needs. He has joined the board of Lakshmi Machine Works from 1st November 2017. He was the Chairman of LMW Textile Machinery (Suzhou) Co. Ltd, China until 2015 & returned to India as President-MTD, Foundry & ATC. He moved to China in 2009 to start the green field project to set up a textile machinery plant in China. In the year 2009, he has successfully completed AMP (Advanced Management Program) at Harvard Business School, Boston, USA. During his tenure in LMW, he was responsible to implement ERP as the Project Director-E-Vista in 2002. He was the project leader in Business Process Re-engineering with BCG for LMW in the year 2000. He is with Lakshmi Machine Works from 1973 & was heading various functions including Supply Chain Management.



KG Vinod
Project Director ECLSS
HSFC, ISRO



Kumar Singarajah

Director
Government & Regulatory Affairs (UK and Europe)
Astroscale Ltd

Kumar Singarajah has over 30 years experience in senior engineering positions at SES and Inmarsat and senior management positions at ICO Global, Global Radio, Avanti Communications and Astroscale Ltd. He has extensive experience in satellite communications systems and satellite systems engineering for both geostationary and non-geostationary satellite systems as well as regulatory, spectrum, licensing, market access and policy issues for civil and government space systems in both EMEA and globally. He is currently employed by Astroscale Ltd (UK) as Director, Government and Regulatory Affairs (UK, Europe).

Astroscale is a rapidly expanding private venture company with a vision to secure the safe and sustainable development of space for the benefit of future generations, and the only company dedicated to on-orbit servicing across all orbits. Founded in 2013, Astroscale is developing innovative and scalable solutions across the spectrum of on-orbit servicing, including life extension, in situ space situational awareness, end of life, and active debris removal, to create sustainable space systems and mitigate the growing and hazardous buildup of debris in space. Astroscale is also defining business cases and working with government and commercial stakeholders to develop norms, regulations, and incentives for the responsible use of space. Headquartered in Japan, Astroscale has an international presence with subsidiaries in the United Kingdom, the United States, Israel, and Singapore. The company has a growing team of over 200 people – 65% of whom are engineers and all of whom have a passion to secure sustainability in space. Astroscale launched its ELSA-d LEO space mission in March 2021 to demonstrate the core technologies necessary for debris docking and removal.

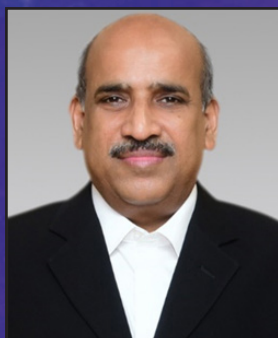


Laxmesh BH

Head – Missiles & Aerospace Business
Larsen & Toubro

Laxmesh BH, a Mechanical Engineering Graduate with MBA and leadership certifications from multiple global renowned institutions, is currently heading the Missiles & Aerospace Business Operations, at L&T-Defence, Larsen & Toubro.

With a purpose of 'collectively building the future of India', he has been working hard in developing a Defence & Aerospace Cluster in South India. He is on the D & A expert Panel of CII TN, National SPACE committee of CII, Expert panel on AIDAT, and a National council member of ISSE (Indian Society of Science & Systems Engineering).



M. Sankaran
Distinguished Scientist
ISRO

He took over as Director of U R Rao Satellite Centre (URSC), the lead Centre in the country for design, development and realisation of all satellites of ISRO, on June 01, 2021. He is currently leading satellite fraternity to realise various types of satellites to meet the national requirements in the areas like communication, navigation, remote sensing, meteorology and inter-planetary exploration.

Before taking over as Director, URSC he was functioning as Deputy Director for Communication and Power Systems Area in URSC and spearheading the developments. During his 35 years of experience in URSC / ISRO, he has contributed primarily in the areas of Solar arrays, Power systems, Satellite Positioning System and RF communication systems for Low Earth Orbit(LEO) Satellites, Geostationary Satellites, Navigation Satellites and Outer Space Missions like Chandrayaan, Mars Orbiter Mission (MOM) and others.

He was instrumental in successful realisation of the 70V bus for the ISRO satellites, unique design for power generation and distribution systems for the interplanetary mission like Chandrayaan-1 & 2, Mars Orbiter Mission, Astrosat, etc. He has fostered the industries in the country for fabrication and testing of solar panels, battery systems, etc.

Among his works in the recent years, he is leading the efforts towards to miniaturisation of avionics systems, indigenisation of Electronics & power system components, micro/mini satellite bus development, etc. He is also spearheading the avionics system design, realisation and qualification for the Gaganyaan Programme.

He joined the ISRO Satellite Centre (ISAC), currently known as URSC after obtaining his Master's degree in Physics from Bharathidasan University, Tiruchirappalli in 1986.

He has been awarded ISRO's Performance Excellence Award for the Year 2017 and ISRO Team Excellence awards in 2017 and 2018. He has about 50 publications to his credit in Peer Reviewed Journals and International conferences.



M.K Mishra

General Manager (ASD)
Hindustan Aeronautics Ltd.

Shri M K Mishra is a graduate in Mechanical Engineering and holds master's degree from IIT Chennai in Aircraft Production Engineering. Shri Mishra joined HAL as Management Trainee in 1987 and currently is the Business Head at Aerospace Division, HAL, Bangalore. During his career spanning more than 31 years in HAL, he has worked in various projects at HAL's Production Divisions at Koraput in Odisha and Kanpur in UP and also at Corporate Office, Bangalore.

Shri Mishra has experience of working in various functions such as Planning, Manufacturing, Assembly, exports & Project Management. He also has rich experience in international marketing dealing with international cooperation, strategic alliances, marketing intelligence & analysis, exports & Indian defence offset programme.

Shri Mishra has recently worked on a special assignment, as project head, for development of civil version of 19 seater Do-228 aircraft for deployment under Govt. of India "UDDAN" initiative. The project has been successfully completed by obtaining both design & production certification approval from Indian Civil certification Agency, DGCA, India.

Currently as General Manager of HAL Aerospace Division, Shri Mishra is leading a team actively involved for production & integration of spaceworthy launching vehicle hardware and also for augmenting technical facility & capability for various Space programme.



M.V. Reddy

Joint Managing Director
Astra Microwave Products Ltd.

A Graduate in Electronics Engineering and a Post Graduate in Business Administration, Mr. M. V. Reddy has over 30 years of experience in handling Marketing and Business Operations in the domains of Defense, Space, Meteorology and Telecom segments. His extensive experience includes handling both domestic as well as overseas customers. Leveraging his vast work experience, working closely with varied customers to meet the requirements of the Strategic Electronics sector, he has developed a very keen and precise understanding of the Industry requirements. He has a thorough understanding of both opportunities and challenges of this niche domain.

His foray into the Strategic Electronics domain started with his work as a trainee Engineer in Electronics Corporation of India Limited in the year 1990, Public sector undertaking under the Department of Atomic Energy. He utilized the opportunity to gain valuable experience by working on various technical platforms and getting hands-on exposure to cutting-edge technologies and systems.

Subsequently, he channeled this experience and moved to marketing following his passion for this field. He served in some noted private industries operating in various industry domains like Power, Telecom etc. before joining Astra Microwave Products Limited in the year 1998. Since then, he has grown steadily with Astra working closely with customers in various market segments. He was elevated to the Board of Directors of the company in the year 2015 overseeing the business development and operations for Astra where-in his responsibilities covered generation and execution of business in the Defense, Space, Telecom and Meteorology segments from both domestic and Export sectors.

After working in the organization for 21 years at various key positions, he was promoted to his present portfolio of Joint Managing Director, in the year 2019. As JMD of Astra Microwave Products Limited, he oversees the execution of all the R&D and Production activities of the Organization. He is responsible for ensuring the right mix of continual R&D in cutting-edge products and scaling up products for bulk production. This ensures sustainable business continuity for products and services offered by Astra Microwave Products Limited to meet the ever-growing needs of this niche Strategic Electronics domain.



Mani Thiru

APJ Space Industry Development Leader
Aerospace & Satellite Solutions, Amazon Web Services

As the AsiaPacific Business Leader within the Aerospace & Satellite Solutions team at Amazon Web Services, Mani works to enable the space industry to achieve its most ambitious goals through the power of cloud. She is passionate about leveraging transformative services like machine learning, artificial intelligence, high performance computing, satellites & data analytics to improve every aspect of the space enterprise and mission. This entails building innovative partnerships and vibrant connections across private enterprises, public agencies, R&D institutions and start-ups both locally and internationally to deliver outcomes in a range of areas from space enabled agriculture, emergency & disaster management through to defence space, space exploration and earth observation research.

Mani currently serves on SmartSat CRC's Artificial Intelligence for Space in Australia, advises the Queensland Government's Space Industry Reference Group on matters pertaining to the growth of the state's growth industry and is a member of the American Chamber of Commerce Space Committee. Mani is outspoken on the power of technology innovation as a societal game changer and the significance of space industry to the nation's social well being and economic prosperity. She is a strong advocate of women and minorities in technology, dedicated to empowering and uplifting young women. And can also be often found passing on that curiosity for learning and a sense of adventure to the next generation of students to pursue STEM careers.



N Sudheer Kumar
Director CBPO
ISRO HQ

After Post Graduation, he served Tata Steel for 6 years. Implemented various quality systems and associated with Mc Kinsey and Booz Allen & Hamilton in implementing various projects.

Joined ISRO in 2000 and assumed key roles in realizing.

- Enterprise Software Solution for ISRO.
- GSLV MK III Facilities incl. Solid Rocket Propellant Plant, State Of Art Mission Control Centers, Assembly & Integration Facilities and Critical Equipment For Launch Complex.
- Second Vehicle Assembly Building Project, Largest Rocket Integration Facility of ISRO.
- Vendor Manager for last 18 years.

Presently working as Director, CBPO, ISRO HQ and responsible for capacity building in the areas of research and academia interface, Startup Incubation, Industrialization, indigenization, Technology Transfer, IRP, Technical Infrastructure and outreach activities of ISRO.



Naga Bharath Daka
COO and CTO (Avionics and GNC)
Skyroot Aerospace

Started Career as Flight computer engineer at Vikram Sarabhai Space Centre, ISRO where he worked on board computer systems of various launch vehicles under development. Later on Worked briefly in Semi-conductor industry.

Co-founded Skyroot in June 2018 with Pawan Kumar Chandana with an aim to build globally competitive Space launch startup from India.



Narayan Prasad (Dr)
Chief Operations Officer
Satsearch

Dr. Narayan Prasad is Chief Operations Officer at satsearch, the world's largest marketplace for the space industry that streamlines procurement for team building space missions and suppliers. He also serves as a Partner to SpacePark Kerala, a Government of Kerala initiative to develop a dedicated space economy hub in India. Narayan holds a PhD in Supply Chain Management and is educated in India, Germany, Sweden and France. He previously served as an Associate Research Fellow at the European Space Policy Institute where he contributed to enhancing cooperation between Europe and India in space. He has authored over 100 publications in various national and international outlets. He is also an elected member of the International Institute of Space Law, awardee of Emerging Space Leaders by the International Astronautical Federation and host of the NewSpace India podcast.



**National Space Agency
Taiwan**



Nico van Putten
Deputy Director
Netherland Space Office (NSO)

Nico van Putten is Deputy Director of the Netherlands Space Office (NSO) since 2007.

He is one of the Dutch members in the delegation for the Council of the European Space Office (ESA) and is delegate in the Industrial Policy Committee of ESA. His main task there is to come to a fair Industrial Policy within ESA and to support Small and Medium Enterprises (SME) besides the well-known big Primes.

At the moment he leads the program within NSO to Strengthen the position of the space industry as supplier and (sub)system manufacturers and services. Besides this the program promotes the use of data in an international environment.

In the past he worked in (Dutch) industry and before that almost 20 years at the Ministry of Economic Affairs. In total his experience with space sums up to almost 40 years.

He is a profound supporter of international collaboration with the aim that it will benefit all parties involved.



Nitish Kumar Singh
Co-founder & CEO
Astrogate Labs

Mr. Nitish finished his Aerospace Engineering Degree from Indian Institute of Technology, Kharagpur in 2014. Post graduation, he started his career in space technology at Team Indus where he led the Mission Planning and Operations team and contributed in the capacity of Space Systems Engineer for the sole Indian entrant in the Google Lunar X-Prize Mission. TeamIndus ended up being in the top 5 teams in the prestigious, international GLXP competition.

Being passionate about space technology Nitish later cofounded Astrogate Labs in fall 2017, a space-technology startup from India, where he and his team are currently developing laser communication terminals and ground network for satellite communications.

His current venture, Astrogate Labs has completed the development of their indigenous Smallsat Laser Downlink Terminal “one of the industry’s smallest optical communication terminals” and is preparing to launch its first space-to-ground tech-demo mission in 2022 along-with the first optical ground station in Australia. The company is working on full-stack laser communication systems for high-speed and secure communication access to every space asset. Since inception, Astrogate has gone on to accomplish

- Recipient of India Innovation Growth Program 2.0 2019 (tripartite initiative of the Department of Science and Technology (DST), Lockheed Martin and Tata Trusts)
- Also incubated at Australia Venture Catalyst Space Program, collaboration with Australian university for setting up laser ground stations.
- Space-tech startup from India in the Indo-US STARTUP Delegation, 2019. Astrogate has plans to support the growing satellite data downlink need with a network of optical ground stations and in-space relays using the systems developed in-house.



P Sreekumar (Dr)
Former Director, SSPO
ISRO



Pavan G Ranga

Chairman, Rangsons LLP
CEO, Rangsons Aerospace

Mr Pavan Ranga is a third generation entrepreneur and Director of NR Group, a diversified business group based in India with over 3200 employees. NR Group has interests in FMCG, Natural Extracts, Aerospace and Healthcare Solutions. He is the Director of N. Ranga Rao & Sons, makers of Cycle Pure Agarbathies, the world's largest incense brand. NR Group has presence in over ten countries around the world.

Mr Pavan is a successful serial entrepreneur. In 2000, he founded Rangsons Electronics, a leading Electronics system Design & Manufacturing company in India. After achieving a successful exit for Rangsons in 2015, he established Rangsons Aerospace, a leading product technology and solutions provider to the global Défense and Aerospace industry. He then established MindfulTMS Neurocare, the world's first global chain of Psychiatric clinics with presence in US, EU and India. In 2018, Rangsons entered the education technology space with the acquisition of Testprep, an Education test and assessment company.

Mr Pavan Ranga has been fostering technology build up in the Country through strategic business initiatives and investments and through VC and Private equity placements. He has investments in Retail, Banking and Technology companies. He serves on the Boards of several companies – Rangsons Aerospace, Bazaar Kolkata, Ripple Fragrances, Senzopt Technologies, to name a few.

Mr Pavan Ranga has had the distinction of being ranked 26th in “the most influential people globally in the Electronics Manufacturing industry” in the survey conducted by the renowned research organisation Venture Outsource. He has been a prominent member of several industry associations such as CII, FICCI and SMTA. He is currently the Chairman of CII, Mysore. He serves on the governing council of SDM-IMD, a leading business school in South India and is a member of the Society of National Institute of Engineering, Mysore. He is a member of the Board of Young Presidents Organization (YPO), Bangalore since 2013. Mr. Pavan is an adviser to KDEM, a Government of Karnataka initiative to make the state an attractive destination for global investors. He is Co-Owner of Mysuru Warriors, a franchise of Karnataka Premier Cricket League.

As a proponent of ethical and value based business, Mr Pavan Ranga is driving several philanthropic initiatives such as Rangarao Memorial school, a non-profit residential school for visually challenged girls from economically disadvantaged background, and NR centre for community development, a training and development centre for the specially abled with the objective of integrating them into mainstream development

process.

Mr Pavan Ranga holds a bachelor's degree in Industrial and Production Engineering from Sri Jayachamarajendra College of Engineering, an MBA from Illinois Institute of Technology, Chicago and has done an Executive Management Program at Harvard Business School, USA.

Mr Pavan Ranga is an avid wild life photographer and is also passionate about tennis, yoga and trekking. Following his interests, he has trekked up Mt. Kilimanjaro and the base camp of Mount Everest. Mr Pavan Ranga lives in Mysore, with his wife Shruthi and daughters Diya & Aditi.



PJ Nath
Managing Director & CEO
NELCO

Mr. Nath joined Nelco as Chief Executive Officer in 2011. He holds a graduation degree from BITS Pilani in Master of Management Studies (MMS). He has a rich experience of over 35 years in Enterprise Market in reputed IT & Telecom service companies including ICIM, Wipro, Tata Communications and SIFY.

Prior to joining Nelco, Mr. Nath was an Executive President - Enterprise Business with Sify Technologies Ltd. (a NASDAQ Listed Company) mainly focused on IT, SI and Telecom Services.

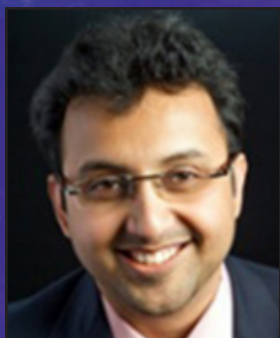


Prashant H. Butani

Senior Sales Director -Sales
MEASAT Satellite System Sdn.Bhd.

Prashant H. Butani is MEASAT's Senior Sales Director. In his role, Prashant supports pre-sales, sales, post-sales and online & offline marketing activities of MEASAT's satellite services. He has over 15 years of experience in the satellite and telecommunications industry in pre-sales, project management, market research, strategy consulting and business development.

Prashant holds a B.E. (Information Technology with Satellite Communications) from Mumbai University. He has also completed a Masters of Science in Satellite Communications Engineering from University of Surrey, United Kingdom.



Prateep Basu
Founder
Satsure Ltd

Prateep Basu is the co-founder and Chief Executive Officer at StatSure Ltd, a decision analytics startup that is working on solutions to enable technology access for financing in agriculture, clean energy, and sustainable development programs globally. He is a seasoned space industry professional with work experience in both the business and technology front. An aerospace engineer from the Indian Institute of Space Science and Technology, Trivandrum with post-graduation in Space Studies from the International Space University, Strasbourg, Mr. Basu has worked as a scientist in ISRO, and as a geospatial industry analyst at Boston based Northern Sky Research (NSR), prior to starting Satsure.



PV Venkitakrishnan (Dr)
Satish Dhawan Prof
ISRO

Dr. Venkitakrishnan joined ISRO in 1983 and worked as a Director Capacity Building Program Office (CBPO) in ISRO HQ. Earlier in 2017, he was Associate Director (Projects) in VSSC, Trivandrum. In 2016 December, he worked as Director, IPRC, Mahendragiri. From 2015 June onwards, he led the Materials and Mechanical Entity of Vikram Sarabhai Space Centre (VSSC) as its Deputy Director. From 2010 August onwards, he worked as Deputy Director (Materials and Manufacturing Entity) in Liquid Propulsion Systems Centre (LPSC), ISRO, Trivandrum, Kerala. Prior to this, he worked as Dy Project Director for Materials and Manufacturing in GSLV Mk3 project in VSSC from 2002. Prior to that, he worked in MME/VSSC from 1983.

He Was Selected to ISRO level Space Generation Task Group (SGTG) to chart out ISRO's 20 year's future programme in 1996 and selected to 25 member ISRO Strategic Group (ISG). He has got 35 years of experience in the Aerospace Materials & Manufacturing field. He has also contributed in the area of non metallic materials like ceramic and glass ceramics, Thermal Barrier Coatings and high end insulation materials. He is National President of "Society of Aerospace Manufacturing Engineers", Trustee Member "SIAATI", Member Board of Directors NIT Agarthala, Member of various professional bodies, Fellow of Institute of Engineers (India) and Fellow of Indian Institute of Metals.

He is recipient of "Anweshak" Award from Society of Aerospace Manufacturing Engineers(SAME) for the year 2009, "ISRO Team Excellence Award " for the year 2010.-Member, "ISRO Individual Merit Award for excellence" for the year 2011, "ISRO Team Excellence Award" for the year 2012.-Team Leader, "ISRO Team Excellence Award" for the year.

2013.-Team Leader, "ISRO Team Excellence Award" for the year 2015.-Team Leader, ISRO Performance Excellence Award for the year 2016, Dr Biren Roy Trust Award from Aeronautical Society of India 2017, Lifetime Achievement Award from Rotary Club, Chennai for 2018, and Dr. S B Firke Endowment Award from ASM International for 2018. He is a distinguished alumnus from IIT Chennai for the year 2017.



R. Kumar (Dr)
Associate Director
DFRL Mysore

Dr. R. Kumar has completed his M. Sc. and PhD in Food Science and he is currently working as Head, Food Engineering & Packaging Technology Division in Defence Food Research Laboratory, DRDO, Mysore. He has over 26 years of experience in food packaging, thermal and non thermal processing technologies.

He has developed MRE ration for Army & Navy, developed degradable packaging material, Personal Survival Pack (PSP) items to Air Force and Navy. He has carried out 20 user acceptability field trials at different Army, Navy and Air Force units. He has involved in technology transfer of Retort processing of RTE foods to 83 industries, tender coconut water processing to 28 industries for commercialization.

Presently he is heading Space Food programme of DFRL, Mysore for proposed Gaganayaan mission which is collaborated between ISRO and DRDO.

Dr. R. Kumar has owned so many awards like, DRDO cash award (1999), DRDO Technology Group Award for the Preservation & Packaging of Tender Coconut Water (2003), DRDO Performance Excellence Award for Retort Pouch Processing of Ready To Eat Foods (2004), Dr.Vasundhara Memorial Best Research Paper Award (2007), Best Review Paper Award (2007, 2017 & 2018), Best Research Paper Award (2007, 2008 & 2009), Best Poster Award (2007 & 2014), Laljee Godhoo Smarak Nidhi Award (2007), DRDO Technology Group Award (2011,2014 & 2019), Thomas Edison Award (2014) in Food Technology, National Technology Innovation Award (2019) by Ministry of Chemicals, Fertilizers, Govt of India.

He is scientific panel member of the Food Safety Standards Authority of India (FSSAI) and BIS. He is closely associated with several scientific/technological institution and government departments in India. Some of the professional bodies like Life Member, Association of Food Scientist and Technologist (AFST, India), Institute of Food Technologists (IFT, USA), Fellow, Institute of Food Scientists & Technologists (IFST, UK), Life Member, Association of Microbiologists of India (AMI), Life Member, Indian Meat Science Association, Association of Carbohydrate Chemists & Technologists (India) and American Society for Microbiologist.

Dr. R. Kumar is having patents, in which 9 are granted and 12 patents are filed. He has written 6 book chapters for reputed books related to food science, food packaging and army ration. He has published more than 80 numbers of research papers in international journals, He has more than 120 presentations in National, International

seminars/ conferences. He has guided B. Tech in Food Science and Technology (10), B. Tech in Food Process Engineering (4), M. Sc in Food Science and Technology (22) and M. Tech in Food Engineering and Food Technology (12) for their project work. Guided 1 PhD Student and currently guiding 3 PhD students.



R Umamaheshwaran

Scientific Secretary
ISRO and Incharge (IN-Space Activities)

Anthony Murfett is Deputy Head of the Australian Space Agency, where Anthony has oversight of strategy, policy and day-to-day operations and supports the Agency Head in monitoring the performance of the Agency.

Anthony has worked as Minister Counsellor, Industry, Science and Education at the Australian Embassy in Washington DC and as General Manager of the Growth Centres Branch within the Department of Industry, Innovation and Science in Canberra. Anthony ensures the Agency delivers on its purpose to transform and grow a globally respected Australian space industry that contributes to productivity and employment across the Australian economy.

Dedicated to purpose, Anthony brings an entrepreneurial spirit to the Agency, valuing partnerships while drawing strength from diversity and pushing the boundaries of our knowledge.



Rajan Navani
Chairman
CII India@75 Council

Rajan Navani, Vice Chairman & Managing Director, Jetline Group of Companies

Rajan Navani is the Vice Chairman & Managing Director of the diversified Jetline Group of Companies, with primary manufacturing operations in textiles and packaging, the roots of which originate back to the 1930's in Bangkok, Thailand and a presence in India since 1974.

The group has recently made significant investments and is building new age businesses in powering varied consumer-facing digital platforms, products and services through group company 'Jetsynthesys'. Rajan is personally providing leadership and strategic direction to the company with operations in India, MENA, SE Asia, UK, Japan and USA. The group now has operational businesses in new age digital media, entertainment and in categories including short format video & music, OTT, gaming, e-sports, classifieds, cricket, mobility, mindfulness and healthcare. The group is also building artificial intelligence, blockchain and AR/VR/MR/XR led Industry 4.0 solutions to strengthen enterprises globally. Additionally, through the combination of Jet Ventures & JetLabs, powered by 'Garage', the group is engaging deeply with the startup ecosystem in India, Israel, Singapore, UK, Japan & USA.

Rajan is currently the Chairman of the Confederation of Indian Industry's CII National Council on India@75, Founding National Chairman of CII's Council on Future Businesses, the Past National Chairman of CII Young Indians and is a member of CII's National Council for the past 15 years. Rajan is a founding trustee of the India@75 Foundation, a global board member of the US-India Business Council, founding board member of Indiaspora and a member of the Purdue-India Executive Council. He is a Government of India, under PM Modi, nominated CEO of the India Japan Business Leaders Forum and the India Sweden Business Leaders Forum. He is also the Co-Chairman of the India Singapore Strategic Dialogue supported by the Ministry of External Affairs, India. He is the first National President of the Indian Digital Gaming Society and a trustee of Aspen's Ananta Centre in India, a fellow of the Aspen India Leadership Initiative 2011–2012 and member of the Aspen Global Leadership Network. He is also a BMW Herbert Quandt Foundation's Young World Leader, a CNBC India's Young Turk and part of the ASEAN 100 Leadership Forum.

Rajan holds a master's degree in electrical engineering from Purdue University, West Lafayette, USA, under a NASA grant, majoring in Digital Satellite Imaging and Remote Sensing graduating with the award for outstanding academic achievement. Prior to

joining the family business, Rajan worked with NASA's Goddard Space Flight Centre in Maryland, USA. A gold medalist at the University of Poona, India in the Bachelors of Electronics and Telecommunications program from College of Engineering Pune (COEP), Rajan also holds a diploma in Business Management. He and his wife Sheetal are blessed with two daughters, Ilina and Arusha.



Rajkumar (Dr)

Director

National Remote Sensing Centre(NRSC), ISRO

Dr Raj Kumar, presently Director National Remote Sensing Centre, Hyderabad, ISRO received his Ph.D. in Physics from Lucknow University. With more than 35 years of experience, leading the team of scientists and engineers from various disciplines, with the mandate for establishment of ground stations, generation of data products, dissemination to the users, development of techniques for remote sensing applications including disaster management support, geospatial services for good governance and capacity building for professionals, faculty and students. He has primarily carried out research towards the effective utilization of space technology, especially microwave remote sensing, for the studies of ocean, atmosphere and climate for societal benefits.

He has more than 100 publications in peer reviewed Journals of International repute and leading many young researchers towards their Ph.D. He has been awarded Satish Dhawan Award by Indian Society of Remote Sensing, Hariom Ashram Prerit Vikram Sarabhai Award by PRL, Ahmedabad, P R Pisharoty Award by Indian Society of Remote Sensing, and ISRO Team excellence award. He is also Senior Member of IEEE.



Rakesh Sasibhushan

Chairman, CII National Committee on Space;
Chairman & Managing Director
ANTRIX Corporation

Shri Rakesh Sasibhushan, is a Distinguished space scientist and currently the Chairman & Managing Director of ANTRIX Corporation. He's also Chairing the CII National Committee on Space for the past 3 years. Prior to this assignment, from 2015 to 2016 he was the Director of ISRO's Propulsion Complex, at Mahendragiri, Tamil Nadu, and from 2011 to 2015 he was the Dy. Director of Vikram Sarabhai Space Centre heading the Composites Entity. ISRO's CE20 cryogenic engine testing activities were completed at Mahendragiri under his leadership. He was also instrumental in setting up critical facilities for Semi-cryo engine assembly & testing, as well as optimizing the productivity of PSLV & GSLV Engine & Stage assembly activities at Mahendragiri.

He has 35 years of experience in the Space technology & global space commerce. He completed his M.Tech in Manufacturing Management while in service. He has three joint patents in the area of Advanced Manufacturing - in Laser welding, Metallic Thermal Protection systems and Silica Tile processing.

He is a recipient of ISRO Team award 2011 and Merit award 2012.

He has written several articles on Indian Space and teaming with PwC has published a position paper on Indian Space sector.

He's an avid naturalist and a life member of BNHS.



Rakesh Sood

Distinguished Fellow
Observer Research Foundation (ORF)

Rakesh Sood is a Distinguished Fellow at Observer Research Foundation (ORF), New Delhi. He joined the Indian Foreign Service in 1976, first serving in Brussels, Dakar, Geneva, and Islamabad in different capacities, and as Deputy Chief of Mission in Washington, D.C. At the Ministry, he set up the Disarmament and International Security Affairs Division in the Foreign Ministry and led it for eight years. He has served as India's first Ambassador and Permanent Representative to the Conference on Disarmament in Geneva and later as Ambassador to Afghanistan, Nepal and France. After retiring in 2013, Ambassador Sood was Special Envoy of the Prime Minister for Disarmament and Non-proliferation, a position he held until May 2014.



Ranganath Sadasiva

Chief Technology Officer, Hybrid IT
Hewlett Packard Enterprise

Ranganath Sadasiva Chief Technology Officer, Hybrid IT Hewlett Packard Enterprise
Ranganath Sadasiva is the Chief Technology Officer, Hybrid IT for Hewlett Packard Enterprise, India. Ranganath is responsible for bringing in thought leadership across HPE Hybrid IT business and delivering best in class technology experience for customers. He works closely with the enterprise segments, understanding their business and technical needs, developing HPE's point of view aligned to HPE Technology Vision. With more than 26 years of experience in the technology industry, Ranganath is an accomplished Technologist and Management Executive across core ICT technologies working predominantly in the India and Asia Pacific & Japan region. He has done various customer centric roles across Sales, Product development and Consulting in these geographies. Before joining HPE, Ranganath served as Director, Enterprise Research for IDC India and was responsible for the overall Enterprise research in areas including Hardware - Server, Storage and Networking, Enterprise Software, Enterprise Services, and emerging technologies like Cloud, IoT, AI, Big Data etc. Prior to IDC, Ranganath served as Regional Sales Director for Spectra-APJ and EMEA and earlier as Director, Product Management, Asia Pacific, and Japan for HPE Storage. He has also held management roles with HCL Infosystems and CADD Centre. Widely known in the Industry for his insights on Technology and its articulation, he is a regular speaker at Customer & Industry forums. He is also a Mentor of change with Niti Aayog, Government of India. Ranganath Sadasiva has a Master of Business Administration Degree in Marketing from Bangalore University and a Bachelor of Engineering Degree in Electrical Engineering from BMS College of Engineering, Bangalore.



Rohan Verma
CEO & Executive Director
MapmyIndia

Rohan Verma is the CEO & Executive Director of MapmyIndia. He received his bachelor's degree in electrical engineering from the Stanford University, U.S.A., in 2007, where he was awarded the President's Award for academic excellence. He received his master's degree of business administration with distinction from the London Business School, in 2015, where he was awarded the Dean's List Award. He has significant experience as an entrepreneur in the digital mapping, geospatial technologies and automotive mobility technologies. As a 19-year-old, he built India's interactive internet mapping portal, MapmyIndia.com, in 2004, while still an undergraduate at the Stanford University. He currently serves as a member of the Confederation of Indian Industry National Committee on Space and represents our Company as a core member in the Indian Space Association. He also serves on the Internet and Mobile Association of India's (IAMAI) Logistics Committee. He has also been elected and serves on the CII Delhi State Executive Council. He is an independent director on the board of directors of Cholamandalam Investment and Finance Company (listed on BSE and NSE), the financial services arm of Murugappa Group.



Rohan M Ganapathy
Director
Bellatrix Aerospace

Rohan M Ganapathy is CEO & CTO of Bellatrix Aerospace, a new space company (incorporated in 2015) involved in indigenous development and manufacture of advanced in-space propulsion systems. He is an Aeronautical Engineer and his areas of work include electric propulsion rocket propulsion and space systems engineering. Rohan developed and patented the Microwave Plasma Thruster, an advanced type of electric propulsion system that runs on water as propellant and offers various advantages compared to existing technologies. He was also featured under 'Forbes 30 under 30' lists for India and Asia in 2018. Rohan was selected part of 'Club Young Leaders 2020' by the Government of France and was also listed on 'Deccan Herald Changemakers 2020' list. Bellatrix Aerospace has also supplied Microwave Plasma Thrusters to ISRO for their application. Bellatrix was awarded the TDB National Award 2017 from the Hon'ble President of India for development of technology with potential for commercialisation. Bellatrix has raised \$3 million in funding from Indian investors to support space qualification of its propulsion systems.



S Somanath

Distinguished Scientist & Director
Vikram Sarabhai Space Centre, ISRO

Shri S. Somanath presently functions as the Director, VSSC, the lead Centre responsible for Launch vehicle technology development. He has been the Director of Liquid Propulsion Systems Centre (LPSC) at Valiamala, Thiruvananthapuram till December 2017. He was the Associate Director (Projects) of Vikram Sarabhai Space Centre and also the Project Director of GSLV Mk-III Launch vehicle. Under his leadership as the Project Director, the first Experimental flight of LVM3-X/CARE mission was successfully accomplished on 18th December, 2014.

He joined VSSC in 1985 and was a team leader for Integration of PSLV during the development phase. As Project Manager, PSLV he handled areas of mechanisms, pyro-technique systems, integration and satellite launch service management during PSLV continuation program till the launch of PSLV-C4. He conceived and executed the first time launches of commercial mini satellites and developed small satellite mounting and separation systems which have successfully deployed many commercial satellites in PSLV.

He joined GSLV Mk-III Project during 2003 and was the Deputy Project Director responsible for overall design of the vehicle, mission design, structural design and integration.

Shri Somanath is an expert in the area of system engineering of launch vehicles. His contributions in PSLV and GSLV Mk-III were in their overall architecture, propulsion stages design, structural and structural dynamics designs, separation systems, vehicle integration and integration procedures development. He has been the Deputy Director of the 'Structural Engineering' Entity in VSSC and also the Deputy Director of 'Propulsion and Space Ordnance Entity' in VSSC till November, 2014.

As Director, LPSC he led the team to complete the development and qualification of CE20 cryogenic engine and the C25 stage and was successfully flown in GSLV Mk-III D1 flight. The development of throttleable engines for lander craft of Chandrayaan-2 was an important development. First time successful flight of 18mN thrust electric propulsion system in GSAT-9, development of 75mN and 300mN thrust Stationary Plasma thrusters were accomplished under his leadership.

He assumed the charge of Director, VSSC in January 2018. Under his leadership, VSSC has achieved significant feats like Crew Escape System demonstration through Pad Abort Test (PAT), launch of GSLV Mk-III M1/Chandrayaan 2, launch of 50th

PSLV, PS4 orbital platform experiments etc. Currently, he is spearheading the centre for development of critical systems including crew module systems, human rating of GSLV Mk-III, integrated vehicle health monitoring system, etc., for the upcoming Gaganyaan mission. He mentors the development of Small Satellite Launch Vehicle (SSLV) with various innovative technologies and production methodologies for cost and time optimisation.

Shri Somanath took his B. Tech in Mechanical Engineering from TKM College of Engineering, Kollam and Masters in Aerospace Engineering from Indian Institute of Science, Bangalore with specialization in Structures, Dynamics and Control.

He is a Fellow of Indian National Academy of Engineering (INAE), Fellow of Aeronautical Society of India (AeSI), Astronautical Society of India (ASI) and a member of International Academy of Astronautics (IAA).

Shri Somanath has widely travelled as delegate and representative of India in UN-COPOUS at Vienna, International Astronautical Federation (IAF)'s International Program Committees, International Astronautical Congress (IAC) held at different countries. He is the Vice President of IAF in charge of the Technical activities and a member of the Technical committee for Space Transportation and International Project/ Programme Management Committee.



Sathyan Subbiah

Coordinator
Extra Terrestrial Manufacturing Research Group
IIT Madras

Prof Sathyan Subbiah is currently working as a professor in the Department of Mechanical Engineering at IIT Madras. He teaches, undertake research, and provide professional services in the field of manufacturing engineering.

His current activities include Teaching Modelling and Simulation in Manufacturing, Automation in Manufacturing. Exploring research in space manufacturing, diamond coatings/membranes, novel manufacturing processes, triboemissions, and graphene exfoliation.

He also worked in Micro-milling thin sheet embossing molds, graphene exfoliations, vibratory media finishing process monitoring, compliant abrasive tool polishing process development.



Shaju Stephen

Chairman & Managing Director
AADYAH Aerospace Private Limited

Shaju Stephen is the Chairman and Managing Director of AADYAH Aerospace Private Limited, Bangalore, an employee-owned Space Technology company. AADYAH's technology team led by Indian Space Program scientists focus on cutting edge Integrated Technology Platforms technologies for Launch Vehicles, Satellites and Space Debris.

He is also an investor and mentor of Tecverge Technology Solutions, Bangalore which focuses on Identity Management and Home Automation.

Earlier he was Managing Director & CEO of SENER India, the Indian subsidiary of a Spanish multi-national engineering company. In SENER India, he successfully setup and ran 4 Business Units of SENER: Aerospace and Defence, Infrastructure and Transport, Energy and Process and Marine Engineering. Prior to SENER, he ran SNS Ventures JLT, Dubai, his own Renewable Energy Investment Advisory business. During this period, he was an Advisor to Element Power, UK; Intercon Energy, Finland and Juma sPa, Poland.

Earlier, he was Investment Manager at MASDAR, Abu Dhabi, the renewable energy investment arm of the sovereign wealth fund, Mubadala in Abu Dhabi. He led Masdar's US\$100 Million plus investments in Torresol Energy Investments SA, Spain and WinWinD Oy, Finland. He was a Member of the Board on these investee companies.

He attended the Advanced Management Program(AMP) at Harvard Business School and MBA from University of Hull, UK.



Shaunak Shah
Director
Komoline Aerospace

Shaunak Shah is the chairman of Group Automation, a technology driven group focused on aerospace and defence manufacturing and electrical/electronic test and measurement solutions.

For the past two decades, having led a highly technical and analytical team, he has become skilled at handling stake holders to produce profitable win-win results. His expertise today lies in technology consultation for the space domain.

He is actively involved in the technology startup-ecosystem. He serves as a mentor and advisor to various startups using his foundation of experience in the technology field and ability to have built multiple businesses.

In addition he is also involved in fostering an innovation culture in the society by being a founder trustee with Gujarat Innovation Society (GIS), founder member of GTU Innovation Cell, a committee member for Ahmedabad Management Association (AMA)

With the vision of helping the next generation entrepreneurs, at present Shaunak is researching his first book focused in the area of building technology driven empires in the field of aerospace.



Srinath Ravichandran
CEO
Agnikul Cosmos

Srinath is a Bond trader turned Aerospace Engineer with over 10 years of experience in Engineering, Finance, and Project Management. He has a Bachelor's degree in Electrical Engineering from the College of Engineering, Guindy and Master's degrees in Financial Engineering from Columbia University and Aerospace Engineering from the University of Illinois at Urbana Champaign. Srinath believes in using his multidisciplinary experience to solve large scale problems that humanity faces today. He is deeply passionate about space and started Agnikul with the basic idea that going to space shouldn't be the hardest part of living in and working from space. When he is not working on Agnikul related projects, he spends his time following the film industry and trying to write screenplays.



Subba Rao Pavuluri (Dr)

Chairman & MD
Ananth Technologies

Dr. Subba Rao Pavuluri is a technologist and an entrepreneur with extensive experience in Indian Space Program (ISRO) for over four decades. He was one of those early pioneers of private industry in high technology areas. He founded “Ananth Technologies Limited (ATL)” in 1993 for Design, Development and Fabrication of highly reliable systems and sub-systems for Indian Space Programme (ISRO) and Indian Defence. ATL has now grown to an entity of 1500 of highly qualified and skilled technical personnel and is the recipient of several technology excellence awards.

ATL has facilities located in Hyderabad, Bangalore and Thiruvananthapuram and has contributed so far for 88 satellites and 67 launch vehicles for Indian Space Programme. ATL is the first private industry to set up assembly, integration and testing facilities for satellite and launch vehicles.

Dr Rao is endeavouring to bring out the full potential of satellite communication systems, especially for country of the size and diversity like India, for various applications and in tapping new areas of applications.

He is currently the Chairman and Managing Director of ANANTH TECHNOLOGIES LTD. (ATL) and holds B.E., M.E., Ph.D.



Tirtha Pratim Das (Dr)

Director
DTD

Dr. Tirtha Pratim Das is the Director of the Science Programme Office, ISRO Headquarters, Bangalore, India. Dr. Das started his career in ISRO as a launch vehicle technologist in Vikram Sarabhai Space Centre, ISRO, and contributed to the PSLV and GSLV missions. Subsequently, he played significant role in the Planetary Exploration programme of ISRO and contributed to the scientific exploration of Moon and Mars in Chandrayaan-1, 2 and Mars Orbiter Missions. In the pursuit of disruptive technologies in ISRO, Dr. Das has also been instrumental for the development of disruptive and futuristic space technologies for the new decades.

Dr. Das is an alumnus of the Department of Physics, St. Xavier's College, Kolkata, and Institute of Radiophysics and Electronics, University of Calcutta. He earned his Ph.D. on the lunar exosphere from Cochin University of Science and Technology while working as a scientist in the Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO.



Tom Segert
Director
Azista-BST-Aerospace

Tom is the visionary behind Berlin Space Technologies (BST). He is fostering space industry that is truly commercial since almost two decades. Many activities which he pioneered in the early 2000s are today known under the umbrella of New Space. His goal is to bring about the Henry Ford Moment for Space. To this end he steered the research focus of BST towards technologies enabling mass manufacturing for satellites. As a logical step to implement his vision he has built a factory in collaboration with Azista Industries in India. This joint venture, called Azista BST Aerospace is an Indian company with an annual capacity to manufacture 250+ satellites (50-150kg).

He started his foray into the space industry as project manager for the Dobson Space Telescope (DST) at TU Berlin in 2002. Under his guidance DST acquired research funding from ESA's advanced project team, was flying on an ESA parabolic flight campaign and made the spin-off in 2006. After that he took position as the innovation manager for the space industry in Germany's capital and subsequently co-founded Berlin Space Technologies in 2010. His work enabled BST to attract commercial customers, to not depend on government funded R&D and thus establish itself as one of the worlds leading New Space companies. In 2020, Tom was recognised as a leader in the global space industry - Karman Fellow (one of 15 globally).



Upendra Kumar Singh (Dr)
OS/Sc 'H' & Director General - Life Sciences (LS)
DRDO

Dr Upendra Kumar Singh appointed as DG(LS) on 30 June 2021. Dr Upendra Kumar Singh as additional charge of Director, CAIR, DRDO, Bangalore. He has been Director of CAIR, DRDO from 1st Jun 2019. Prior to this assignment, he was Director, DEBEL, DRDO, Bangalore from 1st Jan 2015 to 31st May 2019. He was Project Director (Weapon Systems) for Ballistic Missile Programme RCI, DRDO, Hyderabad from Jul 2012 to Dec 2014.

Dr U K Singh did his M.Sc and M.Tech degree in computer Science from DAVV, Indore and obtained his doctorate from University of Hyderabad on soft computing. Starting his career in ATV Project in Ship building Centre (SBC), Visakhapatnam in Oct 1989, he moved to NSTL in 1992, where he worked for system simulation and embedded software development of On-Board Computer (OBC) of light-weight and heavy weight torpedoes. He joined Programme AD at RCI, Hyderabad in Sep 2001.

During his 33 years of service so far Dr Upendra Kumar Singh has closely worked with Indian Industries, academia and foreign firms for the realization of Advanced Weapon Systems for the Services. As Director, DEBEL, he was engaged in meeting critical requirements of the Indian Armed forces Services in steering and guiding in the development of many Life-Support Systems such as Protective equipment and Integrated Life saving system for LCA Aircraft – Tejas, Under water Submarine Escape System, Individual Under Water Breathing Apparatus, NBC Protective Equipment and many Bio-medical devices and equipment such as Telemedicine for Navy & Army, wearable soldiers physiological monitoring system, Military grade Portable Physiological Parameter Monitor and high altitude life saving devices.

A propagator of self-reliance, he has successfully spearheaded Transfer of Technology (ToTs) to many industries and encouraged private and public institutes participation in development and product activities.

He is also the Chief Executive Officer (CEO) of the Society for Biomedical Technology (SBMT) started by Dr APJ Abdul Kalam to help the common man with development of affordable biomedical devices. A staunch supporter of indigenous and affordable health care development, as CEO of this society, he spearheaded many products such as Cochlear Implant, MEMS Intracranial Pressure monitor and Electrocardiography sensors, External counter Pulsator, Virtual Laparoscopic Simulator, and Above Knee Prosthesis to get into the clinical trials and transfer of technology to Industries.

He has published many Papers in Journals to National / International Conferences. He is a recipient of DRDO Award for Path Breaking Research / Outstanding Technology Development & Laboratory Scientist of the Year Award (Lab Level- DRDO Award). He is a Life member of the Institution of Electronics and Telecommunications Engineers (IETE), Computer Society of India (CSI) and Aeronautical Society of India (AeSI).



Unnikrishnan Nair S (Dr)

Director, Human Space Flight Centre
ISRO, Bangalore, India

Dr. Unnikrishnan Nair S., Director, Human Space Flight Centre, ISRO, Bangalore, India

- Serving ISRO since 1985
- Qualification: PhD in Mechanical Engineering
- Professional experience: Advanced space transportation systems, Acoustic protection system, Aerospace mechanisms, Re-entry & Recovery technologies, Technologies for Human space flights

Awards/Accomplishments:

- a) ISRO Team excellence award for contributions to Space Capsule Reentry experiment in 2007.
- b) ISRO Excellence award twice as Team leader for (i) Crew Module Atmospheric Reentry Experiment (CARE) in 2014 and (ii) Crew Escape System Pad Abort Test in 2018.
- c) ISRO Individual Merit award in 2014 for contributions towards technology development for Manned space mission.
- d) Honorary doctorate in 2019 for the outstanding contributions to human space flight activities

Other Achievements:

- Co-authored and Edited a book for International Academy of Astronautics
- Co-Edited Special issue of Journal of Aerospace sciences and technologies
- Edited text book on Introduction to Finite Element Analysis (under publication)

Authored several papers including 12 for international journals/conferences



Vinod Chippalkatti

President, Strategic Electronics BU
Centum Group

Vinod S Chippalkatti is the President, Strategic Electronics Business Unit (SEBU) at Centum Electronics Limited, Bangalore.

He has master's degree in engineering from Indian Institute of Science, Bachelors in Electronics and Communication from NITK-Surathkal and has Post Graduate Diploma in Intellectual Property Rights Law from National Law School of India University. He is presently pursuing his PhD. He has overall 32 years of experience. He is a fellow of Institution of Electronics and Telecommunications Engineers (India) and other professional bodies. He has around 100 technical papers at the National and International level. He also has applied for 14 patents.

He served Indian Space Research Organization (ISRO) in Bangalore for ten years working on System Integration of India's Communication Satellites. Subsequently, he joined Centum Electronics in the year 2000 as head of Design and Engineering.

He has been a part of Centum's growth story as a key member of the management team. He is actively involved in Centum scaling-up to be a leading Indian Industry in Design & Manufacturing of High Reliability and High Technology modules, subsystems and systems in Defense, Space and Aerospace segments.



Virginia Kilborn (Prof)
Chief Scientist
Swinburne University, Australia

Professor Kilborn is Swinburne's inaugural Chief Scientist, working to further education, research, policy and equity at Swinburne and beyond. She is also a radio astronomer with the Centre for Astrophysics and Supercomputing at Swinburne University, where her research interests include tracing galaxy evolution by studying the neutral hydrogen gas in galaxies. She is surveying the sky with the next generation radio telescopes, such as the Australian SKA Pathfinder (ASKAP) and the SKA in the future. Professor Kilborn is active in the Australian Astronomical community and is immediate past President of the Astronomical Society of Australia.



Vishwanathan Sahasranamam
Co-Founder & CEO
FORGE

Vish has 20+ years of experience in strategic business planning, product strategy-management-marketing, strategic alliances, and business development. He has 7+ years of resident international work experience in USA, Canada, Sweden, Israel and China.

Over a career spanning professional and entrepreneurial pursuits, having launched new products, businesses and startups, Vish has now taken up the challenge of launching new companies with national-scale economic impact, national capacity building, and technology driven transformation as core purposes.

Vish co-founded Forge with the vision to empower Government, Industry and Academia to exploit strategic opportunities through Innovation powered by Digital, AI and Robotics. By combining futuristic Technology and future-ready Talent, Forge help its partners achieve enterprise excellence outcomes and business growth goals, through co-creation with startups. By harnessing the potential for innovation, creativity and agility of startups, coupled with channelizing them through a highly structured process, Forge aims to help product innovators and startup founders achieve fast paced success in technology, product, business, and growth milestones.

Having clocked several million air miles, flying to more than 100 airports around the globe while travelling for business, Vish hopes to beat that with travel for pleasure accompanying his wife Shilpa - a practising company secretary and corporate law professional, and Avira their daughter.

Vish received his PGDM from IIM-Bangalore in 2010, and his BE degree from CEG-Chennai (Anna Univ) in 2020.



VL Shankar

Senior Vice President
Reliance Jio projects

Mr Vaddella L Shankar has over 38 years of Experience in multiple areas of Satcom including Research & Development; Networks; Hubs / Data Centre; Projects; Operations and Strategy.

ITI Ltd., Bangalore: He started his career as a R & D Engineer at their Radio Engineering Lab in 1983. He worked on multiple Satellite Communication projects for different Depts of Govt. of India like DOT; Defence, DD and AIR.

Setup India's first VSAT system under ITI equatorial Satcom Ltd. Project Manager for Satellite TV Uplinks for DD during Reliance Cup 87 and Defence Ground Stations and mobile terminals.

Comsat Max Ltd: from Nov., 1994 to 2000.

As Vice President & CTO, Setup VSAT services for Comsat Max to provide the best-in class Satellite Technology & services for ATM & financial transactions for Major Banks and Credit card companies. In addition, implemented network solutions for ERP applications for large Corporates etc.

Reliance Industries Ltd: from 2000 till date.

- Joined as a Vice President in the Technology team to implement Satellite networks for ERP systems at RIL.
- Part of the Core Technology team that implemented the Pan India CDMA based 2G Networks for Reliance Infocom Ltd. The world's first Satellite Backhauls were implemented for Reliance Infocomm.
- Set-up Class 4 type - Data Centres & IT Services Delivery systems for Reliance Retail.
- Part of Reliance Jio's Core - Technology & Procurement team that implemented one of the World's Largest 4G Wireless broadband network in India. Currently having over 425 million Online users.
- Digital Headend, Teleport services for Jio TV.
- Has been representing Reliance Jio at ITU-ATP conferences as part of WRC-19 /23.

He is currently working on technology adaption for 5G IMT in multiple bands and convergence of IMT & Satellite Networks for Broadband services.



V T Basker

Scientist & Project Director
GSLV

Mr. V T Basker, 'Outstanding Scientist' is Project Director, GSLV MkIII Project. He has expertise in the fields of Static & dynamic testing, launch vehicle environments, vehicle integration and Systems Engineering. He also has a long experience in launch vehicle dynamics, mechanical systems & vibration isolation.

He has a Bachelor's degree in Physics, B.Tech degree from MIT, Anna University and M.Tech in Machine Design, Mechanical Engineering from IIT, Madras. He joined VSSC in January '87 and was working in Quality Assurance in the field of Static & Dynamic Testing, Vibration Isolation, Avionics Package design, Launch Vehicle Mechanical Systems, Vehicle Integration & Alignment and Launch Activities.

He worked in GSLV Mk III Project as Deputy Project Director looking after Structural and Environmental Testing activities for five years from 2010. Subsequently, he moved to GSLV Project in 2016 as Associate Project Director, looking after Mechanical Systems, Fabrication, Structures, Vehicle Engineering, Vehicle Integration, Stage Auxiliary Systems and Configuration Control. He was also the Team Leader of Structural Analysis Team of Operational Launch Vehicles. From Sep 2017 to May, 2020, he was Project Director, Reusable Launch Vehicle Project before taking over as PD, GSLV MkIII. He has published papers in his field of expertise.



Zaffar Sadiq Mohamed-Ghouse (Dr)

Executive Director
Spatial Vision

Dr Zaffar Sadiq Mohamed-Ghouse, Executive Director, Spatial Vision Zaffar Sadiq Mohamed-Ghouse is recognised as a spatial leader globally. He holds a pivotal role as an adviser to various National and International spatial organisations, including the steering committee of the Australian Space and Spatial Road Map 2030. He has held senior and executive roles at, FrontierSI, GHD and Sinclair Knight Merz, and the Institute of Remote Sensing, Anna University. Dr Mohamed-Ghouse has 22 years' experience in design and management of spatial databases, and the development of spatial analysis techniques and technology for GIS applications in Australia, New Zealand, Malaysia, Indonesia, India and Saudi Arabia

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Confederation of Indian Industry

The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering Industry, Government and civil society, through advisory and consultative processes.

CII is a non-government, not-for-profit, industry-led and industry-managed organization, with over 9000 members from the private as well as public sectors, including SMEs and MNCs, and an indirect membership of over 300,000 enterprises from 294 national and regional sectoral industry bodies.

For more than 125 years, CII has been engaged in shaping India's development journey and works proactively on transforming Indian Industry's engagement in national development. CII charts change by working closely with Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness and business opportunities for industry through a range of specialized services and strategic global linkages. It also provides a platform for consensus-building and networking on key issues.

Extending its agenda beyond business, CII assists industry to identify and execute corporate citizenship programmes. Partnerships with civil society organizations carry forward corporate initiatives for integrated and inclusive development across diverse domains including affirmative action, livelihoods, diversity management, skill development, empowerment of women, and sustainable development, to name a few.

As India marches towards its 75th year of Independence in 2022, CII, with the Theme for 2021-22 as **Building India for a New World: Competitiveness, Growth, Sustainability, Technology**, rededicates itself to meeting the aspirations of citizens for a morally, economically and technologically advanced country in partnership with the Government, Industry and all stakeholders.

With 62 offices, including 10 Centres of Excellence, in India, and 8 overseas offices in Australia, Egypt, Germany, Indonesia, Singapore, UAE, UK, and USA, as well as institutional partnerships with 394 counterpart organizations in 133 countries, CII serves as a reference point for Indian industry and the international business community.

Confederation of Indian Industry

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