



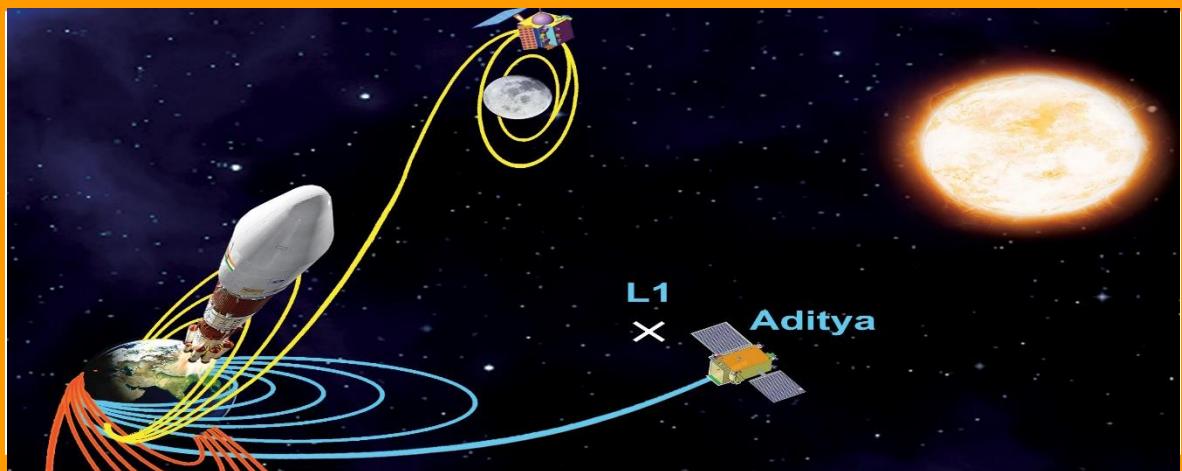
REPORT

WORLD SPACE WEEK-2017 CELEBRATIONS

On 7th to 9th October 2017

Organised by
Sathish Dhawan Space Centre SHAR (SDSC SHAR)

Hosted at
K L University,
Green Fields, Vaddeswaram,
Guntur District, A.P., INDIA.
Pincode: 522 502



Venue: Peacock Hall, K L University

World Space Week 2017 celebrations

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Acknowledgments

This program summary was prepared by Dr. T. Reshma, Assc. Prof., and Mr. K. J. Brahma Chari, M. Tech, (Ph. D), Asst. Prof., Department of Civil Engineering, K L University, as a factual summary of what occurred at the program.

The program Planning Committee's role was limited to planning the meeting. The statements made are those of the Speaker and individual meeting participants and do not necessarily represent the views of all program participants, the organising committee, K L University.

Our sincere thanks to Irrigation Minister Devideni Uma and Mrs Gadde Anuradha ZP Chairperson for participating in the program and for giving valuable speech about the importance of World Space Week for the participate.

I wish to express my deep sense of gratitude to our Sri Koneru Satyanarayana, President, KLEF and for providing facilities to conduct World Space Week, 2017. Honorable Dr. M. Ramamoorty, Chancellor, K L University for giving valuable suggestions for conducting this program.

I must mention our deep sense of appreciation for Sri K. Lakshman Havish, Vice-President and Further, we are greatful to Sri K. Raja Harin, Vice-President, I may like to express our sincere thanks to Dr. L. S. S. Reddy, Vice-Chancellor, KLU encouragement and support in demanding situations.

I am also very grateful to Dr. T. Umamaheswara Rao, Registrar and Dr. A. Jagadeesh, CEO- Admin, KLU for co-operation and support.

I must mention our appreciation for Dr. K. L. Narayana, Dean (R & D), Dr. N. Venkatram, Dean Academics, K. Subba Rao, College of Engineering, Principal, Dr.

K. Sarat Kumar, Dean (P&D), Dr. Habibulla Khan, Dean (Student Affairs), Dr. N. B. V. Prasad, Dean (Placements & Progression), Dr. V. Rajesh, Dean (Faculty & Staff Affairs), Dr. Chadhulal, Dean (Quality) KLU for encouragement and participating in the event.

And, we also would like to acknowledge our gratitude to Prof. In-charge Dr. V Ranga Rao, (HOD, Civil Engineering Department, K L University) for conducting the event smoothly and Mr. Sunil, (GM, MAFSAS, SDSC SHAR). We are very thankful to them for their co-operation, constructive criticism, encouragement and support in inconvenient situations.

Our Sincere thanks to the transportation department for providing busses for all three days to the participants.

We are also thankful to invitations, technical arrangements, stage setting and lighting, musicians, catering, the press and media contacts, et cetera facilities for continuous cooperation and support.

On this note, I would like to conclude my acknowledgement and extend special thanks to our management committee, respected professors, respected parents, beloved students for making this event a memorable day for us. Thanks a lot to one and all directly or indirectly involved in the programme.

This report has been reviewed in draft form by individuals chosen for their diverse perspectives and technical expertise. The purpose of this independent review is to provide can did and critical comments that will assist the institution in making the published report as sound as possible and to ensure the report meets institutional standards for objectivity, evidence, and responsiveness.

Thank you and I wish you all a wonderful day ahead!

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Program Overview

World Space Week 2017

“Exploring New Worlds in Space”

Each year, the World Space Week Association (WSWA) selects a theme for the upcoming World Space Week (WSW) to provide a focus of the activities and events that take a place throughout the world, during 4-10 October. WSWA is pleased to announce the 2017 World Space Week Theme: “Exploring New Worlds in Space”.



World Space Week
October 4 - 10

The 2017 World Space Week Theme is an outward facing theme that serves to inspire the World. It puts as a focal point astrobiology missions like New Horizons (NASA’s first mission to Pluto and the Kuiper Belt); feats on engineering such as Lockheed Martin’s Orion Multi-Purpose Crew Vehicle (NASA’s first spacecraft designed to facilitate long-duration, human-rated deep space exploration of new worlds) and efforts of New Space actors such as Space X (revolutionary space technology projects with ultimate goal of enabling people to inhabit other planets like Mars) and other entities with a vision for exploration and utilization of extraterrestrial resources, such as metals from asteroids, water from the Moon, and unlimited solar energy in Earth orbit.

From the first race to the South Pole, and first solo flight across Atlantic, to the opening of a sea route from Europe to the East, exploration and adventures have always defined our very existence as inhabitants of planet Earth. World Space Week celebrations in 2017 will open-up avenues to improve the vast human knowledge and awareness of the clear benefits of space technology and its applications. This will also illustrate that our exploration potential has no end, and that the sky is not the limit for the many wonders of human discovery. Last year’s inward-looking theme “Remote sensing: Enabling our future” celebrated Earth Observation from the Space for the betterment of human race and witnessed a record-breaking 2700+ events from a total of 86 participating countries.

This made it by far the largest space celebration in history and we hope to surpass that in 2017!

“This year’s theme will enable the debates surrounding where we explore next, be it on Moon, Mars or even beyond, to inspire event organizers to set up exciting space exploration events at schools, universities, science centres, planetaria, astronomy clubs, companies, and even museums. By appealing to our human nature, which loves exploration and adventure, World Space Week 2017 could be the biggest ever.” Anyone, from anywhere in the world, can create a World Space Week event. “Our 2017 theme is to be used as a guideline for creating events, however, WSWA accepts the registration of any space-related events, held between 4-10th October as an official World Space Week event”. WSW event organizers are encouraged to incorporate the theme and poster into their activities and promotional materials.

‘World Space Week’ (WSW) is being celebrated all over the world during 4th to 10th October every year to commemorate significant achievements of space exploration. October 4th, 1957 was the launch of first artificial satellite Sputnik-1 and October 10th, 1967 marks the day on which the UN declaration for peaceful use of outer space came into force. Satish Dhawan Space Centre SHAR (SDSC SHAR), ISRO is celebrating WSW-2017 from 7th to 9th October 2017 at K L University, Vaddeswaram to propagate the benefits of Indian Space program to the nation.

EVENT Highlights:

Organizing Chair: Mr. R Sunil, GM, MAFSAS, SDSC SHAR

Prof. Incharge: Dr. V. Ranga Rao, HOD, Civil Engineering, K L University, Green Fields, Vaddeswaram Guntur Dist., A.P., India, 522 502.

- **Space Exhibition:** Space related materials (scale models of launch vehicles and satellites, panels etc) and videos shall be displayed at the venue. It shall be open to public and entry is free.
- **Space programme awareness Lectures:** Talks on space programmes and its benefits by eminent personalities of ISRO. And also Interactive session with ISRO Scientists.
- **Competitions:** Quiz, posters, paper presentations, drawing competitions on any theme on space.
- **Space Models Competitions:** Models related to space activities and other innovative science and technology projects made by college students shall be brought to venue by the students of engineering colleges (one entry per college) of Krishna district.
- **Audio - Video demonstrations on Space related activities**

About ISRO

India decided to go to space when Indian National Committee for Space Research (INCOSPAR) was set up by the Government of India in 1962. With the visionary Dr Vikram Sarabhai at its helm, INCOSPAR set up the Thumba Equatorial Rocket Launching Station (TERLS) in Thiruvananthapuram for upper atmospheric research.



Indian Space Research Organisation, formed in 1969, superseded the erstwhile INCOSPAR. Vikram Sarabhai, having identified the role and importance of space technology in a Nation's development, provided ISRO the necessary direction to function as an agent of development. ISRO then embarked on its mission to provide the Nation space based services and to develop the technologies to achieve the same independently.

Throughout the years, ISRO has upheld its mission of bringing space to the service of the common man, to the service of the Nation. In the process, it has become one of the six largest space agencies in the world. ISRO maintains one of the largest fleet of communication satellites (INSAT) and remote sensing (IRS) satellites, that cater to the ever-growing demand for fast and reliable communication and earth observation respectively. ISRO develops and delivers application specific satellite products and tools to the Nation: broadcasts, communications, weather forecasts, disaster management tools, Geographic Information Systems, cartography, navigation, telemedicine, dedicated distance education satellites being some of them.

To achieve complete self-reliance in terms of these applications, it was essential to develop cost efficient and reliable launch systems, which took shape in the form of the Polar Satellite Launch Vehicle (PSLV). The famed PSLV went on to become a favoured carrier for satellites of various countries due to its reliability and cost efficiency, promoting unprecedented international collaboration. The Geosynchronous Satellite Launch Vehicle (GSLV) was developed keeping in mind the heavier and more demanding Geosynchronous communication satellites.

Apart from technological capability, ISRO has also contributed to science and science education in the country. Various dedicated research centres and autonomous institutions for remote sensing, astronomy and astrophysics, atmospheric sciences and space sciences in general function under the aegis of Department of Space. ISRO's own Lunar and interplanetary missions along with other scientific projects encourage and promote science education, apart from providing valuable data to the scientific community which in turn enriches science.

Future readiness is the key to maintaining an edge in technology and ISRO endeavours to optimise and enhance its technologies as the needs and ambitions of the country evolve. Thus, ISRO is moving forward with the development of heavy lift launchers, human spaceflight projects, reusable launch vehicles, semi-cryogenic engines, single and two stage to orbit (SSTO and TSTO) vehicles, development and use of composite materials for space applications etc.

About SDSC SHAR

‘SDSC SHAR’ - An island of technological excellence wherein nature co-exists with the Technocrats

Satish Dhawan Space Centre SHAR (SDSC SHAR), Sriharikota, the Spaceport of India, is one of the lead centres of Indian Space Research Organisation (ISRO), Department of Space (DOS), Government of India. The Centre provides world class launch base infrastructure for national and international customers in accomplishing diverse launch vehicle/satellite missions for remote sensing, communication, navigation & scientific purposes and is one among the best known names of the Spaceports of the world today. The space centre, which was popularly known as SHAR (Sriharikota Range) was renamed as Satish Dhawan Space Centre SHAR on September 5, 2002, in fond memory of Prof. Satish Dhawan, former Chairman of ISRO.

The genesis of SDSC SHAR can be traced back to 1960s when the great visionary Dr. Vikram A Sarabhai embarked upon space research activities in the country and envisioned that “we must be second to none in the application of advanced technologies to the real problems of man and society”. To venture on the indigenous development of satellites and their launch vehicles, it was decided to set up a rocket launch station on the East Coast of our country, far from populated areas. Features like a good launch azimuth corridor for various missions, nearness to the equator (benefiting eastward launches) and large uninhabited area for a safety zone have made Sriharikota the ideal location for the spaceport. This spindle shaped island in SPSR Nellore district of Andhra Pradesh, situated in the backwater Pulicat Lake and sandwiched by Buckingham Canal on the West and Bay of Bengal on the East, was chosen in 1969 for setting up the rocket launch station of our country. It became operational on October 9, 1971 with the flight of ‘Rohini-125’, a small sounding rocket. Since then the facilities here were gradually expanded to meet the growing needs of ISRO.

Off Sullurupeta – a small town on the Chennai – Kolkata National highway (NH-5) – a 20 minutes drive towards the East, along the road laid across the Pulicat Lake takes one to Sriharikota. Sriharikota covers an area of about 43,360 acres (175sq.km) with a coastline of

50km. Eucalyptus, casuarina plantation, scrub jungle vegetation (including a few medicinal herbs), groves of coconut & palm and cane breaks around shallow fresh water ponds dominate the landscape of Sriharikota. To offset the increased usage of land and to balance the nature, simultaneous action of forest regeneration has been contemplated and implemented in right earnest. All these measures have helped in the conservation of flora and fauna of Sriharikota.

Both the South-West and the North-East monsoons serve the island. However, the later brings rains during October – December only, thus providing a large number of sunny days suitable for out-door static tests and launch operations. During October – December, thousands of migratory birds visit the Pulicat Lake from faraway places, turning the Sriharikota region into a veritable paradise for ornithologists and nature lovers.

About K L University



Koneru Lakshmaiah College of Engineering was established in the year 1980. The College attained autonomous status and has become a deemed to be University with effect from 2009. It is a pioneer in the field of Education and Research. K L University is recognized as one of Asia's best private University with highly qualified faculty. K L U is accredited by NAAC of UGC with "A" Grade and is approved by AICTE, New Delhi. This University is gearing up to emerge as one of the topnotch institutions with world class R & D Infrastructure and Academic ambience.

K L University, officially the Koneru Lakshmaiah Education Foundation, is a deemed university located in the Vaddeswaram Guntur District of Andhra Pradesh, India.

Address: Green Fields, Vaddeswaram, Guntur, Andhra Pradesh 522502, India

Phone: +91 863 239 9999

Founded: 1980

Affiliation: [University Grants Commission](#)

Photo Gallery









"Major Challenges"

- ◆ Launch Vehicle Trajectory Design
- ◆ Launch Vehicle Systems and ground Support Systems
- ◆ Launch Complex Facilities
- ◆ Vehicle and Mission Design capability
- ◆ Propulsion Technologies
- ◆ Control systems, Computer systems & TTC systems
- ◆ Pyro Systems and Separation Dynamics
- ◆ Avionics and Navigation systems
- ◆ Spacecraft Systems & Spacecraft Bus
- ◆ Payload Enhancement

"Ultimate Goal is to Reach Self Reliance"











News Clippings

SHAR-KL University to organise World Space Week celebrations

Models of rockets and satellites to be displayed from October 7 to 9

STAFF REPORTER
VIJAYAWADA

The Satish Dhawan Space Centre (SDSC), in association with Koneru Lakshmaiah University (KLU), will organise three-day 'World Space Week-2017' celebrations from October 7 to 9, on the university campus, said SDSC SHAR General Manager P. Sunil.

As part of the celebrations, the services being rendered by space scientists to the nation will be explained to the general public in the exhibition, said Mr. Sunil at a press conference organised here on Tuesday.

"In the last few decades, ISRO has crossed many milestones on space researches and its centres have made remarkable achievements. Particularly, students are very much interested to know about the launches of the space organisation," said



SHAR officials and KL University representatives releasing posters on World Space Week-2017 celebrations, in Vijayawada on Tuesday. ■ CH.VIJAYA BHASKAR

KLU vice-president Koneru Raja Hareen.

Science Expo

The theme of the World Space Week is to explain the activities of ISRO. Models of different rockets and the satellites launched by SHAR

will be displayed and the benefits to the country on the projects will be explained to the visitors, Mr. Hareen said.

Besides, video clippings of the launchings, paper and poster presentations, quiz and other competitions will be conducted for students,

said SHAR Deputy General Manager S. Shambu Prasad.

Engineer D. Ravi, KL University Civil Engineering head of the department V. Ranga Rao and others were present. All are invited to visit the science exhibition.

Paper : The Hindu
Page No : 2
Date : 04-10-2017



గోదవర్తికను ఆవిష్కరిస్తున్న రాజాహారీన్, సుసీల్, రంగారావు, శంఖుప్రసాద్

క.ఎల్.యు.లో అంతరిక్ష వారీత్వాలు

ఈనెల 7 నుంచి 9 వరకు వైజ్ఞానిక ప్రదర్శన

గవర్నర్ పేట (విజయవాడ), స్కూల్స్టుడీస్: ప్రమచ అంతరిక్ష వారీత్వాలను పురుషురించుకుని కేవర్ విశ్వవిద్యాలయం, సతీష్ ధావన్ అంతరిక్ష కేంద్రం సంయుక్త ఆధ్వర్యంలో ఈ నెల 7 నుంచి 9 వరకు వద్దేశ్వరులోని కె.ఎల్.విశ్వవిద్యాలయంలో వైజ్ఞానిక ప్రదర్శన నిర్వహిస్తున్నట్లు పార్ జనరల్ మేనేజర్ పి.సుసీల్, కేవర్యు ఉపాధ్యక్షుడు కోనేరు రాజాహారీన్లు వెల్లడించారు. మంగళవారం సాయంత్రం గవర్నర్ పేటలోని కేవర్యు కార్బూనిరావుక కార్బూలయంలో జరిగిన విలేకరుల సమావేశంలో కేవర్యులో జరిగే ప్రమచ అంతరిక్ష వారీత్వాల గురించి వివరించారు. ఈ సందర్భంగా కోనేరు రాజాహారీన్ మాట్లాడుతూ భారత దేశం ఉపగ్రహం, రాకెట్ పరిజ్ఞానంలో శరవేగంగా అభివృద్ధి చెందుతోందని వివరించారు. అంతరిక్ష రహస్యాలను శేధించటంలో ఇస్రో చేస్తున్న కృషి అభినందనియి మని ప్రశంసించారు. అంతరిక్ష వైజ్ఞానాన్ని సామాన్య ప్రజలకు సైతం తెలియజేయాలన్న లక్ష్యంతో ఈ వైజ్ఞానిక ప్రదర్శన ఏర్పాటు చేస్తున్నట్లు తెలిపారు. పార్ అంతరిక్ష కేంద్రం జనరల్ మేనేజర్ పి.సుసీల్ మాట్లాడుతూ మూడు రోజుల పాటు జరిగే ఈ ప్రదర్శనలో ఉపగ్రహాలు, రాకెట్ నమూనాలను ప్రదర్శిస్తామని తెలిపారు. వీటితో పాటు ఉపగ్రహాల తయారీ, ఉపగ్రహాల ప్రయోగం, గోడవల్కిల ప్రదర్శన ఉంటాయని వివరించారు. విద్యార్థులకు క్రీడ్, చిత్రలేఖనం పోటీలను నిర్వహిస్తామని ఈ పోటీలకు పారశాల, కళాశాల విద్యార్థులు ఆహ్వానితులేనన్నారు. అనంతరం అంతరిక్ష వారీత్వాల ప్రచార గోడవలికలను ఆవిష్కరించారు. ఈ సమావేశంలో పార్ డిస్ట్రిబ్యూటీ జనరల్ మేనేజర్ ఎస్.శంఖుప్రసాద్, ఇంజనీర్ దారం రవి, కేవర్యు సివిల్ ఇంజనీరింగ్ విభాగాధిపతి వి.రంగారావు, పి.శ్రీనివాస్ లు పాల్గొన్నారు.

7 నుంచి మూడు రీజుల పాటు కేవలయూలో వైజ్ఞానిక ప్రదర్శన



అంతర్జాల వారోత్సవాల పోస్టర్లను అవిష్కరిస్తున్న యూనివర్సీటీ ఉపాధ్యక్షుడు కోనేరు రాజా హరీన్ తదితరులు

- ఉపగ్రహాలు, రాకెట్ నమూనా ప్రదర్శనలు
- క్రొజ్, చిత్రలేఖనం పోటీలు

గాంధీనగర(విజయవాడ): ప్రపంచ అంతర్జాల వారోత్సవాలను పుర స్కూరించుకుని కేవల యూనివర్సిటీ, సతీష్విధావన అంతర్జాల కేంద్రం సంయుక్తంగా ఈనెల 7 నుంచి 9 వరకు వజ్రేశ్వరంలోని యూనివర్సిటీ ప్రాంగణంలో వైజ్ఞానిక ప్రదర్శన నిర్వహిస్తున్నట్టు యూనివర్సిటీ ఉపాధ్యక్షుడు కోనేరు రాజాహరీన్ తెలిపారు. మూర్ఖియం రోడ్డులోని యూనివర్సిటీ కార్బన్ రైఫ్ కార్బన్లయంలో మంగళ వారం ఏర్పాటుచేసిన విలేకరుల సమావేశంలో ఆయన మాటల్లాడుతూ ఉపగ్రహ, రాకెట్ పరిజ్ఞానంలో భారతదేశం సాంకేతికంగా వేగంగా అభివృద్ధి చెందుతోందన్నారు. అంతర్జాల రహస్యాలను శోధించడంలో ఇస్ట్రో చేస్తున్న కృషి అభినందనీయమన్నారు. కొన్ని దశాబ్దాలుగా సతీష్విధావన అంతర్జాల పరిశోధనా కేంద్రం చేస్తున్న ప్రయోగాలు, నమోదు చేసిన విజయాలు ప్రపంచానికి ఆదర్శమన్నారు. అంతర్జాల విజ్ఞానంపై ప్రతి ఒక్కరికి అసక్తి ఉంటుందని, ఈ విజ్ఞానాన్ని అందరికి చేరువ చేసేందుకే వైజ్ఞానిక ప్రదర్శన ఏర్పాటు చేస్తున్నట్టు చెప్పారు. ఇస్ట్రో ప్రతిష్టాత్మకంగా తలపెట్టిన ఈ కార్బన్ మాన్ని విజయవంతం చేయాలని కోరారు. ప్సర్ అంతర్జాల కేంద్రం జనరల్ మేనేజర్ పి.సునీల్ మాటల్లాడుతూ మూడురోజుల పాటు జరిగే ప్రదర్శనలో భాగంగా రాకెట్, ఉపగ్రహాల నమూనాలు ప్రదర్శించడంతో పాటు వాటి తయారీ, ప్రయోగాలకు సంబంధించిన వీడియోలు ప్రదర్శిస్తామన్నారు. పేపర్, పోస్టర్ ప్రదర్శనలు నిర్వహిస్తామన్నారు. విద్యార్థులకు క్రొజ్, చిత్రలేఖనం పోటీలు నిర్వహించనున్నట్టు తెలిపారు. ఈ కార్బన్ మానికి ప్రతి ఒక్కరూ హజరుకావాలని కోరారు, సమావేశంలో ప్సర్ డిప్యూటీ జనరల్ మేనేజర్ ఎన్ శంఖుప్రసాద్, ఇంజనీర్ దారం రవి, యూనివర్సిటీ సివిల్ విభాగం అధిపతి రంగారావు పాల్సొన్నారు.



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