Annual Report
2015-16

Pushpa Gujral Science City
11 years of fostering Scientific Temper
ABOUT US

Pushpa Gujral Science City (PGSC) is spread across 72 acres on Jalandhar-Kapurthala road, Punjab. The project primarily aims at popularizing science through “edutainment” i.e. education through entertainment. The biggest project of its kind in Northern India, it is intended to fire the imagination and creativity of individuals and foster a spirit of inquiry and exploration, especially in the young minds.

Science City takes pride in making science an inspiring and exciting experience for people of all ages. Over the past years, Science City has been instrumental in promoting creativity and innovation and continues to ignite young minds towards the wonders of Science. Science City’s interactive exhibits housed in various galleries cover a wide range of topics related to Science & Technology. The galleries developed at Science City are on Space and Aviation, Amazing Living Machine (Health Gallery), HIV/AIDS Awareness Gallery, Bio-Technology Gallery, Science of Sports, Fun Science, Dinosaur Park, Virtual Reality, Cyber Space, Life through the Ages, Climate Change Theatre and Bird Gallery. These galleries present memorable, knowledge-based and exciting experience to the visitors. In addition to these galleries, a state level Energy Education and Awareness Park has been setup with the assistance of Ministry of New and Renewable Energy Sources, Govt. of India and Punjab Energy Development Agency with approximate cost of Rs. 1.10 Crores. Also on display are MIG-23, Vijayanta Tank, Anti Aircraft Gun and Torpedo donated by Ministry of Defence, Govt. of India. Ministry of Railways, GoI has setup a Railway Gallery at the Science City with approximate cost of Rs. 1 Crore.

Science city also offers a wide range of enrichment programmes for students aiming at complementing the school’s formal science education with enriching fun events, competitions and outreach activities. The main objective of communication & popularization of Science programmes is to generate scientific temper among the masses and make the people think scientifically at every stage. Science City is a proud recipient of National award for Energy conservation - 2013 and National award for Outstanding Efforts in Science and Technology Communication - 2015.

Science City has received approximately 35 lac visitors since its opening to the public on March 20, 2005. From then on till date, Science City, has come a long way. With its various galleries and multifarious activities, it has become a place where Science happens in front of one’s eyes through animated and interactive models. The Science City, Kapurthala is on a fast track in achieving its objective of inculcating scientific culture and temperament among the general masses, particularly in the youth.
Our Vision

We will be an institution of excellence to inculcate scientific temper and generate & nurture creativity especially in the young minds.

Our Mission

We will be a place for:

- **Education**: To provide young people with the opportunity to explore informal ways of supplementing formal education.

- **Widening knowledge**: To offer everyone – children and adults, general public and students – avenues to experience its well equipped resource centres.

- **Demonstrating emerging technologies**: such as nano-technology, micro-machines, levitation, genomics etc.

- **Information**: To disseminate information on the latest developments in science and technology.

- **Innovation**: To provide opportunity to individuals to try out their ideas in the design and development of new products.

- **Edutainment**: To learn through experience, fun and entertainment.

Our Objectives

- To supplement formal science education, to create excitement among the students about science & technology and to enthuse them to take up careers in science & technology

- To promote creativity and innovation among the young generation

- To build scientific temper among the general masses and to develop informed and knowledgeable society.
Review of 2015-16
Mobile Science Exhibition Flagged off!!

Reaching out the Unreached: Mobile Science Exhibition

Science City launched Mobile Science Exhibition Bus, a joint outreach programme with I. K. Gujral Punjab Technical University (IKGPTU) supported by National Council for Science and Technology Communications (NCSTC), DST, GoI to take Science to the doorsteps of rural population and impress upon them the significance of...
Science and Technology for betterment of quality of their lives and expose them to some of the issues and challenges related to sustainable development. The exhibition was flagged off by Hon’ble CM, S. Parkash Singh Badal on September 9, 2015.

The interactive exhibits and information panels gives the students/visitors an opportunity to learn through the process of interaction and discovery. Mobile Science Exhibition shall cover all the blocks in 22 districts of the state. The programme intends to cover at least one school in each block which would further cater to cluster of schools in its neighbouring areas. The exhibition bus remains in the school for 2-3 days. At each site neighbouring schools are also invited. The exhibition was inaugurated in Rupnagar district by the Hon’ble Education Minister, Dr Daljit Singh Cheema on October 8, 2015. The event was organized at Govt. Senior Secondary School, Nurpur Bedi where students in large numbers were present. Mobile Science Exhibition Bus was also invited to the DST-Gol, S & T Exhibition and INTEL programme at IIT, Delhi and the National Children Congress organized at Gharaun. So far, Mobile Science Exhibition has covered Ropar, Fatehgarh Sahib, Ludhiana, Patiala, Jalandhar, Hoshiarpur, Tarn Taran, Pathankot, Nawanshahr, Amritsar, Ferozpur, Faridkot, Muktsar, Fazilka and Moga districts reaching out to 1.25 lac people.
Mukh Mantri Vigyan Yatra

The Department of Education, Govt. of Punjab has initiated “Mukh Mantri Vigyan Yatra” for students of Govt. schools of Punjab to Science City w.e.f. 18.02.2016. The Yatra was flagged off by Hon’ble Chief Minister, Punjab, S. Parkash Singh Badal from Govt. Senior Sec. School, Phase III- B1, Mohali. Hon’ble Education Minister, Dr. Daljeet Singh Cheema; Principal Secretary, School Education, Dr G. Vajralingam; SSTE, Sh. Jaspal Singh; and DGSE, Sh. Pradeep Aggarwal were also present. More than 28,000 school students visited the Science City under this scheme. The new information brochure of Science City was also released by the Chief Minister at this occasion.
Yay !! We are the winners of National award for Outstanding Efforts in Science and Technology Communication

In recognition of constant efforts in Science and Technology popularization and creating scientific awareness, Science City was awarded National award for Science and Technology Communication. The award was presented by Hon’ble Minister for Science and Technology, Dr Harsh Vardhan at Technology Bhavan on March 1, 2016 at the occasion of National Science Day.
Chirp with the Birds: Bird Gallery Opened To Public

Bird Gallery set up jointly with Punjab State Council for Science & Technology (PSCST), a nodal agency in the State for wetland conservation and management programmes, was inaugurated and opened to public on 27.02.2016. The gallery captures staggering diversity of birds with models of national and state birds. A large banyan tree located in its centre displays commonly available birds species of the state mounted on it. This tree structure is surrounded by wetland diorama consisting models of species/varieties of flora and fauna available in state wetlands surrounded by replica of natural scenic beauty. The gallery also exhibits a large map of India demarcating its various states along with state birds.

These bird’s models are placed in such postures to give life-like experience. A large skeletal structure of hawk mounted on the wall provides its anatomical details. Another diorama depicts a pair of Indian Pea fowl in dancing posture at the entrance of the gallery. The gallery takes visitors into a journey of beautiful world of birds and generate awareness on the avian wealth of the country and conservation issues.
Our Distinguished Visitors

- His Excellency President of Mauritius Rajkeswur Purryag accompanied by First Lady of Mauritius visited Puspha Gujral Science City on 14.04.2015. He visited various scientific galleries and interacted with media persons and expressed that he was impressed to see the facilities and such a big accumulation of science and knowledge at a single place.

- 32 Foreign Delegates including students from South Africa, France, Germany visited Science City on August 31, 2015. The Govt. of Punjab declared them as State Guest.

Grants received

PGSC received grant-in-aid amounting to Rs. 50 lacs from Govt. of Punjab for the visit of students of government schools of Punjab.

Maintenance Work

- New Laser machine was procured and installed at the Laser Theatre on 30.09.2015.
- Maintenance of trees, shrubs and lawns including removal of weeds, use of Lawn Mower & watering the plants is done on a regular basis.
- Maintenance of nursery, green house & bio fertilizer pits
New Facilities

Introduction of Trackless train

Pushpa Gujral Science City introduced a new attraction in the form of eco-friendly trackless train. The Train is a model to educate about eco-friendly transport solution in the country. It would not only provide fun and entertainment to its visitors but would also meet the necessity of facilitating visitors movement within the Science City.

Timings of Pushpa Gujral Science City was extended on Saturdays and Sundays upto 8.00 PM (June–Oct) from 13.06.2015. Advertising and publicity was done through 94.3 My FM Radio. Further, in Jalandhar and Kapurthala cities advertisement was done through printing information on flex banners and displaying on rear side of auto rickshaws/other public conveyances.

Get Yourself Photographed

Photography of visitors with MIG 23 aircraft was made functional. Visitors can get themselves photographed while sitting in aircraft.

Online Booking

Online Booking of PGSC tickets through Science City website was opened for general public and School/College Groups from December 2015.
In addition to the above, the following facilities developed in Science City over the years continued to attract the visitors:

- **Large Format Film Theatre:** Science City hosts a Large Format Film Projection System. It is housed in a dome, which is distinctive outside as well as inside. On the outside, it is covered with 25 lac computer-designed tiles of one square inch each and looks like a giant globe. Inside, it has a large format film theatre with a 23-metre diameter screen — which is 10 times larger than a 35 mm screen — which provides 328 persons an immersible experience.

- **Digital Planetarium:** The most amazing experience in any planetarium through multi-channel digital planetarium system is to see the night sky, and a guided tour through the planets & constellations.

- **Virtual Expeditions (Flight Simulator):** Another activity which causes an adrenaline rush, is a three-minute ride in a 30-seater flight simulator. It feels as if one is zooming through the stars in an alien universe or making death-defying leaps on a roller coaster.

- **Virtual 3-D Show:** Here, visitors see the objects flying out of the screen coming in every direction; creepy characters reaching out to grab you giving a feeling that you are a part of the action.

- **Indoor Laser Show:** This laser show takes visitors to the wonderland where one would experience sudden shots of fog with mind-boggling sound and laser beams.

- **Earthquake Simulator:** 30-seater Earthquake Simulator provides visitors a realistic experience of being in an earthquake. The computer-controlled simulator demonstrates how much a city will shake and heave if there is an earthquake measuring say 5, 6, 7 or 8 on the Richter Scale.

- **Amazing Living Machine (Health Gallery):** Amazing living machine gallery is an effort to enlighten the general public about the functioning of various organs of the human body and understand the extraordinary bridge between what we see and the way they are. The gallery deals with various aspects of the human body from embryonic to full body development, aging and demonstrating anatomy, physiology, diagnostics and genetics through interactive and attractive exhibits. The star attractions of the gallery are Transparent Man theatre, walk through Giant Heart, CT Scanner, Operation theatre, Countdown to Birth, and various other interactive exhibits.

- **Fun Science Exhibits:** Around 100 numbers of assorted interactive exhibits have been designed and fabricated and clustered together on the basis of basic fundamental science themes.

- **Virtual Reality Gallery/ Cyber space:** This gallery is an exciting place with lots of fun, entertainment and education for people of all ages and background. Here, visitors play with Butterflies, Sand, Molecular Bubbles, Shadows, Marble Marshal and Magic Flowers. Children specially enjoy dancing with virtual music and play with virtual games.

- **Space & Aviation Gallery:** The gallery displays cut-view models of satellites and various applications of space technology. The major constituents of the gallery are: Astronomy - our Universe; Solar System; Satellites launching Vehicle, Living in space etc.
- **Dinosaur Park**: One of the biggest Dinosaur Parks, it has Life size dinosaurs, 44 in number of different eras in the island surrounded by a water body. Also meet Dinosaurs with movements and special sound effects placed under a volcano.

- **State level Energy Education & Awareness Park**: This Park demonstrates uses of various forms of non-conventional energy sources such as Solar energy, Hydel energy, Wind energy, Bio energy. 20 KW energy is generated through Solar Energy to run all the exhibits in the Energy Park.

- **Defence Gallery**: Defence gallery consists of weapons and aircrafts that were used during World war II and various other indigenously built aircrafts. The main attractions are Vijyanta Tank, Anti aircraft gun & aircraft MIG 23. A 2-seater Air Craft Swati LT-11 donated by the Govt. of Punjab to the Science City was also installed for giving sit-in experience to the visiting public

- **Life Through the Ages**: This gallery takes you on an amazing journey through the history of life, provides insight on how the Earth and life on it has evolved. The Panorama displays the major events from “Origin of Earth-Big Bang”, Origin of Life, Unicellular animals/plants to Multi cellular animals/plants, Dinosaurs and prehistoric man to modern man.

- **Science of Sports**: Gallery is an ideal place to understand science behind various sports through playful and non-formal approach. The gallery intends to familiarize the visitors with the applications of scientific principles in sports - role of gravity, projectile motion, momentum, force, energy, impulse, Newton’s Law of Motion, materials used in equipment etc. and understanding and improving performance in sports.

- **Climate Change Theatre**: is a unique experience-filled theatre showing videos on two screens- flat and dome shaped and illuminating the static and moving fibre glass objects along with special light and sound effects, as the video displays storyline of the film.

- **Railway Gallery**: Dioramas of technologically challenging and visually inspiring railway tracks have been set like Kalka-Shimla Railway track, Jammu- Srinagar railway link, the Bullet Train of Japan, Delhi Metro and principle of levitation used in high speed trains and engine simulator.
PROMOTING INNOVATION & CREATIVITY
Promoting, Innovation & Creativity

Regional Incubation Science Hubs For Innovators (RISHI) Camp

Pushpa Gujral Science City, Kapurthala is running a project sanctioned by Department of Science & Technology, NCSTC, New Delhi GOI entitled “RISHI”. The Project provides platform to young innovators to pursue their promising innovative ideas related to science field under the guidance of mentors at Science City and hence, encourages talented students to take up their career in the field of Science & Technology. The talented students from various schools government/private having potential innovative ideas are selected by expert committee for 3 weeks camp organized at Pushpa Gujral Science City, Kapurthala. Three camps were organized during 2015-16 in which 21 students took part.

Camp 1: 6-4-2016 to 26-6-15
Camp 2: 4-6-2015 to 24-6-15
Camp 3: 26-12-15 to 15-1-16

Some of the innovative ideas in the camp were:
- Tube Light Cleaning Device
- Fruit Harvesting Tool
- Old/Blind Man Walking Stick
- Earthquake safety device
- Glucose Level Indicator
Gyan Manthan- District Level Robotics Championship (April 18, 2015)

Pushpa Gujral Science City in collaboration with College of Engineering and Management (CEM), Kapurthala organized a district level “Robotics Championship”. More than 150 students from polytechnic colleges of Punjab participated in the championship.

Summer Camp at Science City (May 25 – June 6, 2015)

Pushpa Gujral Science City organized summer camp on Hands-on activities in Mathematics, Model Rocketry, Basic Electronics and Nature camp for school students of 5th to 8th standard. The camp was an opportunity for the participants to introduce themselves with the exciting world of engineering, robotics and the art of observation in nature and help them break the boundaries of the routine and take a leap into the whole new world full of different perspectives. The objective was to develop curiosity, increase self-confidence and interest of the students in science and provide hands-on experiments and demonstrations. A total of 105 students from Kapurthala district participated in the camp. The salient features of this camp were simplifying the complex concepts of science, develop and nurture Scientific Temper and skill development.

Training Workshop For Nature Guide Student Volunteers (August 31, 2015)

Science City in collaboration with Punjab State Council for Science & Technology, Chandigarh organized a “Training workshop for nature guide volunteers”. The objective of this workshop was to impart training to student volunteers about the importance of wetlands and their conservation, identification of wetlands birds, animals and plants so that they work as nature guide to impart knowledge among the masses. The programme included expert lectures by Dr. Jagbir Singh, Professor and Head, Department of Zoology and Environmental Sciences, Punjabi University, Patiala on faunal biodiversity, Dr. Adarsh Pal Vig, Associate Professor and Head, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar on floral biodiversity and Ms. Gitanjali Kanwar, Senior Project Officer, WWF-India Harike Field Office, Tarn Taran.
The programme concluded with plantation of saplings by the participants. About 100 students from different schools and colleges of various districts of Punjab participated in the training workshop.

**Earthian Orientation Programme (July 24, 2015)**

Pushpa Gujral Science City organized Earthian Orientation programme in collaboration with Punjab State Council for Science & Technology Chandigarh and WIPRO. The programme was aimed to help schools and colleges prepare younger generation to understand environmental challenges and build knowledge skills and attitude needed to tackle these challenges. About 50 teachers from 22 districts of the state covered under NGC programme participated in the programme. During the event a technical presentation on earthian programme was made by Sh. Ashish Shah from WIPRO. The participants were also provided with learning resource book on sustainability and water equipped with tools, detailed set of activities, case studies and data which can be utilized for participation in sustainability education program run by WIPRO. Under this program, 10 schools were be selected for a cash award of Rs 1,00,000/- based on the report submitted by student groups supervised by teachers on sustainability issues associated with water /biodiversity. Participants were also taken for the visit to Climate Change Theatre and various galleries at Science City.

**Astronomical Telescope Making Workshop (October 5-16, 2015)**

Pushpa Gujral Science City in collaboration with Vigyan Prasar, Noida organized a workshop on 'Astronomical Telescope Making' from 5-16 October, 2015. The objective of this workshop was to promote scientific hobby and developed skills related to Astronomy and Telescope Making. The workshop was primarily aimed to attract professionals, amateurs and enthusiasts who would like to gain a firsthand experience in the nitty-gritty of telescope making under expert supervision.

A total of 15 teams from different states participated in the workshop. Each team fabricated its own five inch (5”) Dobsonian Telescopes. Eminent astronomers from various research institutions provided training to the participants on techniques and know-how to prepare as well as use telescope, elementary astronomy & tips on astrophotography.

Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune & Aryabhatta Research Institute of Observational Sciences, Nainital were the other collaborating agencies involved in organizing the workshop as well as providing technical support.

The Participants enjoyed evening astronomy classes and night sky session during the workshop.

**Workshop On Robotics (December 21-23, 2015)**

A three-day workshop on ‘Robotics’, was organised at Pushpa Gujral Science City (PGSC) in collaboration with National Council for Science and Technology Communication (NCSTC)
and Government of India (GOI), New Delhi. About 60 Students along with teachers from various government schools of 22 districts of Punjab participated in this workshop.
Sh. Atul Uttam and Sh. Harshit Awasthi from Maxxware, New Delhi, were the resource persons. They imparted practical training and skills to make a robot as well as made the students aware about applications of robotics in the industry. The experts also explained the students about the various components and sensors used to make a robot as well as learnt assembling of a robot and its wireless connectivity and control with mobile phones.
Annual Day –cum- Innotech -2016 (March 18-20, 2016)

Pushpa Gujral Science City (PGSC) in collaboration with Punjab Technical University celebrated INNO-TECH-2016 to provide a platform to the students of technical Institutes to display their innovative creations as well as an opportunity to the students to showcase their talent and vision. It is intended to encourage love for Science among the youth through enquiry-based learning and to convert their imaginative ideas into real life models/projects and several other creative and skill enhancing activities. This day also marks the Annual Day celebration Science City celebrated this festival through display of projects/models and Quiz Competitions aimed to inculcate scientific aptitude and temperament, among the masses, especially in youth mind. About 900 students from different professional colleges participated in various events. Technopreneur Promotion Programme Outreach Centre, Chandigarh made a presentation on this occasion highlighting various facilities and financial support available for innovative models, providing an opportunity to the participants to further develop their models/ideas.

Dr. A.K Paul, Vice Chancellor, DAV University, Jalandhar was the Chief Guest.

Dr. Yogender Yadav, Director, SSSNIBE and Dr. A P Singh Dean PTU were the Guest of Honours on the occasion.
Celebration of Days & Events
Celebration of Days & Events

**World Earth Day (April 22, 2015)**

Science City celebrated World Earth Day in collaboration with Punjab Pollution Control Board, Patiala. Over 500 school students from all over Punjab participated in debate and essay writing competition organized on the occasion.

Sh. R.K. Luna, IFS, Additional Principal Chief Conservator of Forest (Retired), Govt. of Punjab shared his valuable views on the day. He emphasized that burning of fossil fuels for advanced technological development purposes is disrupting the natural balance of the atmospheric gases, creating ozone holes and bringing significant change in temperature as well as rainfall pattern leading to Global Warming.

**World Environment Day (June 5, 2015)**

Pushpa Gujral Science City celebrated World Environment Day to raise awareness among students and visitors for the conservation and management of earth’s environment resources. This year the theme for World Environment Day- 2015 was “Seven Billion Dreams; One Planet; Consume with Care”. To celebrate World Environment Day, the Director and staff of PGSC along with 200 students from different schools planted saplings of shady trees in the newly demarcated picnic area for visitors in the Science City complex. A documentary show on global climate change was screened in the Climate Change theatre for the participants with an objective to disseminate information on potential impacts of climate change.

**International Day For Biological Diversity (May 22, 2015)**

A state-level function was organized in collaboration with the Punjab Biodiversity Board (PBB), Chandigarh to celebrate International Day For Biological Diversity. Over 350 students and Biodiversity Management Committee (BMC) members from different districts participated in the event.

Dr. Neelima Jerath, Member Secretary, Punjab Biodiversity Board, Chandigarh and Director General, Pushpa Gujral Science City, Kapurthala presided over the occasion. In her address, she briefed the participants about the importance of endemic flora and fauna and apprised them about various efforts being taken by the Punjab Biodiversity Board in conservation of biodiversity of the state. Science Play and Painting competition was organized at this occasion. A special exhibition on Biodiversity of Punjab was also set-up by the Punjab Biodiversity Board to create mass awareness. A game ‘Snakes and Ladders,’ specifically developed for awareness purposes to spread the message of conservation of biodiversity and sustainable utilization of natural resources, was also played by the students.
International Day for Biological Diversity Celebrations

World Environment Day

World Earth Day
Celebration Of Digital India Week (July 1–7, 2015)

Pushpa Gujral Science City celebrated Digital India week by organizing various awareness programmes on importance of digital technology for staff and visitors of Science City. During the digital week all PGSC employees were made aware about the importance and applications of numerous e – services like e-lockers, e-health etc. To spread the awareness about the usage of internet and prepare them to function in an increasingly inter-connected and rapidly changing globalized world, basic knowledge of computers was provided to the housekeeping, gardening and security staff of the Science City.

A group quiz competition on digital world was conducted for the visitors. Also, banners were displayed in the campus to aware students and visitors regarding the significance of Digital India Week.

Celebration Of World Ozone Day (September 17, 2015)

Science City celebrated “International Day for the Preservation of the Ozone Layer” in collaboration with Ministry of Earth Sciences, GoI. The objective of the celebration is to create public awareness about substances that play a significant role in the depletion of Ozone layer. On this occasion an expert lecture was delivered by Dr. S.S. Yadav, Scientist from Department of Botany, MDU, Rohtak. Various competitions were organized in which more than 200 students from schools all over Punjab participated.

International Day For Disaster Reduction (October 14, 2015)

Science City celebrated “International Day for Disaster Reduction” on October 14, 2015 in collaboration with Ministry of Earth Sciences, GoI. On this occasion an expert lecture was delivered by Sh. Ankur Chauhan, Director, Institute of Disaster Management and Fire Sciences, Chandigarh. Photography and debate competitions were organized to commemorate this day in which about 230 students from different schools participated.

Celebration Of World Wetlands Day (February 02, 2016)

Science City celebrated World Wetlands Day on February 02, 2016 in collaboration with Punjab State Council for Science and Technology, Chandigarh involving participation by large number of students in different competitions. Expert lecture was delivered by Mrs. Gitanjali Kanwar, Project Coordinator, WWF-India on the occasion. Painting and Photography competition was organized in which about 250 students from different schools participated.
State Level Math’s & Science Quiz Competition (February 24, 2016)

With the motive of inculcating scientific temper among students of Govt. Schools, Punjab School Education Department in collaboration with Pushpa Gujral Science City organized a State level Quiz competition at Pushpa Gujral Science City, Kapurthala on 24.02.2016. Sh. Daljeet Singh Cheema, Education Minister, Punjab was the chief guest on the occasion.
Special Outreach Programmes
Special Outreach Programmes

Food Festival & Cookery Competition (December 06, 2015)

Pushpa Gujral Science City organized Food Festival & Cookery Competition on 06.12.2015 to inculcate the scientific temper in the society on healthy food. The programme was celebrated in association with National Finishing & Cookery Institute, Jalandhar. More than 200 Budding chefs, including kids, students, housewives and professionals, participated under four categories: Junior Chef, Kitchen King/Queen, Chef of the Year and Culinary Chef. Sh Rakesh Sethi, Celebrity Chef was the chief guest on this occasion.

Chefs Mr. Sanjeev Verma, Mr. Navdeep Sharma and Ms Neelu Kaura were the jury members during the competition. 25 stalls of different variety of foods were set up on this occasion to celebrate the food diversity of India. All stalls were based on various themes to emphasise the importance of appropriate intake of nutrients in daily life. ‘Regions of India’ stall depicted the diversity in culinary traditions of country, while ‘Amritsar Delight’ showcased the holy city’s food culture and ‘Conti-Food’ stall opened the doorway to international cuisines.
All Breed Open Dog Show (January 17, 2016)

Pushpa Gujral Science City Kapurthala organized All Breed Open Dog show with an objective to bring awareness in the society about domesticated biodiversity with a focus on various breeds of dogs. Exhibitors from all over Punjab participated in this dog show. Over 90 dogs comprising 35 breeds participated in the show. Owners of dogs from Punjab and other states exhibited their pets and their skills during the show. 15 stalls related to dog foods and dog medicines were set up on this occasion.

Dr. Rajesh Grover, Director, Pushpa Gujral Science City, Kapurthala presided over the function and emphasized on the need to bring awareness about salient features of various breeds of dogs in the society. Brig. NR Babu, 38 Infantry, was the Chief Guest on the occasion.
Flower Show (February 27, 2016)

Pushpa Gujral Science City organized Flower Show on February 27, 2016 involving participation by large number of students and visitors in different competitions. Dr. Neelima Jerath, Director General, Science City presided over the occasion. The objective of the programme was to raise awareness on floral biodiversity of the region. More than 900 participants registered for this event. This event gave an opportunity to the visitors to enjoy the spring season in its full grandeur and to appreciate the floral biodiversity. A special exhibition was also set up at this occasion by Punjab Biodiversity Board to provide information to the public on this important gene pool.
Wonders Of The Universe: Night Sky Watching

Under Night Sky Watching programme, Star gazing activities are organized through powerful telescopes. Here one can view the craters on moon surface, Rings of Saturn, Phases of Venus, Jupiter, Mars etc. Science City keeps a track of major celestial events and update the schools regularly. Night Sky watching is arranged for the interested schools/visitors at Science City complex or at the institution premises. Science City organized Night sky watching for approx. 930 students of different schools from Nalagarh, Jalandhar and Gurdaspur in 2015-16.
Exhibitions & Fair

**Progressive Punjab Invest Summit, 2015 (October 28-29, 2015)**

PGSC participated in Progressive Punjab Invest Summit, 2015 which was organized by Govt. of Punjab from October 28-29, 2015.

**International Trade Fair, 2015(November 14-27,2015)**

PGSC participated in International Trade Fair, 2015 (Punjab Pavilion) at Pragati Maidan Delhi from November 14 to November 27, 2015 organized by Indian Trade Promotion Organization, New Delhi. IITF is the largest integrated trade fair in the Indian subcontinent. A number of Government Organizations uses this platform to spread awareness about their programmes and policies among the public. PGSC section was one of the major highlight of the Punjab Pavilion at the fair. More than 3 lac visitor visited the stall and collected information about Science City.

**CII, Ludhiana(December 11-14,2015)**

PGSC participated in Trade Fair organized by Confederation of Indian Industry, Chandigarh from December 11 to December 14, 2015 at Govt. Girls College, Ludhiana. More than 15000 visitors visited the stall and got information regarding the Science City. Sh. Madan Mohan Mittal, Hon’ble Minister of Industries, Punjab also visited the stall and appreciated the efforts of PGSC.
Internet Buzz

- **Website And Linkages**

PGSC Facebook page daily gets suggestions, recommendations and likes from the visitors. It has more than 5000 likes and daily post reaches about 1K people.

- **E-Newsletter**

Science City released various editions of quarterly e-newsletter BUZZER. The newsletter highlights forthcoming events, events organized in the past quarter, Ticket prices, various schemes, and other facilities available at the Science City. Science City regularly sends newsletter to schools & colleges all over the northern region.

- **E-Marketing**

In today’s internet age, building an online presence is imperative for all businesses to be competitive. Science City is well aware of this fact and is thus, actively involved in e-marketing like sending updates, promotional material, membership schemes, promoting Night Sky Watching Activity etc.

- E-mails for the promotion of PGSC was sent to 3045 schools of Chandigarh, Punjab, Haryana, Himachal Pradesh, Jammu & Kashmir, Delhi
- E-mail to colleges affiliated with PTU was sent for mobilizing the students to take benefit of the sponsorship scheme of PTU.

Conferences

- Participation and presentation of paper by Dr R. Grover, Director, PGSC on “How to make Planetariums as Profit Centre” during Full Dome Planetarium Conference at Surat (02-08-2015 to 04-08-2015).
- Dr Neelima K. Jerath(Director General), Dr R. Grover (Director) and Sh. Sheeraj Batish (Sr. Manager) attended International conference on Inclusive museums during 06-08-15 to 09-08-15 at New Delhi and paper on “Reaching out to unreached” was presented during conference by Sr. Manager for publication in International journal.

- Dr. Rajesh Grover, Director, PGSC attended 15th All India Directors Conference organized by NCSM at Coimbatore during December 11-13, 2015 and made a presentation on Financial sustainability of Science Centres-PGSC Model.

Computer Training programme

Pushpa Gujral Science City established a Computer Centre with the latest equipment manned by highly qualified and experienced staff. In order to serve the community, PGSC has started a Computer Awareness Training Programme at nominal rates for students and general public. The participants of this Training Programme include students, senior citizens, housewives and general public from adjoining areas. The training is imparted with the help of multimedia projection system. The course content includes PC setup, World processing, Multimedia Presentation, Hands on experience on Internet, E-mail etc. Certificates are awarded after the successful completion of the programme. 37 students and 9 senior citizens were given training during May-Sep 2015.
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Science City in Media

Electronic Media

- Mauritian President visit to Science City on 14-4-2015 covered.
- NRI Delegates visit to Science City on August 31,2015 telecast on DD News Jalandhar.
- Live telecast of interview of Director, PGSC regarding role of Science City in development of scientific temper at Doordarshan, Shimla on 18.09.2015
- AIR, Shimla broadcasted interview of Director, PGSC and feature on Science City under Science Magazine Programme on 25.09.2015.
- Special Coverage of Science City Stall (Progressive Punjab) Telecast on PTC on 28-10-2015.
- Bird Gallery inauguration covered.
- National award for Science & Technology Communications 2016 covered by DDNEs, PTC

Print Media

- Story on visit of gram panchayat to the Science City published in The Tribune on 28-7-2015.
- Science City aerial view Photo published in Dainik Bhaskar on 8-10-2015
- Science City Feature covered in Dainik Bhaskar on December 31,2015
- Announcement of Mukhya Mantri
- Vigyan Yatra initiated on 02-2-2016 covered in The Indian Express and The Hindustan Times
- Flag off Ceremony of Mobile Science Exhibition

Wide coverage of the following programmes organized at Science City in print as well as in electronic media:

- Earth Day-2015
- International Bio-diversity Day -2015
- Environment Day-2015
- National Pollution Prevention Day-2015
- Food Festival And Cookery Competition
- Dog Show
- Wetlands Day-2016
- INNO-TECH- 2016
Science City in Media

- Good news for bird lovers, science city opens new gallery
- Science City celebrates World Wetland Day
- Innotech 2016 held at Science City
- Kapurthala Science City receives national award
- Award for Science City
- 150 dogs of 40 breeds steal the show at Science City
Bus exhibiting wonders of science flagged off

CHIEF MINISTER LAUDS EFFORTS OF PUSHPA GUJRAL SCIENCE CITY FOR TAKING THE INITIATIVE IN ASSOCIATION WITH I K GUJRAL PUNJAB TECHNICAL UNIVERSITY

Mobile science exhibition reaches Fatehgarh Sahib

CHIEF MINISTER PARKASH SINGH BADAL yesterdays from his residence at Chandigarh attended a Mobile Science Exhibition organized by Pushpa Gujral Science City, Kapurthala in collaboration with I K Gujral Punjab Technical University and Department of Science & Technology, Government of India. Speaking on the occasion, the CM said every 3-6 months India at major cities.
**Financial Statement**

**Operational Days & Visitors(April 2015-March 2016)**

<table>
<thead>
<tr>
<th>Item</th>
<th>2015-2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Days</td>
<td>365</td>
</tr>
<tr>
<td>No. of Visitors</td>
<td>2.88 lac</td>
</tr>
</tbody>
</table>

**Operational Expenses during the year 2015-2016 (Amount in Lacs)**

<table>
<thead>
<tr>
<th>Items</th>
<th>Expenditure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salary &amp; Allowances</td>
<td>413.95</td>
</tr>
<tr>
<td>Administrative expenses</td>
<td>32.45</td>
</tr>
<tr>
<td>Operation &amp; Maintenance expenses</td>
<td>139.02</td>
</tr>
<tr>
<td>Total</td>
<td><strong>585.42</strong></td>
</tr>
</tbody>
</table>

**Revenue generated during the year 2015-2016(Amount in Lacs)**

<table>
<thead>
<tr>
<th>Items</th>
<th>Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sale of Tickets</td>
<td>525.11</td>
</tr>
<tr>
<td>Sale of Parking Tickets</td>
<td>7.18</td>
</tr>
<tr>
<td>Restaurant Lease</td>
<td>21.20</td>
</tr>
<tr>
<td>Commission received (Souvenir Shop)</td>
<td>1.74</td>
</tr>
<tr>
<td>Commission received (Boating Sale)</td>
<td>2.90</td>
</tr>
<tr>
<td>Computer Classes</td>
<td>0.46</td>
</tr>
<tr>
<td>Membership Fee</td>
<td>2.88</td>
</tr>
<tr>
<td>Receipt from Guest House/Convention Hall</td>
<td>9.21</td>
</tr>
<tr>
<td>Night Sky Watching</td>
<td>1.50</td>
</tr>
<tr>
<td>Sponsorship of Hoardings</td>
<td>2.06</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>12.22</td>
</tr>
<tr>
<td>Total</td>
<td><strong>586.46</strong></td>
</tr>
</tbody>
</table>
KEY STATISTICS

TICKET PROFILE

Entry Tickets 10%
Package Tickets 90%

VISITORS' PROFILE

- Students 70%
- Teachers 14%
- General 9%
- Family 5%
- Sr. Citizens + others 2%

35
State-wise Visitors (excluding Punjab)

Visitors from various Continents (excluding India)

Student Profile
ANNEXURES
Members of PGSC Society

1. S. Parkash Singh Badal
   Hon'ble Chief Minister, Punjab and Minister- In-charge of Science & Technology, Punjab Civil Secretariat, Chandigarh

2. Sh. Adesh Partap Singh Kairon
   Food & Civil Supply Minister, Punjab Civil Secretariat, Chandigarh

3. Dr. Rattan Singh Ajnala, MP
   213, E Block, Ranjit Avenue, Amritsar

4. Sh. Avinash Rai Khanna
   Member, Rajya Sabha #202, Bramputra, Dr. B. D. Marg, New Delhi

5. Sh. Naresh Gujral
   5-A, Amrita Shergill Marg, New Delhi-110003

6. Principal Secretary,
   Deptt. of Finance, Govt. of Punjab Punjab Civil Secretariat, Chandigarh

7. Chief Secretary to Govt. of Punjab, Punjab Civil Secretariat, Chandigarh

8. Director,
   National Institute of Technology, Jalandhar

9. Director,
   Central Scientific Instruments Organisation, Sector 30, Chandigarh

10. Director
    National Agri-food Biotechnology Institute, Phase VIII, Industrial Area, Mohali

11. Director
    National Institute of Technical Teachers Education & Research Sector 26, Chandigarh

12. Director
    Terminal Ballistic Research Laboratory, Sector 30, Chandigarh – 16002

13. Director,
    Confederation of Indian Industry (CII), Northern Region, Sector 31-A, Chandigarh-160047

14. Director,
    NIPER, Phase-X, Mohali

15. Secretary to Government of India, Ministry of Culture, Shastri Bhawan, New Delhi

16. Head NCSTC,
    Deptt. of Science and Technology, Technology Bhavan, New Mehrauli Road, New Delhi-110016

17. Financial Advisor,
    Ministry of Culture, Shastri Bhavan, New Delhi-110001

18. Vice Chancellor,
    Punjab Technical University, Jalandhar-Kapurthala Road, Kpt
19 Vice-Chancellor,
Central University of Punjab,
City Campus, Mansa Road, Bathinda – 151001

20 Vice Chancellor,
Guru Nanak Dev University,
Amritsar

21 Vice Chancellor,
Punjab Agriculture University,
Ludhiana 141004

22 Vice Chancellor,
Punjabi University, Patiala

23 Vice Chancellor,
Panjab University, Sector 14,
Chandigarh-160014

24 Vice Chancellor,
Baba Farid University of Health Sciences,
Faridkot
Sadiq Road Faridkot --- 151203 (Pb)
India

25 Principal Secretary,
Deptt. of Science, Technology and Environment,
Mini Secretariat, Chandigarh

26 Principal Secretary,
Deptt. of Industries, Govt. of Punjab,
Udyog Bhawan, Sector 17, Chandigarh

27 Secretary,
Dept. of Higher Education ,Govt. of Punjab,
Room No. 607, 6th Floor,
Mini Secretariat, Chandigarh

28 Secretary,
School Education
Room No. 616, 6th Floor,
Mini-Secretariat, Sector 9, Chandigarh

29 Director
Science City,
EM By Pass & Park Circus Connector,
Kolkata-700046

30 Chairman,
State Board of Technical Education Board,
Punjab
Takniki Sikhia Bhawan,
A-1, Sector 36-A, Chandigarh

31 Director, National Science Centre,
Bhairon Road, Pragati Maidan Near Gate No. 1,
New Delhi-110001

32 Executive Director,
Punjab State Council for Science & Technology,
MGSIPA Complex,
Sector 26, Chandigarh-160019

33 Dr. Neelima Jerath,
Member Secretary, PGSC,
SCO 60-61, 3rd Floor, Sector-34-A,
Chandigarh

39
<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Sh. Sarvesh Kaushal, IAS</td>
<td>Chief Secretary to Govt. of Punjab, Room No. 26, 6th Floor, Punjab Civil Secretariat, Chandigarh.</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Rattan Singh Ajnala, MP</td>
<td>213,E Block, Ranjit Avenue Amritsar</td>
</tr>
<tr>
<td>4.</td>
<td>S. Pargat Singh</td>
<td>MLA, Punjab Vidhan Sabha 5, Dashmesh Avenue, Cantt Road, Mithapur, Jalandhar</td>
</tr>
<tr>
<td>5.</td>
<td>Secretary to Government of India, Ministry of Culture</td>
<td>Shastri Bhawan, New Delhi</td>
</tr>
<tr>
<td>6.</td>
<td>Secretary to Govt. Of Punjab</td>
<td>Deptt. Of Science and Tech &amp; Env. Punjab Civil Sectt. 2, Sec 9, Chd</td>
</tr>
<tr>
<td>7.</td>
<td>Principal Secretary</td>
<td>School Education Punjab Civil Sectt. 2, Sec 9, Chd</td>
</tr>
<tr>
<td>8.</td>
<td>H.H. (Brig.) Sukhjit Singh</td>
<td>The Villa, Kapurthala</td>
</tr>
<tr>
<td>9.</td>
<td>Prof. R.K. Kohli</td>
<td>Vice Chancellor, Central University of Punjab, City Campus, Mansa Road, Bathinda, Punjab</td>
</tr>
<tr>
<td>10.</td>
<td>Sh. Rashpal Malhotra,</td>
<td>Vice Chairman, CRRID, Sector-19-A, Madhya Marg, Chandigarh</td>
</tr>
<tr>
<td>11.</td>
<td>Director General</td>
<td>CSIR, Anusandhan Bhawan, 2, Rafi Ahmed Kidwai Marg, New Delhi – 110 001</td>
</tr>
<tr>
<td>12.</td>
<td>Vice Chancellor, Punjab Technical University</td>
<td>Jalandhar-Kapurthala Road, Kapurthala</td>
</tr>
<tr>
<td>13.</td>
<td>Chairman</td>
<td>Punjab State Council, Confederation of Indian Industry (CII), Northern Region, Sector 31-A, Chandigarh-160047</td>
</tr>
<tr>
<td>14.</td>
<td>Dr. B.P. Singh</td>
<td>Head, NCSTC, Deptt. of Science and Technology, Technology Bhavan, New Mehrauli Road, New Delhi-110016</td>
</tr>
<tr>
<td>15.</td>
<td>Financial Advisor</td>
<td>Ministry of Culture, Shastri Bhawan, New Delhi-110001</td>
</tr>
<tr>
<td>No.</td>
<td>Name</td>
<td>Position / Organization</td>
</tr>
<tr>
<td>-----</td>
<td>-----------------------------------</td>
<td>------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>16</td>
<td>Executive Director</td>
<td>Pb. State Council of Sc. &amp; Tech., MGSIPA Building, Sector-26, Chandigarh</td>
</tr>
<tr>
<td>17</td>
<td>Sh. Barjinder Singh Hamdard</td>
<td>Editor, Daily Ajit (Punjabi) and Ajit Samachar (Hindi), Nehru Garden Road, Jalandhar City</td>
</tr>
<tr>
<td>18</td>
<td>Sh. Avinash Chopra</td>
<td>Joint Editor, Hind Samachar Group / Punjab Kesari, Civil Lines, Jalandhar</td>
</tr>
<tr>
<td>19</td>
<td>Sh. Manish Tiwari</td>
<td>Chief Editor, Daily Post, H. No. 102, Sector 19-A, Chandigarh</td>
</tr>
<tr>
<td>20</td>
<td>Director</td>
<td>National Science Centre, Bhairon Road, Near Pragati Maidan Gate No. 1, New Delhi</td>
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<td>21</td>
<td>Director</td>
<td>NIPER, Phase-X, Mohali</td>
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<tr>
<td>22</td>
<td>Director</td>
<td>Central Scientific Instruments Org., Sector 30, Chandigarh – 160020</td>
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<td>23</td>
<td>Director</td>
<td>Terminal Ballistic Research Laboratory, Sector 30, Chandigarh</td>
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<td>24</td>
<td>Director</td>
<td>National Institute of Technology, Jalandhar</td>
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<tr>
<td>25</td>
<td>Director General</td>
<td>Sardar Sawarn Singh National Institute of Bio-Energy, Jalandhar-Kapurthala Road</td>
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<tr>
<td>26</td>
<td>Principal Secretary</td>
<td>Tourism, Govt. of Punjab, Punjab Civil Secretariat - II Sector 9, Chd</td>
</tr>
<tr>
<td>27</td>
<td>Deputy Commissioner</td>
<td>Kapurthala</td>
</tr>
<tr>
<td>28</td>
<td>Dr. Neelima Jerath</td>
<td>Member Secretary, PGSC, SCO 60-61, 3rd Floor, Sector-34-A, Chandigarh</td>
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</table>
GLIMPSES OF SCIENCE CITY
An Emblem of pride for Punjab

Pushpa Gujral Science City

Jalandhar- Kapurthala Road, Kapurthala (Punjab)

Phone: 01822-501963/64 Fax: 01822-501966