



Introduction

- The Initiative for Research & Innovation in Science (IRIS) is a research based national science fair for students from class 8 to 12 that aims to inspire budding innovators in India.
- It is a public-private partnership between Department of Science and Technology, Government of India (DST), Indo US Science and Technology Forum (IUSSTF) and Intel® that aims to inspire budding scientists in India.

Highlights

- The IRIS website www.IRISNationalFair.org received over 1050 project synopses online for evaluation towards gaining entry into the IRIS National Science Fair; of these 70 projects were invited to participate in IRIS 2017
- The fair was held at Sam Manekshaw Centre, New Delhi from 16-18 November 21, 2017, and a total of 102 students participated in it
- Smt Meenakshi Lekhi Hon'ble Member of Parliament (Lok Sabha) New Delhi Constituency Chief Guest at The IRIS Inaugural Ceremony, congratulated participants for their innovative projects.
- Recipients of the Intel – IUSSTF Scientific and Cultural visit to India Award ISEF 2017 along with Lisa Icenroad, Manager Domestic Fairs Society for Science and the Public, were also present at IRIS 2017 having travelled from USA for the same.
- The fair was open to public viewing on two days and drew students and science enthusiasts from schools and colleges in Delhi NCR
- There were a total of 26 Judges to evaluate the projects
- Ms Isabell Detwiler, Deputy Minister Counsellor US Embassy, New Delhi presented the Special Awards at the Valediction Ceremony
- The event was attended by several IRIS/ ISEF Alumni who freely volunteered their time and helped to make the Fair a success

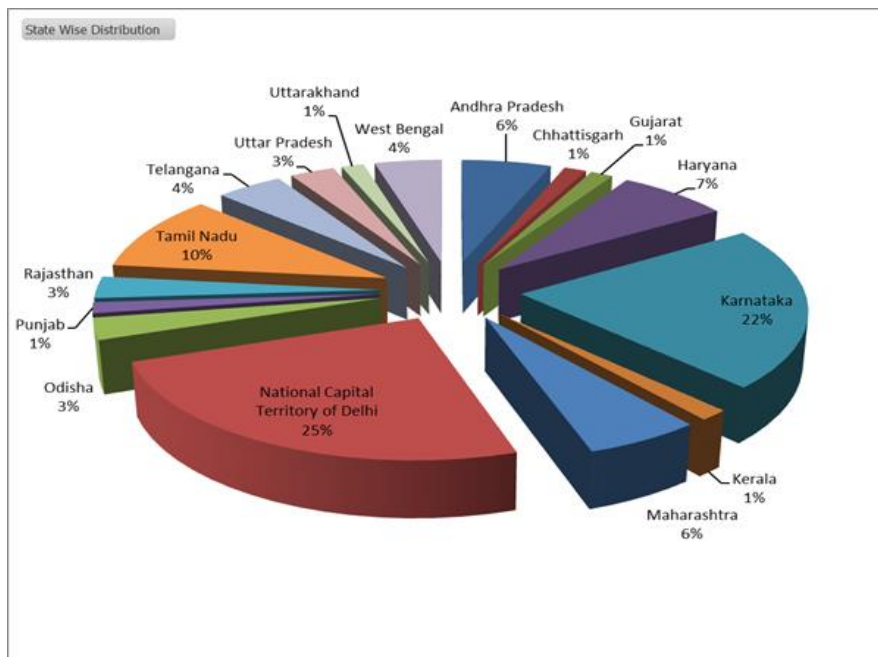
Awards

- 20 projects were presented the IRIS Grand Award – winners of this award will represent India at the Intel International Science and International Fair at Los Angeles in May 2017 (List Attached)
- 9 Special Awards were also presented courtesy IRIS affiliation to Intel ISEF. Included among these was the Society for Science and the Public Award for Community Innovation award for 2017 -18

Additional Details

- The IRIS Facebook page www.facebook.com/IRISNationalFair with over 75,000 followers carries pictures and highlights of the event

Details of Projects at IRIS from across India



Grand Awards - IRIS 2017					
Project IDs	Project Category	Project Name	Name of Student(s)	Name Of School	City
EN01	Engineering: Material & Bioengineering	An Economical Early Detecting and Dosage Monitoring Tool for PEM	Swasthik Padma & Mohd Suhail C S	St Aloysius P U College	Mangalore
CS03	Computer Science	An Inexpensive Solution for Visual Acuity Testing in Preverbal Children Using Deep Convolutional Neural Networks	Ishita Mangla	Delhi Public School R K Puram	New Delhi
CS05	Computer Science	Architecture Tweaking Image Analysis Software For Automated Detection of Land Features In Satellite Images	Param Singh Gujral	La Martinier e for Boys	Kolkata
EE01	Engineering: Electrical & Mechanical	Exoheal	Zain Ahmed Samdani	Al Yasmin International School	Hyderabad
EA01	Earth & Planetary Science	Studying Planetary System Formation through Analysis of Exoplanetary Data	Antara Raaghavi Bhattacharya	GD Somani Memorial School	Mumbai
CS08	Computer Science	Connecting Doctors for Good Using a Peer Lung Cancer Detection program	Parth Raghav	Pusa Public School	New Delhi
CS10	Computer Science	Machine Learning Approach to Cancer Identification	Shinjini Ghosh	South Point High School	Kolkata
PH01	Physics	Determining Space Debris Orbits for Collision Prediction Using Chaos Theory	Aswath Suryanarayanan	Devi Academy Senior Secondary School	Chennai
PS01	Plant Sciences	The Plant Doctor	Kaushik Kunal Singh	Inventure Academy	Bengaluru
MA03	Mathematics	Proof of the Analogue of SZEMEREDI'S Theorem for Rectangles, $N \times N$ Lattice, Cuboid and N -Orthotope	Nishant Dhankar	Delhi Public School, R K Puram	New Delhi
MA01	Mathematics	Solving A Mathematical Mystery: SCHINZEL'S CONJECTURE	Sacheth Sathyanarayanan	National Public School, Chennai	Chennai
CB01	Cellular & Molecular Biology	A Novel Approach to a P53 Stabilizing Agent to Accelerate Cell Apoptosis to Prevent Malignancy and Initiate Cell Arrest	Shuvayu Dasgupta & Syed Roshan Ali	La Martinier e for Boys	Kolkata

MI01	Microbiology	<i>Biodetoxification of Hexavalent Chromium using Anabaena Cylindrica</i>	Naisargik Lenka	DAV Public School, Unit-8	Bhubaneswar
MI04	Microbiology	<i>Insights Into Bacterial Pathogenesis- Establishing Quorum Sensing as a Novel Virulence Regulator</i>	Harshit Jindal	Maharaja Agarsain Public School	New Delhi
PS02	Plant Sciences	<i>Efficient and Economical Control of Pests in Rice through Seedlings raised in Soilless Media Using Nano Biopesticides</i>	A Siva Bharathi	NSN Matriculation Higher Secondary School	Chennai
CB03	Cellular & Molecular Biology	<i>Epigenetically Repressing Endocrine Disruptions Through Algal Derivative for an Obesity Free World</i>	Tanya Goyal & Sharen M C	Maharaja Agarsain Public School	New Delhi
MI03	Microbiology	<i>Fabrication of Specific Genosensor for the Detection of Pathogenic E Coli using Uniquely Designed Molecular Tag From 16S RNA Gene</i>	Kunal Singh	Maharaja Agarsain Public School	New Delhi
BH02	Behavioral & Social Science	<i>Creating Self Designed Mazes for Autistic People to Map Their Analytical Skills</i>	Tanya K Talwar & Akshat Gupta	Amity International School, Pushp vihar	New Delhi
ME01	Medicine & Health Sciences	<i>Non- Invasive Self Detection Asymptomatic Acute Myocardial Infarction using Bioelectrics</i>	Akash Manoj	The Ashok Leyland School	Hosur
EV03	Environmental Sciences	<i>Cost Effective, Real-Time Monitoring of Polluting in Water Bodies using a Portable Floating Device</i>	Pranav Shikarpur & Siddharth Viswanath	Bangalore International Academy	Bengaluru

Special Awards

S.No	Award	Code	Name	Project Title
1	Certificate of Award by the American Psychological Association	BI02	Rakshith Vyas & Ananth Gagan Pappala	Sugar Testing Exhalometer
2	Certificate of Award by the American Psychological Association	BH01	G Manasa G Sushanth	Electrical learning aid for visually challenged children for gaining confidence to take up Engineering field which can elevate their status equal to sighted children and help in maintaining social relationship in the society.

3	The Society for In Vitro Biology AWARD	CB01	Shuvayu Dasgupta & Syed Roshan Ali	A novel approach to a p53 stabilizing agent to accelerate cell apoptosis to prevent malignancy and initiate cell arrest
4	Student awards for Geoscience Excellence by Association For Women Geoscientists AWARD	EM01	Lalitha Pingali	STINK MAP Monitoring Environmental Pollution by Detecting and Classifying Odors using a Simple and Easy to use Mobile Probe
5	Mu Alpha Theta AWARD	MA05	Ayush Sachdeva & Siddhant Mal	Vector to People (V2P) Disease Prediction : A Differential Equation Approach
		MA03	Nishant Dhankhar	Proof of the analogue of Szemerédi's theorem for rectangles, $n \times n$ lattice, cuboid and n -orthotope
6	Yale Science and Engineering Association award for the most outstanding exhibit Ricoh Sustainable Development Award	CH01	Eshan Bajaj	A Nano Solution to Giga Nano Problems
		EV03	Pranav Shikarpur & Siddharth Viswanath	Cost effective, Real-time monitoring of pollution in water bodies using a portable floating device
7	INTEL EXCELLENCE IN COMPUTERS SCIENCE AWARD	CS11	Shreya Sandurkar	RoadVisor A Smartphone App to Sense Bumpy Conditions of Indian Roads
8	Award By University of Toronto Faculty Of Applied Sciences & Engineering	CS01	Aman Shrivastava	iThink: A wearable self-learning neurotransmitter with embedded database and trained neural networks for encoding EEG raw data enabling Brain to Text(BTT), Brain to Speech(BTS) and Brain to Command(BTC) for real-time BCI and machine learning applications.
9	Society for Science & the Public - Award for Community Innovation	EE03	Shubh Snehalbhai Dholakiya	Detachable Set of Piston Cylinder Spring System And Portable Side Stand for the bicycle Enabling user to ride with one leg

