
Young
Inventors
Challenge
Report 2014


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Young Inventors Challenge
2014 Report

Compiled by:
YIC 2014 Working Group Committee and ASTI Committee

Design, Layout & Editing:
Ragavan Pandian (*Freelance Designer*)

Our Heartfelt Thanks!

Ministry of Education

Embassy of United States of America

CIMB Foundation-CIMB Community Link

Malaysian Communication & Multimedia Commission (MCMC)

National Land Finance Co Operative Society Ltd (NLFCS)

MyNadi Foundation

Hay Group

Tun Dr. Siti Hasmah Mohd. Ali

Tun Dr. Mahathir Bin Mohamad

Dato' Seri Kalimullah Bin Masheerul Hassan

ASTRO Vaanavil

And

all the Judges, Volunteers and Event Committee.

Working Group Committee of YIC 2014

Project Advisor
Dr. Mohamed Yunus Bin Mohamed Yasin

Project Director
Mr. Anandan Shanmugam

ASTI Secretariat Representative
Ms. Vanitha Vasu

Chief Judge I
Ms. Poovarasi Balan

Chief Judge II
Dr. Ewe Chun Te

Training and Event Committee Head
Mr. Jegatheswaran Panderengen

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Executive Summary

The Young Inventors Challenge (YIC) is one of ASTI's project to promote Science, Technology and Innovation among school children and young minds. Following YIC 2013 success, ASTI organized YIC 2014 to reach a larger portion of the Malaysian High School children to encourage them to experience the inventive process. The theme for 2014 was retained from 2013, which was GREEN INVENTIONS: IDEAS ON SUSTAINABILITY. We hope to promote ideas on sustainability to permeate among the participants.

This challenged was divided into 3 phases; proposal invitation and selection; regional training of teams and grand finale. In the pilot project in 2013, 19 teams registered and 12 teams participated. A total of 156 teams registered for YIC 2014, of which 111 teams managed to formulate and send in their ideas as proposals; out of which 56 best proposals were shortlisted and 49 teams took part in the grand finale. The growth of the project has been phenomenal.

The top 3 winning teams were from SM Lodge Kuching, Sarawak (White Penguin), SMJK Chung Ling Butterworth (Intelligent Recyclers) and Tunku Kursiah College Negeri Sembilan (Sky Salvador). The video log competition also received positive feedback and the top 3 winners were from MRSM Tun Abdul Razak, Pahang (MRSMTAR1), SMK Datuk Haji Abdul Samad, Negeri Sembilan(The Salvagers) and MRSM Tun Abdul Razak, Pahang(MRSMTAR9).

Students taking part in the event showed a lot of enthusiasm and potential to use science as a tool to solve problems. In future ASTI hopes more teams will participate in YIC which would attract more funding organizations to collaborate with YIC to help create a new cream of inventive Malaysian Society. YIC is a truly 100% Malaysian project, conceived and developed here. It was not imported from anywhere else. It had attracted over 100 volunteers to help make the project a success.

1 Introduction

The Association of Science, Technology and Innovation (ASTI) is an non-governmental organization (NGO) working towards empowering young children through various projects such as Science Fair for Young Children (SFYC), Young Inventors Challenge (YIC), and Creative and Critical Thinking Camp (CCTC).

Science Fair for Young Children (SFYC) is a project designed for primary school students, and about 200,000 participants have taken part in this initiative, both at the school, regional and national level. As a follow up to the SFYC, a competition at a more advanced level for the Alumni was proposed in the form of the Young Inventors Challenge (YIC), which requires teams of up to 5 each to put their minds together and come up with an invention. In 2013 the theme "GREEN INVENTIONS: IDEAS ON SUSTAINABILITY" and a total of 12 teams from all over the country participated in this pilot project, showcasing their green inventions.

Thus for 2014, ASTI has expended the competition to wider scope based on the same theme GREEN INVENTIONS: IDEAS ON SUSTAINABILITY.

2 Aims & Objectives

Among the main aims and objectives of YIC 2014 are:

- To give an opportunity to young inventors to develop and showcase their inventions in the area of sustainability.
- To help young inventors to experience the inventive cycle, from conceptualisation to product/prototype.
- To introduce the concept of sustainability to the participants.
- To give opportunities to young adults who are inventive to promote their ideas to the world.

By participating in YIC 2014 it was hoped that the participants would:

- Produce an original invention and receive recognition for participating in the event.
- Develop creative and innovative thinking skills.
- Develop teamwork dynamics to solve problems.
- Use resources such as the internet and library to hone their research skills.
- Learn to document their invention project.
- Enhance self-esteem.
- Acquire public presentation and writing skills.

2.1 Target Group

- Young people aged between 13 to 17 *(Form 1 to 5)*
- A team of 3- 5 young people
- Special provision for teams made up of different races *(Highly Encouraged)*

2.2 Prefered Output & Outcome

Preferred Output	Preferred Outcome
Understand the invention process	Creation of a network of young inventors
Understand the concept of sustainability	Creation of Inventors with their own IPs
Learn to communicate invention process via video log	Young people with confidence to think/act "outside the box"
	A community of young thinkers who would benefit their community and nation

3 Mode Of Implementation

3.1 Publicity - Sending Out Letters

- *During the month of January and February 2014 information flyers on YIC 2014 with a cover letter was sent to1000 randomly selected schools.*
- *We manage to send flyers and letters to the variety of Schools as follows:*
  - *Mara Junior Science College (MRSM)*
  - *Boarding Schools*
  - *Smart Schools*
  - *High Performance School*
  - *Cluster School of Excellence*
  - *International Schools*
  - *Private Schools*
  - *Tuition Centers*
- *Some follow-ups with phone calls and publicity through ''word of mouth'' were also done.*

3.2 Early Stage Promotion

- *The project was also promoted via BFM interview and Vizhuthugal Interview by ASTRO.*
- *The BFM interview was attended by Dr.Mohamed Yunus Yasin whereas the Vizhutugal Interview was attended by Mr.Anandan Shanmugam and Dr.Mohamed Yunus Yasin.*

3.3 Participants Application

- *Interested students were requested to form a team of 3-5 people.*
- *Each team required to have at least one Mentor, and submit their application to ASTI.*
- *As of 15 April 2014, ASTI had received a total 156 applications.*
- *Once the applications were received, the teams were emailed with the Students Manual as a guideline for them to prepare their Invention proposals. They were given 15 days to submit their proposals.*
- *ETA involvement in YIC 2014*
  - *English Teaching Assistant (ETA) program is a direct result of discussions between Prime Minister Datuk Seri Najib tun Razak and President Barack Obama, and is designed to help strengthen U.S.-Malaysia relations and improve mutual understanding.*
  - *There were 100 ETAs assigned to teach English in schools throughout Terengganu, Johor, Pahang, Perak, and for the first time, in Sabah and Sarawak.*
  - *Two of the ETAs have successfully encouraged their students to participate in Young Inventors Challenge 2014.*
  - *Ms. Bridget Kelly from SMK Slim, Perak and Ms. Emily Fleitz from SMK Sungai Damit, Sabah have brought in a team from their respective schools to take part in YIC 2014 and both this teams were qualified to take part in the Grand Finale.*

3.4 Proposal Submission By Participants

As of 25 April 2014, ASTI had received a total of 111 proposals with a broad range of ideas related to the sustainability theme to be marked by a panel of judges.

3.5 The Judging Process : Proposal Marking and Shortlisting

- Each proposal was blindly reviewed by three different judges.
- The proposals were emailed to the judges along with the marking spreadsheets and marking guideline.
- There were a total of 40 judges from across the nation who volunteered their time. They were experts from academia and industry.
- Each result was cross-referenced.
- The judges had a tough time screening through the proposals three times, since the process was rigorous, before finalizing the qualifying teams.
- There was also a final "judging review" meeting held at ASTI office, on the 10 May 2014 to finalize the shortlisted teams. A total of 10 judges attended this meeting.
- The judges decided to set a cut-off mark of 50% for the final team to be selected.
- 56 best proposals were shortlisted according to the 50% criteria, and the shortlisted teams were notified via email on the 12th of May 2014.
- Please refer to table 1 for Breakdown of Applications Received, Proposals Received and Shortlisted Teams

No	State	Applications Received	Proposals Received	Shortlisted Teams
1	Kedah	4	4	0
2	Penang	13	11	7
3	Perak	2	3	1
4	Selangor	40	32	21
5	Negeri Sembilan	2	2	2
6	Melaka	1	1	0
7	Johor	38	23	6
8	Pahang	29	16	5
9	Kelantan	2	2	2
10	W.P.Putrajaya	2	2	1
11	W.P.Labuan	4	1	1
12	Sabah	6	4	3
13	Sarawak	13	10	7
TOTAL		**156**	**111**	**56**

Table 1: *Breakdown of Application Received, Proposal Received and Shortlisted Teams.*

4 Training for YIC Participants

4.1 Preparation of The Training Documents

- Master trainers were selected and the modules were developed by the R&D department of ASTI with the help of the YIC committee.
- A detailed mentoring manual for YIC was prepared by ASTI R&D Department and emailed out to all the mentors.
- The master trainers were Mr Tan Eng Tong, the Chief Operating Officer of the Putra Business School (the best business school in Malaysia), Mr Anandan Shanmugam from the University of Nottingham Malaysia Campus, Engineering Department, Ms.Poovarasi Balan from Monash University's Chemical Engineering Department, Dr Mohamed Yunus Yasin from "The 450 Movement", and Ms Helen Sproule Ng from R&D Department of ASTI.

4.2 Training for Shortlisted Teams

- On the 17th of May 2014, Training of Trainers*(TOT)* was conducted to finalize the flow of the Students Training Information and Presentations.
- The training was conducted by the master trainers.
- During the *TOT*, training teams were formed and each team was assigned to conduct the students training in various states.
- The training agenda was finalized as shown in table 2:

Time	Programme	Duration
9.00am to 9.50am	Arrival ,Registration and Breakfast	50 Minutes
9.50am to 10.00am	Introduction on '**YIC 2014**'	10 Minutes
10.00am to 10.45am	Presentation on '**Understanding Design and its Creative Processes**'	45 Minutes
10.45am to 11.30am	Presentation on '**Sustainability and the Environment**'	45 Minutes
11.30am to 12.15pm	Presentation on '**Judging Criteria** and **Feedback**'	45 Minutes
12.15pm to 1.00pm	Lunch	45 Minutes
1.00pm to 2.00pm	Mentor Training Team Building Activities	1 Hour
2.00pm to 3.00pm	Examples of '**Innovation Project Case Studies**'	1 Hour
3.00pm to 3.45pm	Presentation on '**Intellectual Property**'	45 Minutes
3.45pm	Programme Concludes	

Table 2: *YIC Students Training Agenda*

As a follow-up, the shortlisted teams were invited to attend the YIC 2014 Students Training as shown in Table 3:

Trainings	Date	Venue	Teams	Students	Mentors
KL & Selangor	24.05.2014	Menara PGRM	23	86	15
Penang	24.05.2014	College Damansara Utama (KDU)	7	22	3
Johor	24.05.2014	Tropikal Inn Johor Bharu	6	24	2
Pahang	21.06.2014	Mega View Hotel Kuantan	7	30	5
Sarawak	21.06.2014	SM Lodge, Kuching	7	28	3
Sabah	22.06.2014	SM Sains Sabah, Kota Kinabalu	4	18	6
		TOTAL	54	208	34

Table 3: YIC Students Training

4.3 YIC 2014 Students Training Survey Analysis

During the Young Inventors Challenge (YIC) 2014 Student Training which were held in the month of May and June 2014, a survey was conducted on the Satisfaction Level of the Students Attending Young Inventors Challenge Training. All participants who attended the training participated in the survey and below is the summary of their respond.

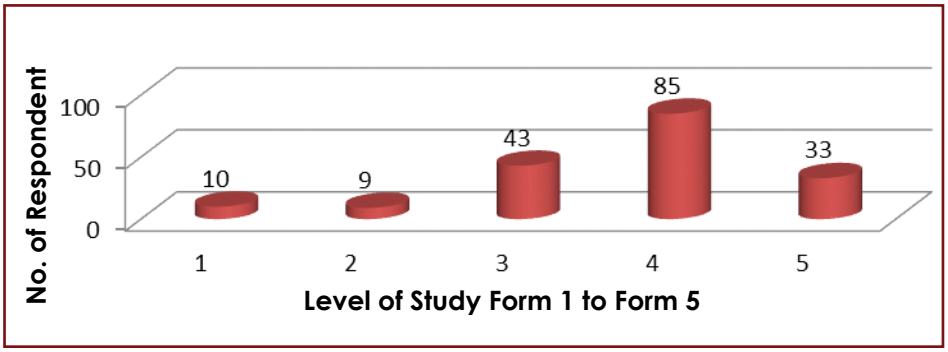


Figure 1: *Level of Study of YIC 2014 Participants*

Based on Figure 1, a total of 180 students participated in the survey and 65% of the participants who attended the training were from higher secondary, Form 4 and Form 5, whereas the balance of the 62 participants who attended the training were from Form 1 to Form 3.

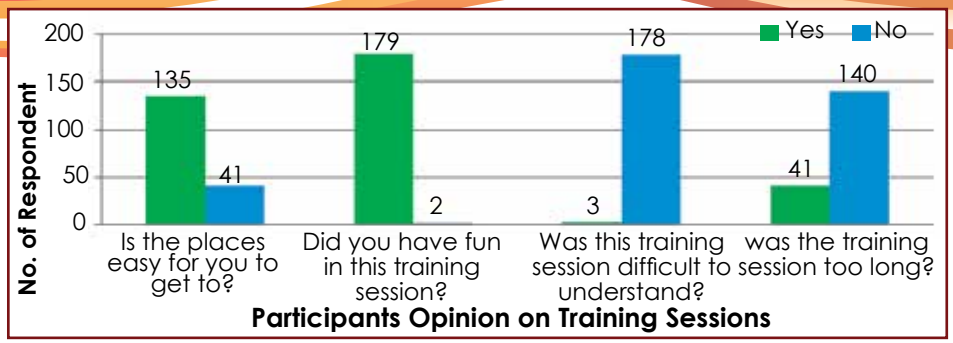


Figure 2: *Participants Opinion on Training Sessions*

The bar chart in figure 2, shows the effectiveness of the program with the aim of improving the program. Based on bar chart shown above, most of the students were satisfied with the YIC 2014 Students Training. Most of the participants had fun through the training and they enjoyed the training. They also responded very positively that the training session was easy to understand and they were able maximize their learning experience in the session.

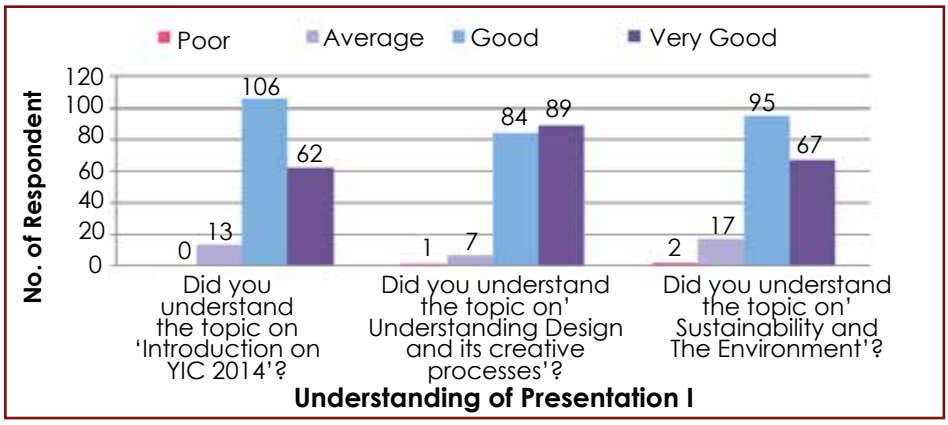


Figure 3: *Understanding of Presentation I*

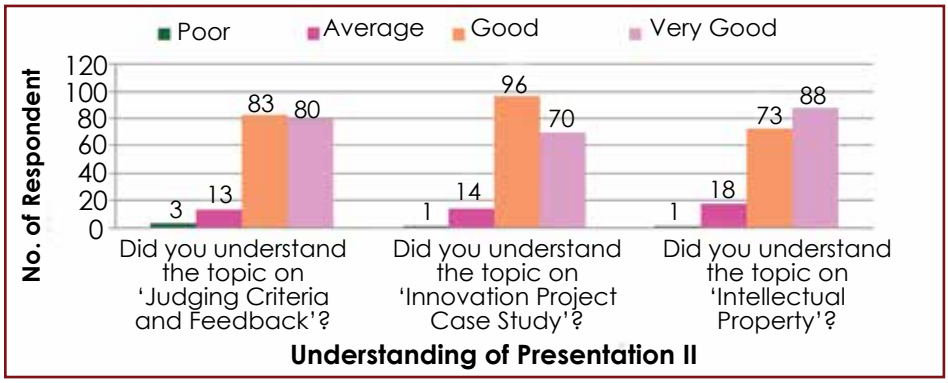


Figure 4: *Understanding of Presentation II*

The figure 3 and 4 shows that majority of participants were able to understand all the topics of presentation as mostly rating good and very good. Very few participants face difficulty in understanding the topic of discussion. There were teams, especially from the rural schools who did not have good command of English. This is a matter to be looked into in the coming year.

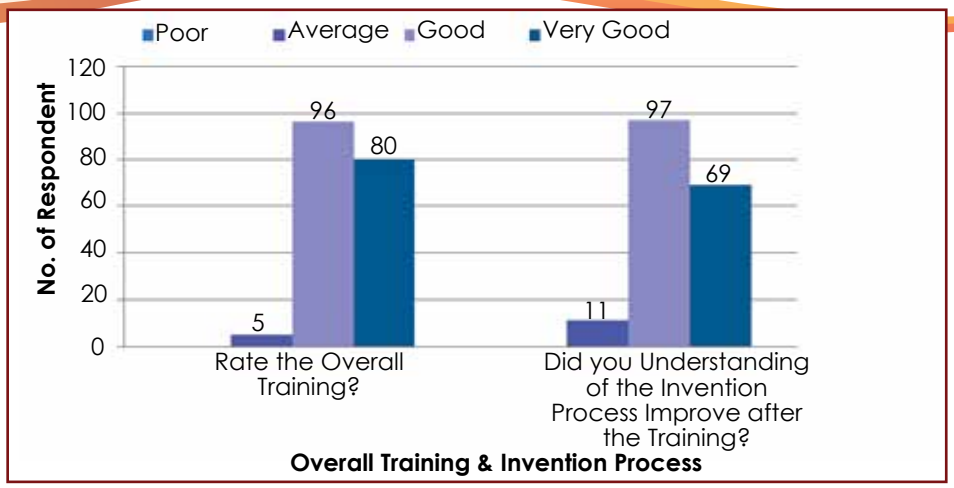


Figure 5: *Overall Training & Invention Process*

Figure 5, shows the Participants Satisfaction Level on the Training Session. Based on the figure we can conclude that most of the participants from all the states rated good and very good for overall rating of the training session and 92 % of the participants understand the invention process very well after they attended the training.

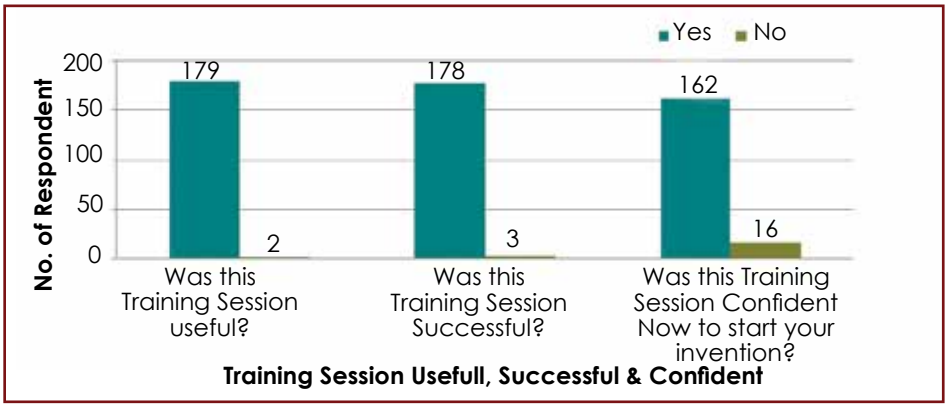


Figure 6: *Training Session Usefull, Successful & Confident*

Figure 6, shows that the participants were very satisfied with the training session as they responded that the training was very useful for them to start their project. Participants also felt that the training session was very successful and they strongly agreed that they are very confident to start their invention.

5 Event Day

5.1 YIC 2014 Participants

Before the event day, the YIC secretariat was in constant communication with teams with regular update and trying to assist where it was needed. A total of 7 teams dropped out mostly due to their invention not working or other extraneous reasons which the YIC committee will look into for the following years by modify the process where needed.

The details of the participating teams are shown in the Table 4 below:

Table 4: YIC 2014 Participants Details.

YIC 2014 PARTICIPANTS DETAILS					
No	**State**	**Team**	**Name**	**School**	**Video Log**
1	WP Putra jaya	Sea Power (SAS Innovation)	Muhammad Aliff Redzuan Bin Azlee Khairul Izzat Bin Mohd Jeffery Muhamad Adli Bin Anuar Nor Azam Bin Mohd Jamal Muhamad Aniq Danish Bin Hadi	Sekolah Sultan Alam Shah Putrajaya	Yes
2	Selangor	Producing Hydroelectric Power using Tapwater	Pelia Se Young Jeong Kim Se Hee You Jeong Min Adarsh Govindarajan Sung Ho Park	Maz International School, PJ Campus	Yes
3	Selangor	Multipurpose Vacuum Cleaner	Danish Farooq Bhat Akshat Nigam Mukessh Subramaniam Jonathan David M.de Leon Sayan Nandy	Maz International School, PJ Campus	No
4	Selangor	Ecofriendly Overbed Table	Ahmed Azhan Mohamed Mohammed Bin Nima Jacky Chia Chee Hoe Muhammad Said A.Zamzami Alice Dinh Phuang Thao	Maz International School, PJ Campus	Yes

YIC 2014 PARTICIPANTS DETAILS

No	State	Team	Name	School	Video Log
5	Selangor	Hybrid Car	Tharumendran Lee Sung Min (James) Sevvandran Ganeswaran Ke An Ni Kugan Ravindran	Maz International School, PJ Campus	No
6	Selangor	Sci-Fi'ers	Puneet Singh Gramal Adam Razhan Merican Marc John Frenandez Sanisha Das Tanisha Mukherjee	Maz International School, PJ Campus	No
7	Selangor	Girls Genuis/ Silent Assasins	Madeline Siow Zi Ting Kathryn Ann V.Conceprion Salsabeelah Khalid Osman Yousuf Magdellah Lim Negar Nouri Neshat	Maz International School, PJ Campus	No
8	Selangor	Hybridship System	Muhammad Naiem Naqiuddin b Zaharin Rauhah bt Saha Wan Muhammad Adeeb b Hassan Azizi	Sekolah Menengah Agama Persekutuan Kajang	No
9	Selangor	ZAM	Priyalini Al Bharath Edward Peter Hong Kar Cheng Edwin Lai Ze Hong	Maz International School, PJ Campus	No
10	Selangor	FIVE 4	Natalia Bong Sue Yin Natasha Bong Sue Yan Yogashree Thrunavukarasu Aysha Fateeha Bt Ahmad Sharudin Nur Diyana Bt Kamarudin	Asia Pacific Smart School	Yes
11	Selangor	Titanium	Tunku Elsa Binti Tunku Karldej Sharina Binti Azhari Wan Hakim Bin Wan Burhanuddin Addam Yusof Bin Basil Yusof Mahmud Hefdzi Othman Bin Mahmud Morshidi	Asia Pacific Smart School	No

YIC 2014 PARTICIPANTS DETAILS

No	State	Team	Name	School	Video Log
12	Selangor	Silverarrows 98	Aaron Matthew Buda Vishal Menon Shankar A/L Chandrasegaran Jordan Yeoh Jin Yi	Asia Pacific Smart School	No
13	Selangor	Erudite	Sofea Qistina Isharhan Zhafyra Irdina Anuar Fatihah Binti Mohd Raji Mysara Bt Jamaludin	Asia Pacific Smart School	No
14	Selangor	Frozen Air	Audrey Lee Weng Yan Mak Ling Yan Nurul Iman Bt Syed Alwi Siti Nur Sabrina Bt Abdul Razak Azalea Zakirah Zailan	Asia Pacific Smart School	No
15	Selangor	Ferocious Inventors	Sureshbarath A/L Pungkavanam Kavinesh Kumar A/L Chandran Sidharrthan A/L Pichyalagan Mahathevan A/L Sathiamurthy Vivan Khartik A/L Virasamy	SMK Bukit Sentosa	No
16	Negeri Sembilan	The Salvangers	Muhammad Arsyad Bin Mohd Anipah Satyaseelan A/L Sivam Surendren A/L Murugan	SMK Datuk Haji Abdul Samad	Yes
17	Selangor	TTDI World	Siti Nur Mubasyirah Bt Ismail Nadiah Mahirah Binti Dzakwan Putri Nur Affiza Bt Rigil Wahyu Nugroho Nur Alya Farhanah Bt Ahmad Khairiri	SMK TTDI	No
18	Selangor	KOM	Khor Wei Wen Krishna Manoharan Ong Ju Lynn	Sri Kuala Lumpur Secondary School	No
19	Selangor	Morgan Innovators	Muhammad Danish Bin Dzakihilmy Ryan Kang Jee Hong Chan Yen Feng Tan Zhi Chuen Hor Ming Xiang	Sri Kuala Lumpur Secondary School	No

YIC 2014 PARTICIPANTS DETAILS

No	State	Team	Name	School	Video Log
20	Selangor	Fearsome Foursome	Shuvalalakshimey Veethasalam Lim Zhi Ying Germaine Hew Yi Lin Lilla Krishma Ravendran	SMK(P) Sri Aman	No
21	Selangor	Beo Wulf	Nihad Sophia Bt Md Alwi Durrah Sharifah Bt Ahmad Azlan Nadia Natasha Tiffanny Chin Xiao Jing Ong Gaik Suan	SMK(P) Sri Aman	No
22	Negeri Sembilan	Sky Salvador	Nur Liyana Nabihah Yusof Nurul Najihah Ahmad Nur Afiqah Adyani Binti Razak	Tunku Kurshiah College	No
23	Perak	SMK Slim Grate Braids	Nininalisa Wak Aireen A/P Yunus Flourannee Taisin Sarah A/P Bah Juhamat	SMK Slim, Perak	No
24	Johor Bahru	Blue Sea; Green Land	Kabilan A/L Raja Shanmugapriya A/P Gunaseelan Jaysrina A/P Mahalingamoorthy Mathana Ruban A/L Ragunathan Darvinraj A/L Ravi	SMK Sultan Ismail SMK Mohd Khalid SMK Sultan Ismail SMK Sultan Ismail SMK Sultan Ismail	Yes
25	Johor Bahru	Project G	Pravena A/P Nantha Balan Thinesh A/L Nantha Balan Mohammad Basharullah Khan Bin Jafarulla Khan	SMK Mohd Khalid	Yes
26	Johor Bahru	Epsilon	Megannath Jeganathan Sajeeth Revindran Nekessh Arumugam Keiswini Latchamuna Chobnaa Kanaseelanayagam	SMK Sultan Ismail	No
27	Johor Bahru	Harimau Malaya	Jopesh Raj A/L Daniel Narmatha A/P Yogeswaran Tamilvananan A/L Ramiah Kahvia Raj A/L Moganadas	SMC	No

YIC 2014 PARTICIPANTS DETAILS

No	State	Team	Name	School	Video Log
28	Johor Bahru	Endeavour	Siti Maryam Binti Rosman Nur Syafinaz Binti Sapiei Sharifah Nur Asilah Binti Syed Omar Nur Salsabila Syuhaiba Binti Mohd Rosdi	Sekolah Tun Fatimah, Johor Bahru	No
29	Johor Bahru	Future Viewers	Pavithran A/L Vasutevan Vignes A/L Saravanan Gursharanjit Singh A/L Krishan Singh Yasootharan A/L Ganason	SMC	No
30	Penang	Intelligent Recyclers (I-BIN)	Patrick Tan Peng Jun Lee Sherman Ng Yit Tyn Daniel Tan Wei Ian Lee Ming Zhou	SMK Chung Ling Butterworth	No
31	Penang	Young Inventors	S. Roshanjeev Ram A/L Sanjeeviramah Anban Ashlan Raj A/L Paul Raj Wong Yong Jie	SMK Dato Onn	Yes
32	Penang	Green Inventors	Pavitra Vadivelu Rajalechumi Gunaseelan Siti Humaira Safina Binti Saiful Adli	SMK Dato Onn	No
33	Penang	Cannibal Cleaner	Soo Yih Ying Chuang Huei Herng Wan Zhi Kai Justin Lim Theng Hong	Chung Ling Hing School	No
34	Penang	Future Inventors	Shanggavee A/P Veloo Syazana Binti Jaleel Prasad A/L Nadarajan Rishi Arran A/L Suppramaniam Priyangka A/P Selvakumaran	SMK Dato Onn	Yes
35	Sarawak	Quicksilver	Tan Poh Joo Natalie Kong Zhia Yi Natalie Ngu Jazmin	SM Lodge, Kuching	No
36	Kelantan	Farisan	Nur Syazana Nasuha Bt Mohd Yusof Intan Suraya Bt Rozlisham Brendon Vitalis Polychristyivy Pariseh Muhammad Shakir Ashraf Bin Shaidi	SM Sains Tengku Muhammad Faris Petra	No

YIC 2014 PARTICIPANTS DETAILS

No	State	Team	Name	School	Video Log
37	Pahang	MRSMTAR1	Ahmad Amirul Aqhar B Suhaimi Ahmad Hassan Farhan B Rohaizi Ahmad Ikmal B Makhtar Nik Zaman Faisal B Zakimi Na Rahim Jaymond Rajvarma	MRSM Tun Abdul Razak	Yes
38	Pahang	MRSMTAR9	Intan Nurliana bt Mohd Bazli Khairul Munir b Mohamad Nur Anis bt Abdul Razak Nur Fatin Syafiqah bt Mohd Zamri Mohamad Shafiq Azlan b Abdullah	MRSM Tun Abdul Razak	Yes
39	Pahang	MRSMTAR11	Mohd Aidil Amin B Mohd Nasir Mohd Faiz B Ismail Nik Zur Qarnaini B Mohammad Muhammad Nazreen Azraai B Mohd Nazri Thinesh A/L Saravanan	MRSM Tun Abdul Razak	Yes
40	Pahang	Einstein Genius Megatron / The Impetus	Mohamad Afiq Aiman Bin Dzulkefli Rifqah Dhamirah Binti Mohd Azami Ummul Athirah Fathihah Binti Mohd Idris Izlan Ismail	MRSM Muadzam shah	Yes
41	Pahang	The Trigger Shimmer	Ummi Hanis Bt Hasni Nurul Irdhina Bt Hishamudin Aisyah Nadhirah Binti Ismail Intan Aqilah Bt Ismail Nur Najwa Natasya Bt Muhamad Nasri	MRSM TGS	No
42	Sabah	The Nature Republic	Muhd Khairul Azman Bin Bacho Oween Ordine Fatin Arisa Binti Rosalam@Roslee	SM Sains Sabah, Kota Kinabalu	No

YIC 2014 PARTICIPANTS DETAILS

No	State	Team	Name	School	Video Log
43	Sabah	Golden Breeze	Abdul Haqeem Bin Adong Syamil Haziq Bin Sazally Nur Alya Hannani Binti Roslan Nur Syazana Suhaila Binti Ladin	SM Sains Sabah, Kota Kinabalu	No
44	Sabah	The Innovators	Nicolee Poinggis Thormond Elwood Primus Owen Delowell Jamil Inaldo Joeirin Malindoi Saimin Terence John	SMK Sungai Damit, Tamparuli	No
45	W.P Labuan	Labuan International School	Kelvin Kok Mun Leong Farhana Bt. Sulaiman Wan Nur Alifah liyana Bt Wan Abdul Rahim Muhd Hilmi b. Arman	Labuan International School	Yes
46	Sarawak	White Penguin	Justin Toh Kai Chern Bryan Cheong Kien Howe Darren Wong Kee Onn Pang Xiu Wen Isabel Lea Chew Chun Yen	SM Lodge, Kuching	Yes
47	Sarawak	Pitch Black	Phoebe Tan Pei Yue Jasmine Chiam Wan Ern Emily Jane Yin Gumal Janice Wang Xin Jie	SM Lodge, Kuching	No
48	Sarawak	C2D	Isaac Trinstern Ng Jason Ting Siong Kai Melvin Ak Edward Tuah	SM Lodge, Kuching	No
49	Sarawak	Inspiration	Winna Chong Kingston Tan Kia Wee Torrance Chen Yun Chien Joanne Law Ru Yan Hu Hui Hui	SM Lodge, Kuching	Yes

5.2 Event Day Summary

The YIC 2014 started on the 20th September 2014 at 7am with the arrival and registration of the participants. A total of 49 teams comprising 211 students and over 60 mentors arrived on time to start preparing for the event. After their breakfast, the participants were allowed to setup their booth and models.

At 9am there was a short opening ceremony. Then the floor was officially handed over to the judging team. The inventions were judged by teams of 2 from a total of about 28 judges made up of university lecturers, engineers, environment consultants, intellectual property specialist, etc.

During the Judging process, the parents and mentors were ushered to attend the YIC 2014 Seminar which was held in Institute of Diplomacy and Foreign Relations from 10.00am to 12.30pm. The seminar was conducted by field experts to enrich the mentors with the following topics:

- **Future Job Seeker - Capacity and Competence: What does the future Job market require?**
  By Mr. Suresh Sakadivan, Product Owner, Job Street
  The presenter showed what are the attributed that is needed for future job seekers
- **"Garbage Dreams: Recycling for a Living in Cairo - My Personal Journey"**
  Mr. Adham El Sharkawy, Recipient of ASTI Innovation in Community Award 2014
  The presenter shared his journey in life which made him a Recycling Entrepreneur and community leader in his community in Egypt.
- **Creating New Economy through Science and Innovation**
  Ms.Hazami Habib, Chief Operating Officer, Academy of Sciences Malaysia
  Ms. Hazami shared the vision of Academy Sciences Malaysia to foster a thinking and Scientific community.

Following the judging process, the hall was opened for public viewing at 12.30pm and all the participants were presented with certificate of participation by our special guests in their respective booth. At around 2.30pm, our guest of honour YB Tuan P.Kamalanathan, Deputy Minister, Ministry of Education arrived and viewed the exhibits.

Mr. Drake Weisert, Information Officer of the Embassy of United State of America, Mr.Sathia Moorthy, Area Retail Manager of CIMB Bank, Mr.Vesuanathan Suppiah, Trustee of MyNadi Foundation, Dr Mohamed Yunus bin Mohamed Yasin, President of ASTI, Mej Dr Vikneswaran Munikanan, Treasurer of ASTI, Mr.Anandan Shanmugam, Project Director of YIC 2014, Mr. Adham El Sharkawy , Recipient of the ASTI - Innovation in Community Award, Mr.U.Thamotharan, President of Perinnbam were among the VIPs who also visited and officiated the event.

After viewing the exhibits the guest of honour YB Tuan P.Kamalanathan officiated the Prize Giving Ceremony. During the ceremony, ASTI proudly announced the First Winner of the ASTI - Innovation in Community Award (ASTI-ICA).

ASTI-ICA is designed to recognize the contribution of an individual, a group of people or an organization for doing projects within the community by utilizing Science and/or Technology and/or Innovative methods. In line with YIC 2014 theme - Green Inventions: Ideas on Sustainability, ASTI announced the winner of the ASTI-ICA 2014 to be Mr. Adham El Sharkawy, from Cairo, Egypt.

Mr. Adham is from the Zabaleen community in Cairo. The Zabaleen community is a community that lives in one of the garbage villages in Cairo. They live by collecting and recycling garbage in the city. Mr. Adham had a dream to bring modern technology and methods to better his community's livelihood. He has been working to make his dream a reality from the age of 14. Mr. Adham was presented with Certificate of Award by the Guest of Honour.

After that, the winning teams of Young Inventors Challenge 2014 and winning teams of YIC 2014 Video Log Competition were announced. A trophy, cash prize and certificates were presented to each winning team members. The champions also received a revolving YIC Challenge Trophy. Beside that, the 3 winning teams also received cash prize of RM 2000, RM 1500 and RM 1000 accordingly. The details of the Winning teams are as below:

Winning Teams of Young Inventors Challenge 2014 Grand Finale

CHAMPION

Team Name : White Penguin
Project Name : Environmental Friendly Pen
School Name : SM Lodge Kuching, Sarawak

1ST RUNNER UP

Team Name : Intelligent Recyclers
Project Name : I-Bin
School Name : SMJK Chung Ling Butterworth

2ND RUNNER UP

Team Name : Sky Salvador
Project Name : UV Schutz
School Name : Tunku Kursiah College, Negeri Sembilan

5.3 Video Log Competition

The participating teams were requested to come up with a 5 minute video documenting their inventing journey, but it was not made compulsory. 16 teams participated in this competition and submitted their videos on time.

A production team from ASTRO judged these videos and the best three videos were selected to be given prizes of RM 1000 for the Champion, RM 700 for the 1st Runner-Up and RM 500 for the 2nd Runner-Up. The details of the Winning teams are as below:-

Winning Teams of YIC 2014 Video Log Competition

CHAMPION
Team Name : MRSMTAR1
Project Name : Palm Oil Leaves*(Elaieis Guineensis Eco Paper)*
School Name : MRSM Tun Abdul Razak, Pahang

1ST RUNNER UP
Team Name : The Salvagers
Project Name : Automated Waste Sorter Powered by Solar Power
School Name : SMK Datuk Haji Abdul Samad, Negeri Sembilan

2ND RUNNER UP
Team Name : MRSMTAR9
Project Name : Aloe-Eco Tissue
School Name : MRSM Tun Abdul Razak, Pahang

5.4 Public Relations

In the beginning of 2014, the Young Inventors Challenge 2014 Competition was promoted by sending out flyers over to 1000 schools in Malaysia. Dr. Mohamed Yunus Yasin who attended BFM interview to promote the programme whereas the Vizhutugal Interview was attended by Mr.Anandan Shanmugam and Dr.Mohamed Yunus Yasin.

Nearing to the Grand Finale date, ASTRO Vaanavil played an key role in promoting YIC by airing capsules and promotional videos designed by ASTI R&D Department and produced by ASTRO Vaanavil for a month prior to the event.

Besides that, on the 17 September 2014, Dr. Mohamed Yunus Yasin and Dr. Ewe Chun Te attended Traxx.FM interview to promote the Grand Finale to public.

During the YIC 2014 Grand Finale, ASTRO 360 covered the full event and it was broadcast on ASTRO Vaanavil a week after. All the winning teams, parents, mentors, and organizers were also interviewed by ASTRO 360.

Mr Adham the first winner of ASTI-ICA award was also featured in an interview at the Star daily paper.

5.5 Students' Assessment Evaluation

A survey was conducted during the event targeting all the participants. An analysis of the survey feedback from the 205 members of the 49 participating teams is shown below:

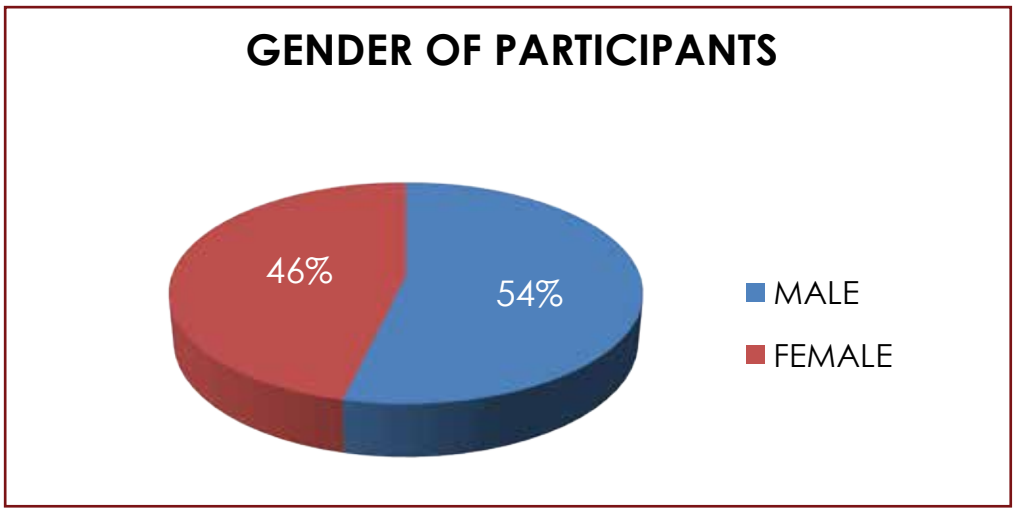


Figure 7: *Gender of Participants*

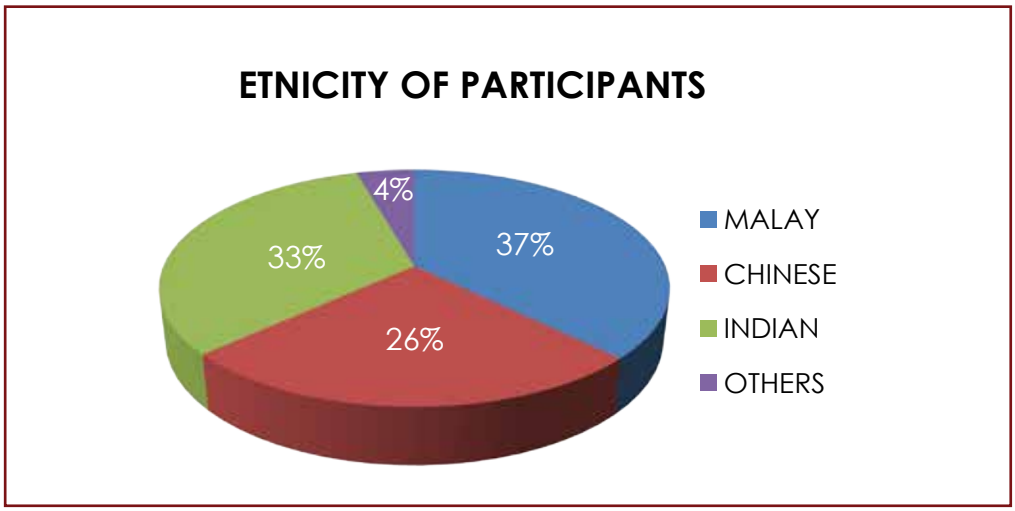


Figure 8: *Ethnicity of Participants*

Based on figure 7 and 8 above, 54% of the participants were male and the balance of 94 participants were female. Ethnicity of the participants shows that it was randomly distributed as there were Malay, Chinese and Indian. The other category included participants from Eurasian, Filipino, Iranian, Kadazan, Dusan and more.

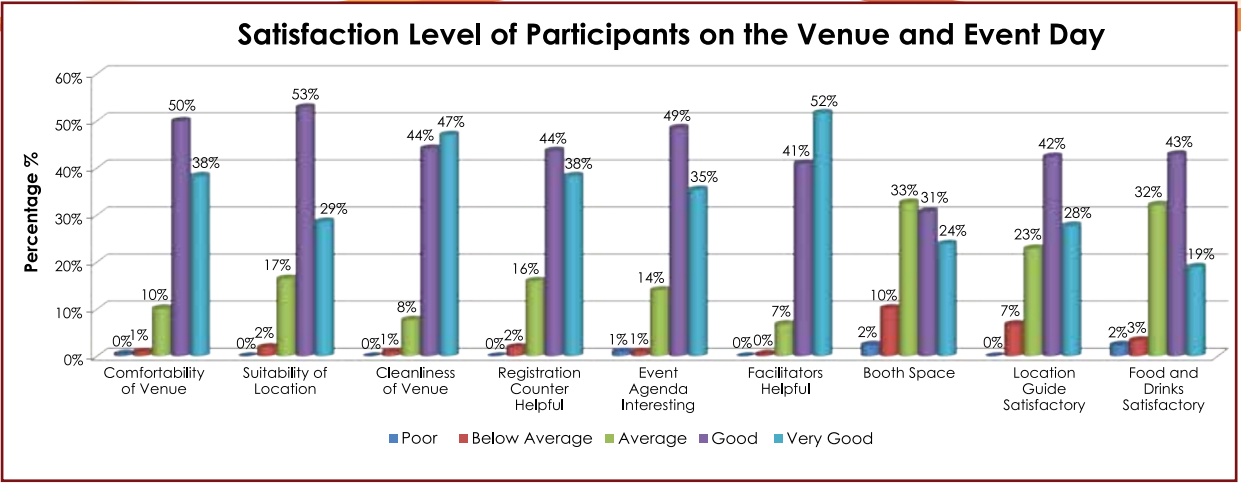


Figure 9: *Satisfaction Level of Participants on the Venue and Event Day*

Based on Figure 9, most of the participants were very satisfied with the venue and the surroundings as 88% of them rated good and very good. 84 % of the participants say the event agenda was very interesting and the facilitators were very helpful in guiding them. Few of the participants were not very satisfied with the booth spacing as it was small and narrow. They have requested for bigger booth for next year.

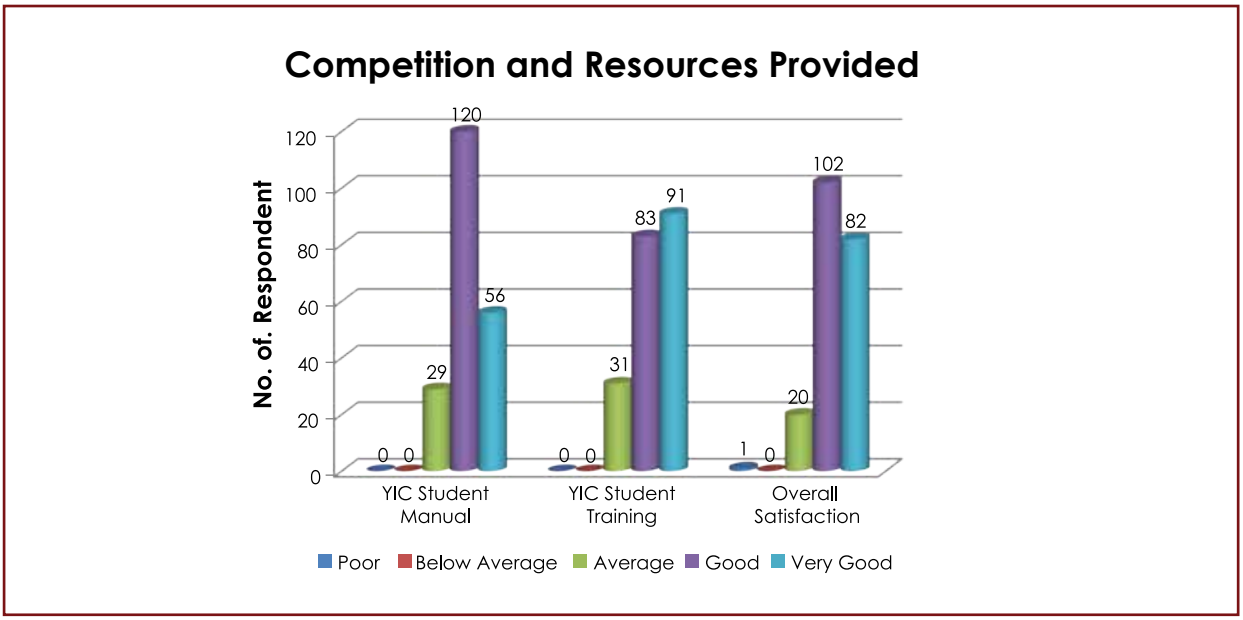


Figure 10: *Participants Opinion on Students Manual, Student Workshop and Overall Event*

Figure 10, shows the participants' opinions on the Students Manual and Students Training and Overall Event. The participants were emailed with Students Manual after their teams were selected to participate in the YIC competition. 176 from the 205 participants rated as good or very good when asked whether the manual was helpful to them to come up with their invention. The participants also showed a high level of satisfaction with the Students Training. 90% of the participants were very satisfied with overall event as they rated good and very good.

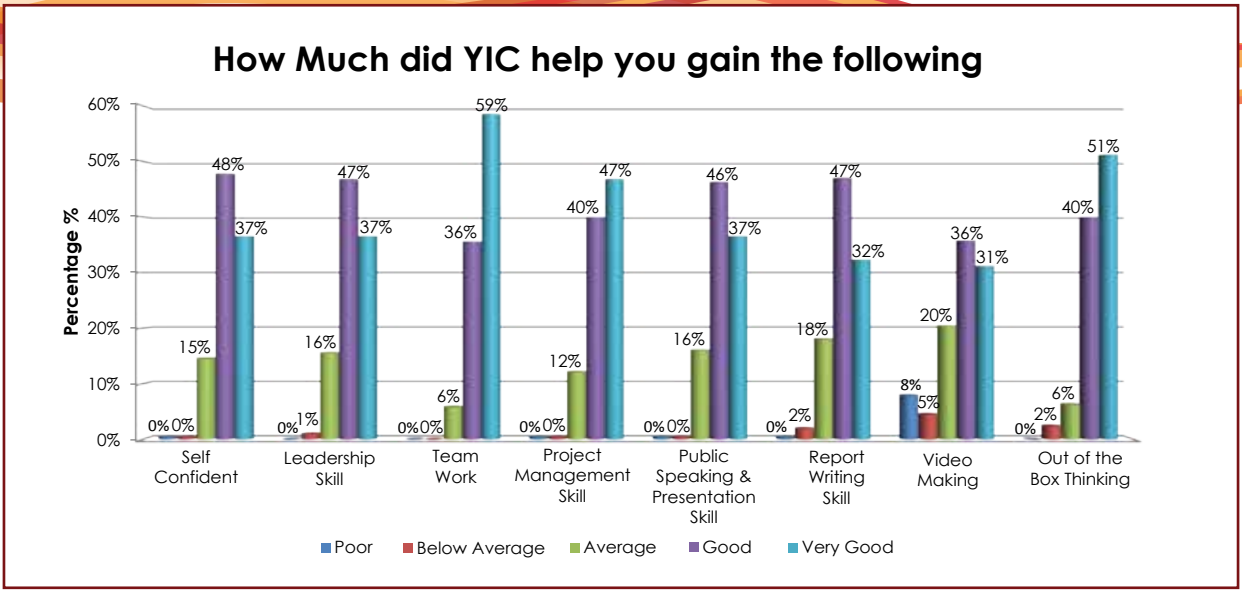


Figure 11: *Participants' Opinions on How Much YIC Help Them to Gain Certain Qualities*

Figure 11 shows how much the participants gained in terms of Self Confidence, Leadership Skills, Team Work, Project Management Skills, Public Speaking & Presentation Skills, Report Writing Skills, Video Making Skills, Creative & Out of the Box Thinking and Problem Solving Skills by participating in the YIC competition. From 85% to 95% of the participants rated that they had gained many of the said skills after participating in the competition.

Moreover, all the participants mentioned that they would like to participate in YIC 2015 and all of them have requested for YIC 2015 Training session.

5.6 Mentors' Assessment Evaluation

A survey was conducted during the event targeting all the Mentors. An analysis of the survey feedback from the 36 mentors is shown below:

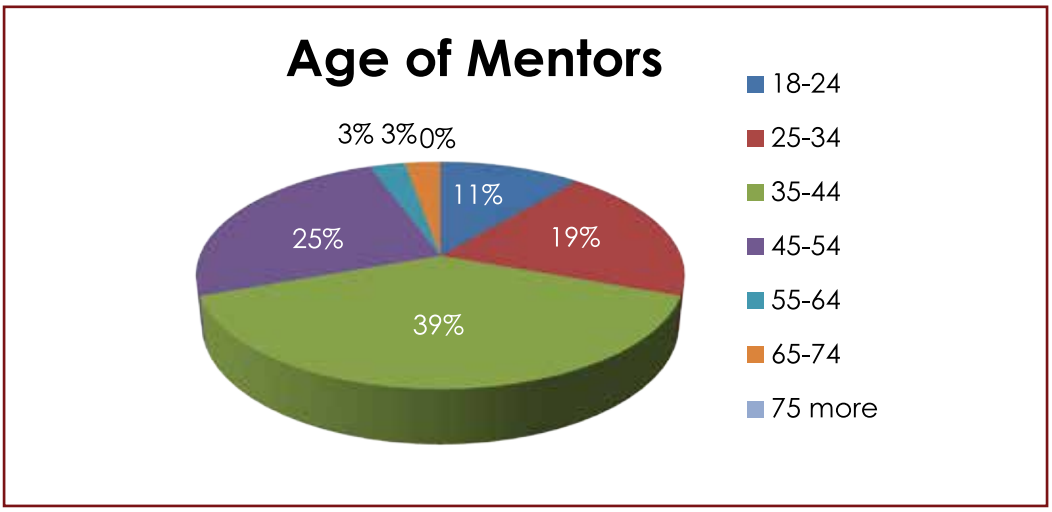


Figure 12: *Age of Mentors*

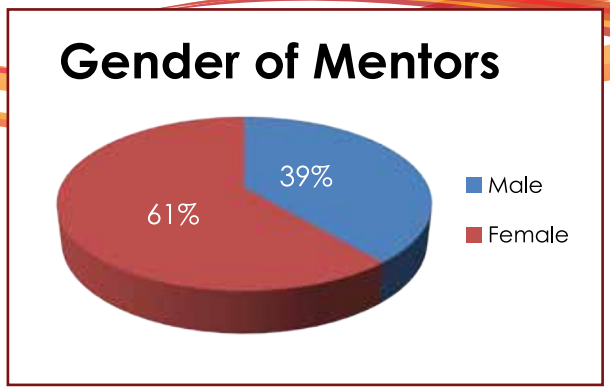


Figure 13: *Gender of Mentors*

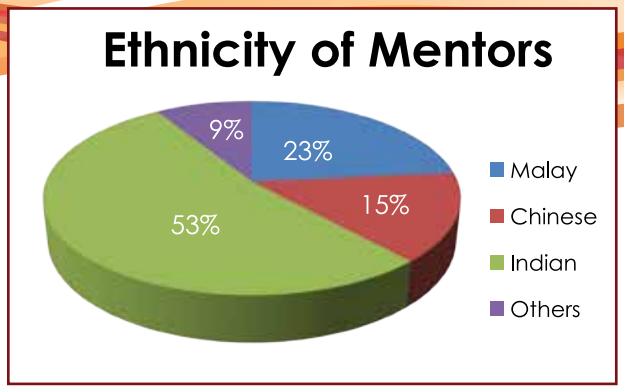


Figure 14: *Ethnicity of Mentors*

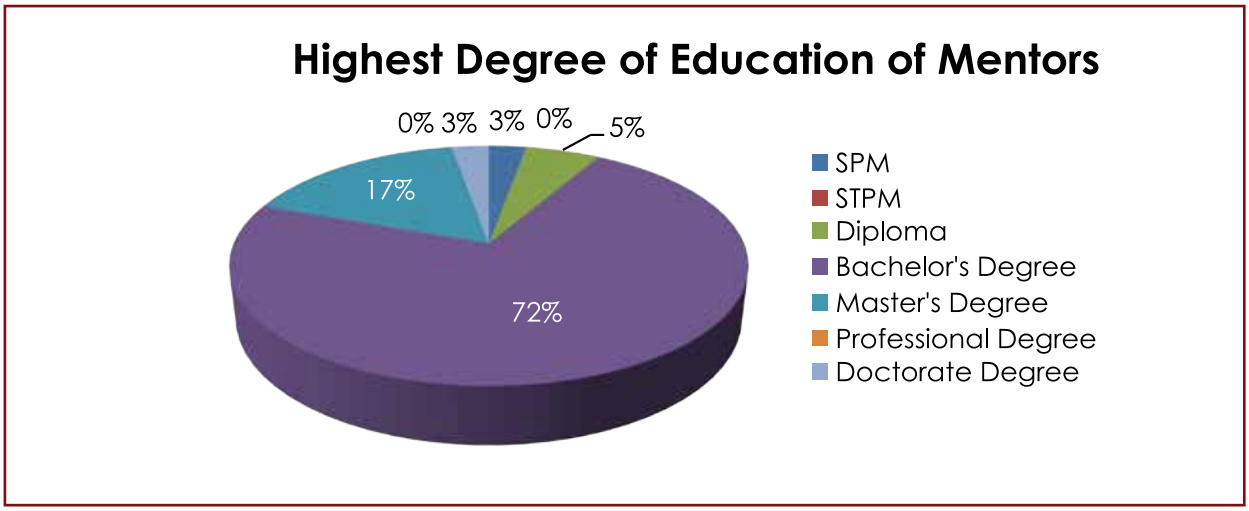


Figure 15: *Highest Degree of Education of Mentors*

Figure 12, 13, 14 and 15 above shows the demography distribution of the mentors. Majority of the mentors are in the age of 35 to 44 and 61 % of them were female. Ethnicity of the mentors was randomly distributed as there were Malays, Chinese, Indian and also from other religion. 72% of the mentors have bachelor's degree as their highest degree of education.

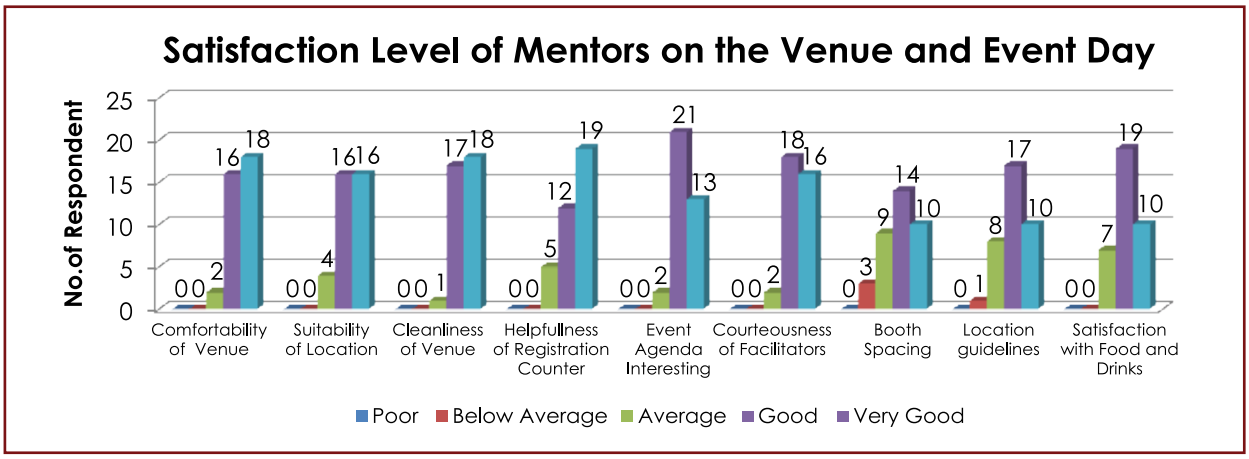


Figure 16: *Satisfaction Level of Mentors on the Venue and Event Day*

Figure 16 shows the satisfaction level of mentors on the venue and event day. Majority of the mentors rated good and very good when they were asked about comfortability, suitability & cleanliness of venue, helpfulness of registration counter, and courteousness of facilitators. The mentors also feel that the event agenda was very interesting. Few of the mentors were not satisfied with the booth spacing as it was very small and the spacing in between booths was very narrow.

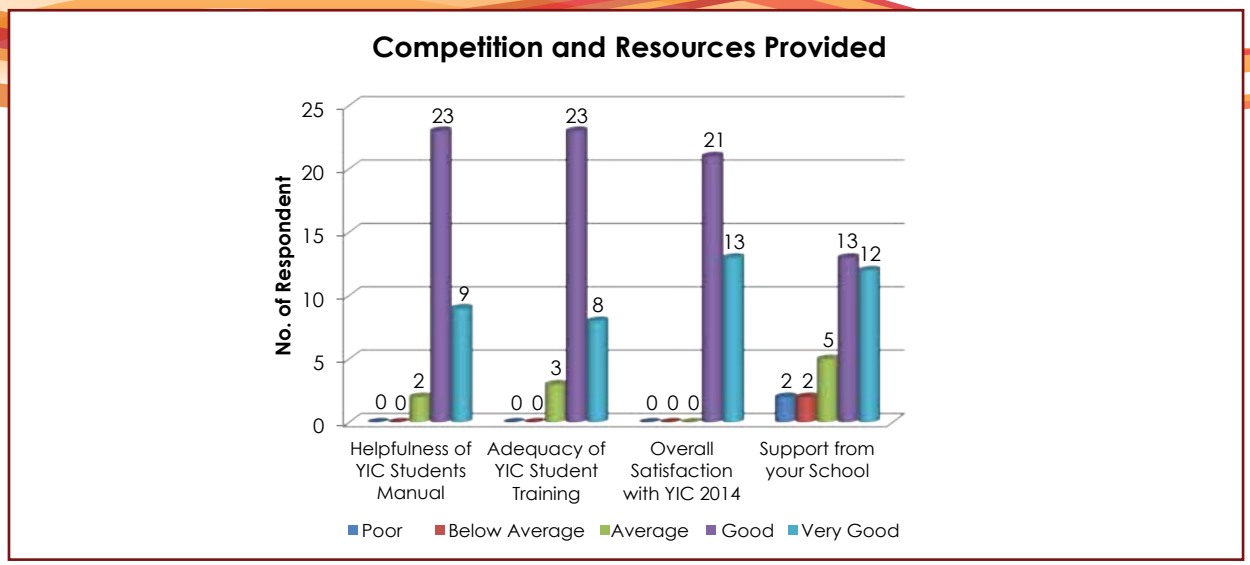


Figure 17: *Satisfaction Level of Mentors on the Competition and Resources Provided*

Based on Figure 17, it can be concluded that the mentors were very satisfied with YIC Students Manual, YIC Students Training and Overall event as most of them rated good and very good when they were surveyed on this.

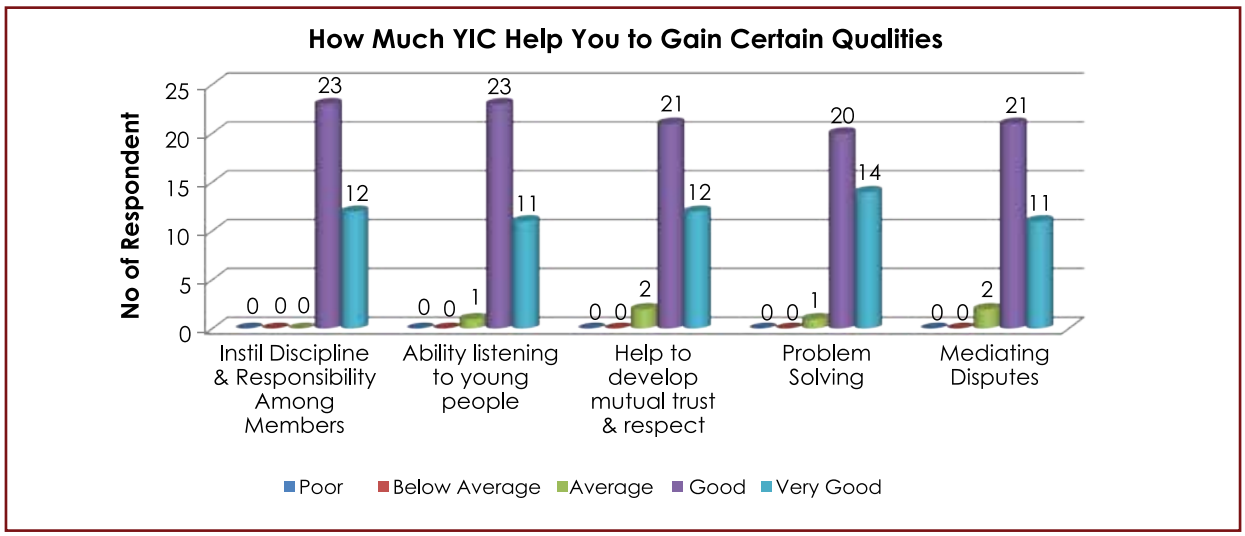


Figure 18: *Mentors' Opinions on How Much YIC Help Them to Gain Certain Qualities*

Figure 18 shows, mentors opinions on how much YIC help them to gain certain qualities such as mediating disputes, problem solving, help to develop mutual trust and respect among members, ability listening to young people and instil discipline & responsibility among members. Almost more then 30 mentors have rated good and very good for all the above mentioned qualities which means they have gained this qualities by participating in Young Inventors Challenge.

Beside that all the mentors agreed and would like to participate in the YIC 2015 and they also have requested for YIC mentor training to be held concurrently with YIC Students Training.

5.7 Visitors' Assessment Evaluation

A survey was conducted during the event targeting all the Visitors. An analysis of the survey feedback from the 20 visitors is shown below:

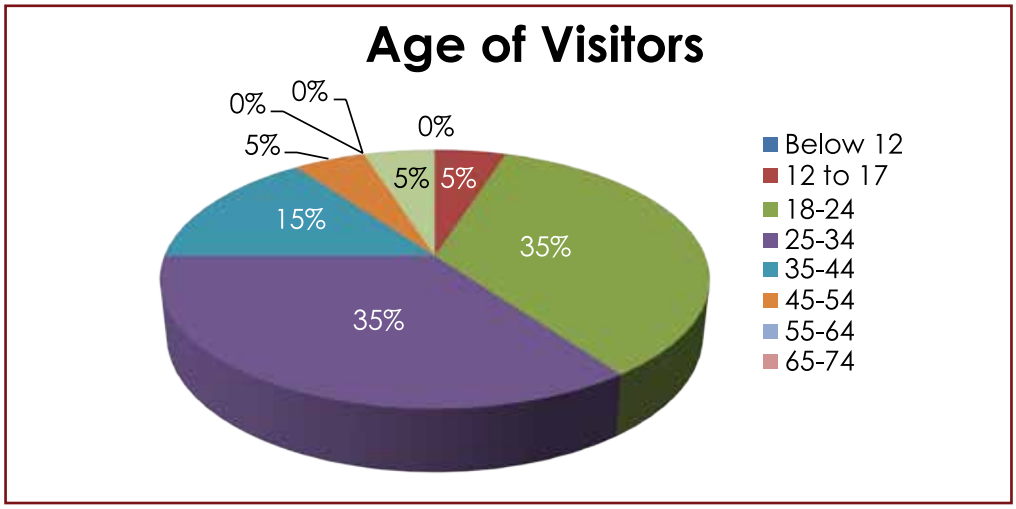


Figure 19: *Age of Visitors*

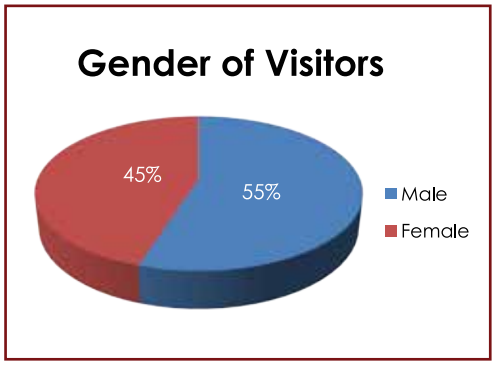


Figure 20: *Gender of Visitors*

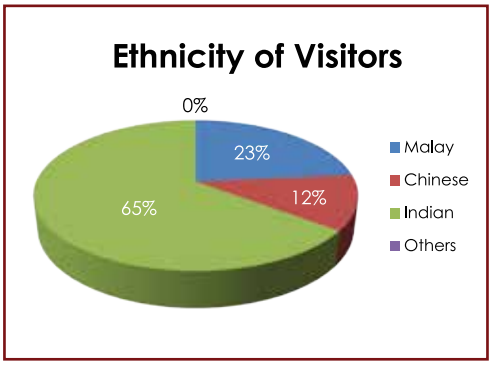


Figure 21: *Ethnicity of Visitors*

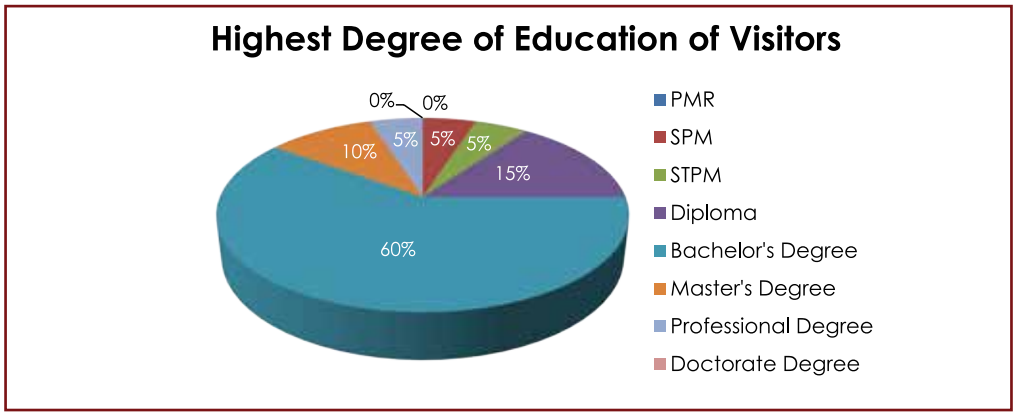


Figure 22: *Highest Degree of Education of Visitors*

Figure 20, 21, 22 and 23 above shows the demography distribution of the Visitors. 70% of the visitors are in the age of 18 to 34 and there were 55% male and 45 % female visitors surveyed. 60% of the visitors have bachelor's degree as their highest degree of education.

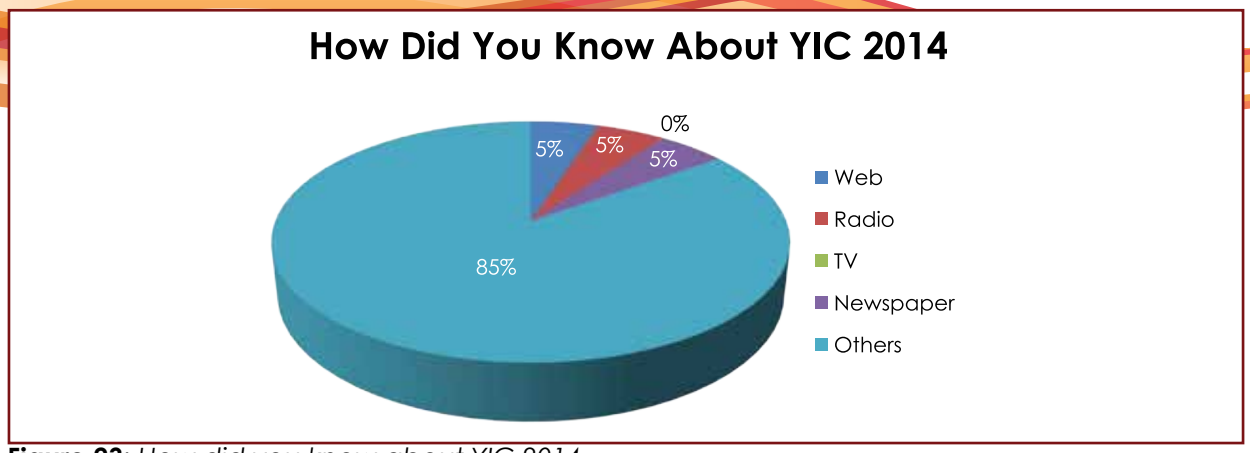


Figure 23: *How did you know about YIC 2014*

Figure 23 shows respond of the visitors on how they know about YIC 2014. 85% of the visitors respond falls into others categories which mean they know about YIC 2014 via their friends, the participants, the schools and word of mouth. Majority of the visitors who was involved in the survey were relatives and parents of the participants.

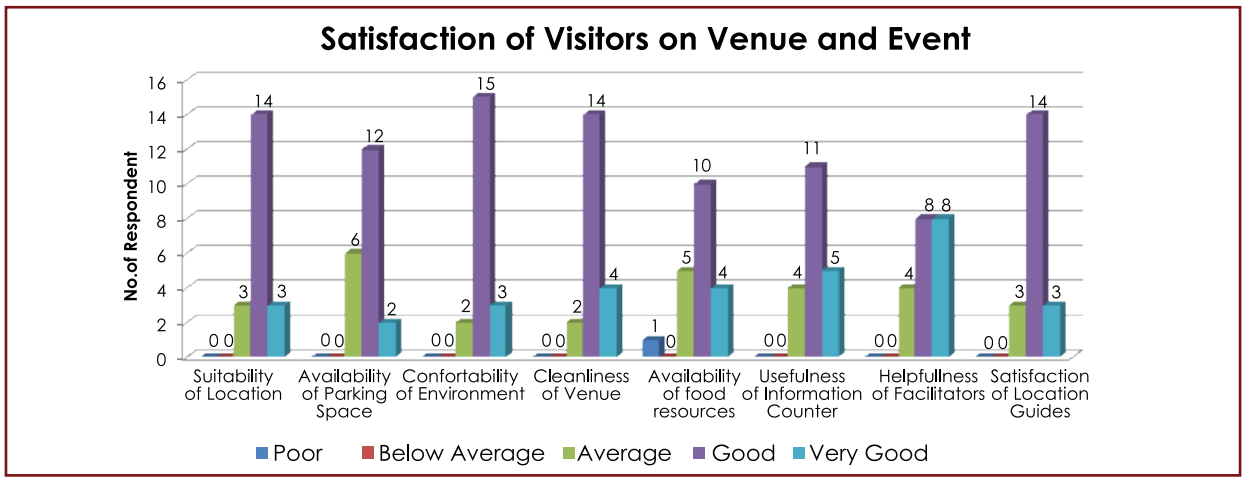
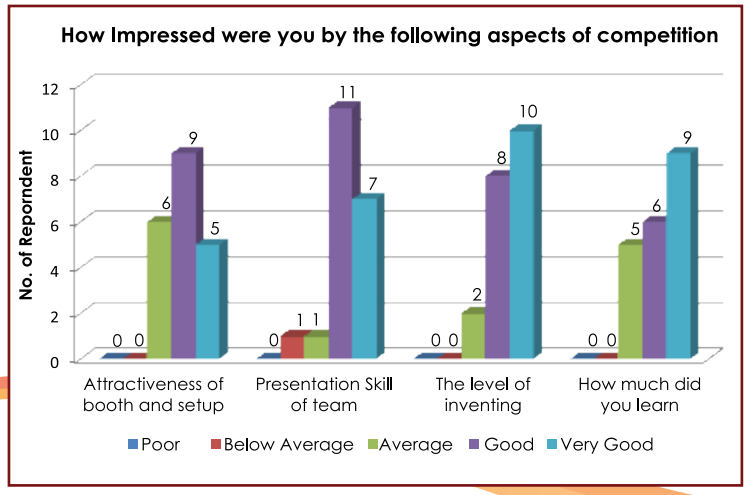


Figure 24: *Satisfaction of Visitors on Venue and Event*

Figure 24 shows the visitors response when they were surveyed about their satisfaction level on the Venue and Event. Most of the visitors responded good and very good when they were asked about suitability of location, comfortability of environment, cleanliness of venue, availability of parking space and food resources, usefulness of information counter, helpfulness of facilitators and lastly satisfaction of location guide.



The figure 25 above shows the visitors impression on attractiveness of booth & setup, presentation skill of team and level of inventing. More than 14 visitors rated good and very good for attractiveness of booth & setup, presentation skill of team and level of inventing. Besides that most of the visitors mentioned that they have learned and acquired knowledge by visiting Young Inventors Challenge 2014.

Figure 25: *How impressed were you by the following aspects of competition*

6 Judging

6.1 Judges Selection

An email invitation was send to all the judges who have participated in Young Inventors Challenge 2013 and National Level Science Fair for Young Children 2013. The respond was overwhelming as a total of 40 judges agreed to involve and contribute as a Judge for Young Inventors Challenge 2014 Grand Finale.

6.2 Judges Training

A Judges Training was conducted on 6th September 2014, before the grand finale, and a total of 25 judges attended the training session. Upon their arrival, the judges were given a small introduction session about ASTI and YIC by Mr. Anandan Shanmugam followed by a presentation and discussion on Judging Score Sheet by Ms. Poovarasi Balan. This session was conducted to develop a common understanding amongst all the judges as to what constitutes an invention judging score sheet, so that judging would be carried out uniformly.

Dr.Ewe Chun Te then conducted an exercise on report marking and all the 49 reports were marked by all the judges who attended the training. The judging panel also brainstormed on the sets of questions to ask to the participants. Next, Ms. Vanitha Vasu briefed the judges on the event logistics. The training was concluded with a Q & A session prior to lunch.

6.3 Event Day Judging

In the morning, judges arrived at 7:30 for briefing at 8am. About 32 judges confirmed but only 28 turn up. However, exactly 28 judges were needed to have a proper judging process during the event. The judges divided into 7 judging groups in total, each judge group were made up of 2 judges and 2 cross-judges.

Briefing was given to the judges until 8:45am. The judges were reminded not to give suggestions to project teams as it will influence the next cross judging process. After the opening ceremony, the judging process officially started and the judges were visiting the invention booths and gave point for the invention and the inventive process. The main judging process started at 9:30 and ended at 11:30 as planned.

Teams were marked based on the Judging Score Sheet (JSS). The time keeping was centralised by the announcement from the EMCEE. Ushers guided the judges at each time interval. The moderating Panel of Judges (the Chief Judge 1 & 2, and an independent judge) visited all the projects unofficially.

Judges then went to the judge's room and the judging groups agreed on a score (including the report marks) for each project team. At 12:45pm, the scores were tabulated and ranked. The top 10 projects were then moderated by the Panel of Judges. At 1pm, the special Panel visited the top 10 projects and verified the top 3 prize winning teams by 2pm.

7 Volunteer Management

ASTI strongly believes in developing its volunteers to be the future leaders of society. During the Young Inventors Challenge 2014, ASTI formed an Event Committee comprising volunteers from various fields. The volunteers headed departments within the YIC Event Committee as shown in the table 5 below:

No	Department	Name
1	Event Committee Head	Mr. Jegatheswaran Panderengen
2	Assistant Head	Ms. Vanitha Vasu
3	Registration and Accommodation	Ms. Umahsankariah Muthunaikar
4	Hall Management	Mr. Sivaraj Arumugam
5	Food and Beverage	Mr. Tilagan Narayanasamy
6	Transportation Department	Mr. Jayasilan Kandasamy
7	Crowd Management	Mr. Jaganath Rajaendran
8	Judging	Ms. Shubashini Mathyalingam
9	Stage, Prizes and Ushering	Ms. Archanah Buthiyappan
10	Survey	Ms. Kalaimathi Adimulam
11	ASTI Booth	Ms. Gunasundari
12	Media (Photo, Video, Music)	Mr. Sathiskumar
13	Press Management	Ms. Thinaheswary Gunashakaran

Table 5: Event Committee of YIC 2014

Three meetings were held before the final event to discuss on the implementation process of the event day. Each Head of Department (HOD) was given the task of coming up with their job scope under the supervision of the YIC Working Group Committee. During the event day another 30 facilitators attended the event to assist the HODs. All the facilitators were very helpful in making the event successful.

8 Funding And Budget

8.1 Funding

Young Inventors Challenge 2014 was funded by the Embassy of the United States of America, CIMB Foundation-CIMB Community Link, Malaysian Communication & Multimedia Commission (MCMC), National Land Finance Co Operative Society Ltd (NLFCS), MyNadi Foundation, and the Hay Group. They represent as the main sponsors for this prestigious event. In addition, a few selected funders were approached and some funding were received from them.

These funding organizations and individual funders are the backbone of the achievement and success of the event. The funds pledged and disbursed by our major sponsors and individual funders are shown in the table 6 below:

No	Sponsors	Grant Allocation (RM)	Pending Receivable (RM)
1	Embassy of the United States of America	96,000.00	19,140.00
2	CIMB Foundation-CIMB Community Link	50,275.90	50,275.90
3	Malaysian Communication & Multimedia Commission (MCMC)	15,000.00	-
4	National Land Finance Co Operative Society Ltd	10,000.00	-
5	MyNadi Foundation	10,000.00	-
6	Hay Group	10,000.00	-
7	Tun Dr. Siti Hasmah Mohd. Ali	1,000.00	-
8	Tun Dr. Mahathir Bin Mohamad	1000.00	-
	Total	**183,275.90**	**69,415.90**

Table 6: YIC 2014 Funding

NOTE: *Due to funding constraint, we successfully reduced the expenses. For example, seed funding, accommodation etc. was reduced to complete the project with great success.*

8.2 Account Statement of YIC 2014

Income Statement for the Period ended 30 October 2014

INCOME	2014 (RM)
B/F	7775.00
Embassy of the United States of America	76,860.00
Malaysian Communication & Multimedia Commission (MCMC)	15,000.00
National Land Finance Co Operative Society Ltd	10,000.00
MyNadi Foundation	10,000.00
Hay Group	10,000.00
Tun Dr. Siti Hasmah Mohd. Ali	1,000.00
Tun Dr. Mahathir Bin Mohamad	1,000.00
Gloria Booth	350.00
T-Shirt Selling	105.00
TOTAL INCOME	**132,090.00**
Less:expenditure	
YIC Manual (Student and Mentor)	250.00
Judges Training	500.00
Students Workshop	26,255.40
Seed Funding for Participating Teams	1,800.00
Venue	20,439.00
Exhibition Booth	12,650.00
Prizes & Souvenirs	20,565.00
Insurance	1,716.00
Accommodation	1,880.00
Meal	15,050.00
Audio/Visual Rental	1,600.00
Printing and Promotion	5,370.00
Event Management	5600.00
Project Manager Salary	33,188.75
Project Manager Benefit	5,066.80
Internship Allowance	3,600.00
Secretariat Utilities	31,668.22
TOTAL EXPENDITURE	**187,199.17**
Excess of (Expenditure)/Income (YIC Debt to ASTI)	***(55,109.17)***

9 Achievement of The Project

YIC has seen a phenomenal growth in the last 2 year of operation. The growth of YIC as show in the table 7 and figure 26 below:

State	YIC 2013				YIC 2014			
	Applications Received	Proposals Received	Shortlisted Teams	Final Participants	Applications Received	Proposals Received	Shortlisted Teams	Final Participants
Kedah	0	0	0	0	4	4	0	0
Penang	3	3	3	2	13	11	7	5
Perak	1	0	0	0	2	3	1	1
Selangor	4	3	3	3	40	32	21	19
Negeri Sembilan	1	1	1	1	2	2	2	2
Melaka	0	0	0	0	1	1	0	0
Johor	8	7	7	6	38	23	6	6
Pahang	1	0	0	0	29	16	5	5
Kelantan	0	0	0	0	2	2	2	1
W.P.Putrajaya	0	0	0	0	2	2	1	1
W.P.Labuan	0	0	0	0	4	1	1	1
Sabah	0	0	0	0	6	4	3	3
Sarawak	0	0	0	0	13	10	7	5
TOTAL	**18**	**14**	**14**	**12**	**156**	**111**	**56**	**49**

Table 7: Phenomenal growth of YIC

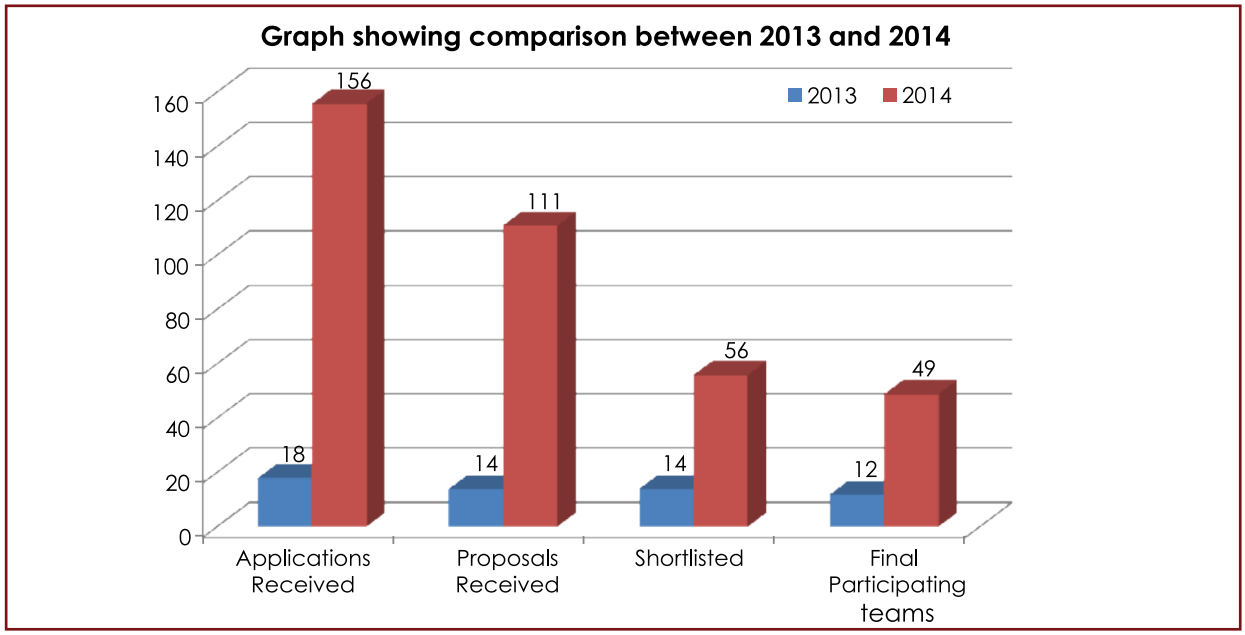


Figure 26: *Comparison between YIC 2013 and YIC 2014*

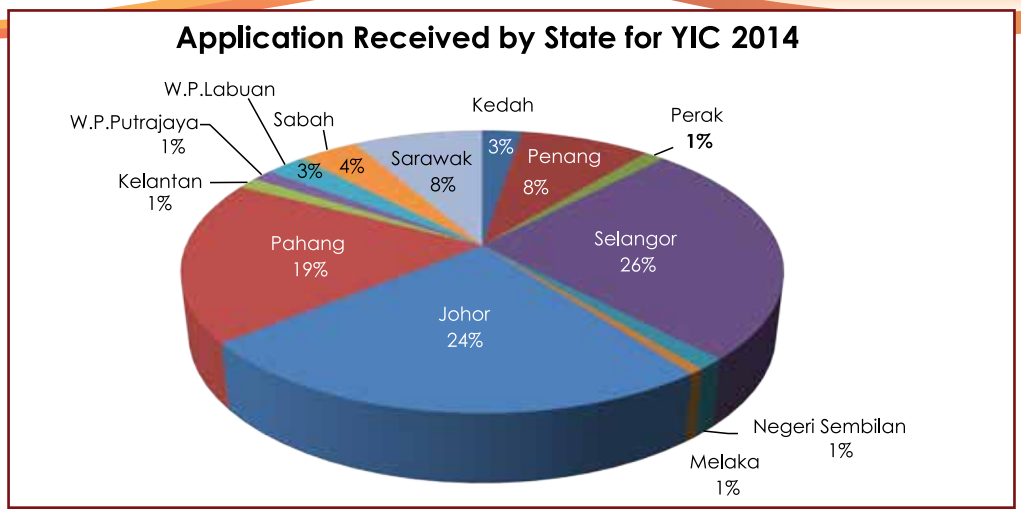


Figure 27: *Application received by State for YIC 2014*

Besides that, the 2nd Place Winner of Young Inventors Challenge 2013 has participated in International Invention, Innovation and Technology Exhibition (ITEX) and has won Silver Medal in both Malaysia Young Inventors Competition (MYIC) and Asian Young Inventors Exhibition (AYIE).

10 Recommendations for The Future

After completion of each milestones (i.e. the student/mentor training and judges training/process, Event committee formation and completion and final overall), a post mortem was conducted and below are their recommendations.

10.1 Students Training Recommendations

- Expand the duration of time for the student training
- Expand the duration for team building activities
- Show more videos relevant gadgets
- More display of last year YIC Invention
- Do training session first before the proposal writing process

10.2 Judges Recommendations

- The Judging Score Sheet need to be more descriptive on each category with detailed breakdown on expectations.
- More judges need to attend the training before the event. Obviously, more judges needed.
- The expected standards of the projects need to be clearly set and communicated to judges. There is variation in judge's perspective on this.
- This is the first year we created a report template, which is good. The report structure can be further improved with specific instructions for each category/headings. Students generally do not know how to write the novelty section. They wrote advantage and disadvantage instead. The section on results/observation need to be added to the report.
- More coaching/training to be provided to the students/mentors during the product/process development stage.

10.3 YIC Event Committee Swot Analysis

Strength

- Experienced team
- Manageable number of Head of Departments
- Ease of communication
- Venue was very convenient and near to KL City
- The booked accommodation was nearer to the venue and easy to reach on time
- Certificate presentation in booth was good idea and saves times
- Able to finish prize giving ceremony in 1 hour
- Department work flow accomplished as planned
- Students & Teachers satisfied with service provided

Weakness

- Booth size and spacing in between booths very narrow
- Short preparation time
- Lack of rehearsal
- Lack of facilitators for transport department
- Limited parking space
- Space issue in VIP room upon dining table setup
- Poor food taste

Threat

- Demands from participant
- Space constraint

Opportunity

- Adrenaline rush for fast idea and solution
- Personal capability outshining
- People networking

10.4 YIC Working Group Committee Swot Analysis and Recommendations

Strength

- Good Interest in participation
- Well balanced idea inputs of the WGC
- Participation from all over Malaysia including Sabah and Sarawak
- Participation from two orang asli team
- Wide spread of participants
- Well organized programme
- Regular meeting and updates
- Highly qualified volunteers especially judges
- Teacher and teams are independent
- Efficient training team (done all over Malaysia)
- Selected grant to under resourced teams
- Centralized timekeeping for Judging

Weakness

- More teams from same school
- Not enough media coverage for pre event
- Confirm the date earlier and book the venue
- Quality of the initial proposals from participants was weak
- Teams that drop out issue(invention did not work, using other person invention)
- A lot of Plagiarism detected in the invention proposal (Copy & Paste)
- Students manual not read by all the participants
- Some of the invention was too simplistic
- Some poor mentoring by mentors

Threat

- Late commitment and payment from funders
- Cash flow problems
- Keeping the interest alive among the volunteers
- Getting teams under resource background
- Delayed in the process (WGC Formation, publicity, training)

Opportunity

- Look at main stream media partners
- Newspaper in Education (E.g. The Star)
- To tie up with government organizations to get the venue and support
- Road show to get more volunteers (targeted initiatives)
- Getting teams from under resource background
- To get variety background of judges
- Change the Theme and process
- Follow through the winning invention(patent, funding, marketing)

Recommendations

- Enhance plagiarism detector
- First training done with all the trainers in central
- Do the training before the participants are requested to send proposal
- Review prizes amount and number of winning teams
- One mentor per team
- Give prize to the mentor
- Have follow-up activity with the participants
- Look for industry partners
- Centralized timekeeping for Judging, can save manpower needed

11 Conclusion

Overall, YIC 2014 was a huge success. We managed to attract multiracial teams of various parts of Malaysia. Out of 111 received proposals, 56 were selected and 49 teams participated in the grand finale.

Students have the potential to invent and to innovate, given guidance and opportunity. We hope that YIC 2015 will attract more participants and encourage young mind to solve problems through inventions.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