

March 2010

FACT SHEET NATIONAL INFOCOMM COMPETITION

The National Infocomm Competition (NIC) is a year-long infocomm competition held annually that allows students to hone their skills and showcase their talent in infocomm. The NIC is a key part of IDA's infocomm talent seeding and attraction effort to inculcate interest in infocomm among students and nurture our talent at an early age.

Into its fifth year in 2010, students from secondary schools, junior colleges, Polytechnics and ITE will compete over 16 challenges. As with previous NICs, the students will compete in three circuits: (a) Secondary School, (b) Junior College (JC) and (c) Polytechnic / ITE. Points will be awarded to the top winners in each challenge. The school with the highest accumulated points will be the circuit champion. The NIC 2010 challenges are:

Challenge	Circuit	Organiser	Date
13 th National Olympiad in Informatics	Sec, JC	National University of Singapore	6 Mar 10
Splash Awards 2010	Sec, JC, Poly/ITE	Singapore Computer Society	25 May 10
X-Site	Sec, JC, Poly/ITE	Singapore Science Centre	25 Mar 10
Innovate IT'10	JC, Poly/ITE	Singapore Management University	24 Apr 10
Imagine Cup 2010: Software Design	Poly/ITE	Nanyang Technological University	26 May 10
Singapore Games Creation Competition	Sec	Nanyang Polytechnic	31 May 10
Java Jive 2010	Poly/ITE	Institute of Technical Education	25 Jun 10
ActionScript.Awards.V	Sec	Republic Polytechnic	25 Jun 10
code::XtremeApps:: 2010	Poly/ITE	Information Technology Standards Committee	23 Jul 10
Mobile Animation Challenge	Sec	Institute of Technical Education	2 Sep 10
26 th National Software Competition	Sec, JC	Singapore Polytechnic	18 Sep 10
Netriders 2010	Poly/ITE	Institute of Technical Education	1 Oct 10

ALICE-in-Action	Sec	Temasek Polytechnic	4 Nov 10
National StrITwise® Challenge & StrITcombat Competition 2010	Sec, Poly/ITE	Ngee Ann Polytechnic	13 Nov 10
Schools Digital Media Awards	Sec, JC	Ministry of Education	22 Nov 10
[i.code]	Sec	Nanyang Polytechnic	26 Nov 10

Schools may send their students to prepare for the competition by attending workshops and training conducted by the challenge organisers.

The NIC is brought to you by IDA, with the support of MOE, and is organised by Nanyang Technological University, National University of Singapore, Singapore Management University, Ngee Ann Polytechnic, Nanyang Polytechnic, Republic Polytechnic, Singapore Polytechnic, Temasek Polytechnic, Institute of Technical Education, Information Technology Standards Committee, Singapore Computer Society and Science Centre Singapore. The industry partners include Adobe, Microsoft, Cisco Systems and Sun Microsystems.

The NIC is part of the Student Outreach Programme under IDA's Infocomm Manpower Development Roadmap. This Roadmap is one of the foundational pillars of the iN2015 masterplan to drive Singapore's efforts to develop an infocomm-savvy workforce and globally competitive infocomm manpower to drive national economic competitiveness.

For more information, please visit infocommtalent.sg/nic and www.ida.gov.sg.

FOR MORE INFORMATION

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WINNERS AND PRIZES OF THE NATIONAL INFOCOMM COMPETITION 2009

In addition to infocomm-related prizes, cash and a trophy, the winners of each circuit will be provided a one-week knowledge acquisition trip to Silicon Valley, USA.

Secondary School Circuit

- 1st Raffles Institution
- 2nd Hwa Chong Institution
- 3rd Crescent Girls' School
- 4th Tanjong Katong Secondary School
- 5th Nan Hua High School

JC Circuit

- 1st Raffles Institution
- 2nd Hwa Chong Institution
- 3rd Dunman High School

Poly/ITE Circuit

- 1st Nanyang Polytechnic – School of Information Technology
- 2nd Temasek Polytechnic – School of Informatics & IT
- 3rd Ngee Ann Polytechnic – School of InfoComm Technology

Prizes are sponsored by M1, Nikon, Microsoft and Sapura.

Examples of Winning Entries in the National Infocomm Competition 2009

Singapore Games Creation Competition 2009

Gold Award – R Studios (Raffles Institution)

For the Singapore Games Creation Competition 2009, teams were required to develop a Flash based game on Facebook based on the theme of “Environment: Clean Living – Clean Air, Clean Water, Clean Energy”. The winning entry by Raffles Institution require players to protect fishes in “Fishy Lagoon” from harm by keeping the water in the lagoon clean. Players do this by removing pollutants from a river by fishing out rubbish, repairing damaged toxic pipes and activating filters to purify the water. The game becomes increasing frantic as rubbish is thrown into the lagoon at an increasing rate and the lagoon becomes polluted more quickly, mutating the fish in the lagoon, reflecting a possible environmental situation in the world today.

Open Jive Regional Challenge 2009

Winning Team of Local and Regional Finals – CDSTrio (Temasek Polytechnic)

After winning the local finals of the Open Jive Regional Challenge 2009, CDSTrio from Temasek Polytechnic went on to win the Open Jive Regional Finals, against competitors from Thailand, Malaysia, Indonesia and Phillippines, claiming the prize of Open Jive Regional Challenge Grand Champion.

CDSTrio’s winning application, “SmartShop” enables online shoppers to “try on” apparel when buying from e-commerce sites. Augmented Reality technology is used to impose virtual imagery of the clothes onto the live image of a person taken by the webcam. The purpose of SmartShop is to enable online viewers to “view” the product from different angles/distance as though they have the product physically in front of them.

CDSTrio also won two other awards at the competition – the “Sun Developer’s Choice Award”, which is given to the team with the most votes from developers at the event, and the “Elixir Market Potential Award”, given to the team with the most ability to provide a practical solution that is commercially viable, applicable to a real life problem and relevant to widespread target users.

National StrITwise® Challenge 2009

2nd Overall for National StrITwise® Challenge 2009: Crescent Girls’ School

- Winners for the StrITDesign: Robot Concept Design, Animatics & Life-sized Structure
- Quarter-finalists for the StrITCombat: Robocode
- 4min 30 seconds timing for the StrITSmart: Puzzles on IT Knowledge

The National StrITwise® Challenge 2009 consisted of three segments (1) the StrITDesign: Robot Concept Design, Animatics & Life-sized Structure; (2) the StrITCombat: Robocode; and (3) the StrITSmart: Puzzles on IT Knowledge. For the

National StrITWise Challenge, Crescent Girls' School sent a team of 6 representatives from the school's 3D Maya and Robotics Division of its Computer Club.

With the theme of the Challenge, 'Environment' in mind, the team's concept for the StrITDesign: Robot Concept Design, Animatics & Life-sized Structure component was for a life sized robot largely constructed out of cardboard and paints, with wires, slime (made from cornflour), compartments and changeable expressions for details. Besides the innovative use of materials for the robot, the team also revolved a story around the robot, citing that it was originally designed for evil purposes but had ultimately uncovered a talent for turning waste into crude oil, subsequently choosing to help to preserve the environment instead of destroying it. The creative use of an interesting story arc, as well as the originality of the design of the robot impressed the judges sufficiently, providing Crescent Girls' School with a first placing in this segment.

In addition, Crescent Girls' School also achieved good results in the other segments of the competition, clinching a quarter-finalist result in StrITCombat, which involved using Robocode for strategic programming to battle other robots, and a good timing in StrITSmart, which required the team to complete a series of IT-related tasks (e.g. attaching an Intel processor onto a PC motherboard), allowing the girls to storm on to clinch overall 2nd in the National StrITwise® Challenge 2009.