

## Creativity fuelled as MI2010 ends



The Malaysia Inovatif 2010 (MI2010) initiative by MOSTI made its last stop at Zon Tengah (Central Zone) on 13 and 14 November. The event was held at the Melaka International Trade Centre (MITC) in Ayer Keroh.

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## MOHE to continue CODE8 collaboration



The Ministry of Higher Education (MOHE) has agreed to continue its collaboration with MIMOS' Centre of Domain Expertise Acceleration (CODE8), the one-year programme to produce more skilled professionals.

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## Fancy wearing a smartphone?

In a Bahasa Malaysia-dubbed Japanese TV programme back in the early 1970s, a flying giant robot responds to a boy who gives commands using a wristwatch. Now, after more than four decades, parts of the fantasy may very soon become a reality.

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## UPNM collaborates with MIMOS on defence ICT



*CEMENTING THE FORTRESS... Allatif and Abd Aziz signing the MoU on behalf of UPNM and MIMOS respectively.*

MIMOS has signed a three-year MoU with the National Defence University of Malaysia (UPNM) on defence and security-related ICT. The MoU signing ceremony was held at the university on 12 January. UPNM Vice-Chancellor Lt-Gen Datuk Wira Allatif Mohd Noor, who represented UPNM at the ceremony, said that the collaboration with MIMOS was a step towards realising the university's vision of becoming a premier university of defence for education, training and the creation of knowledge. MIMOS was represented by Chief Operating Officer Abd Aziz Abd Kadir.

The collaboration will entail research and development (R&D) and academic teamwork involving ICT and defence information technology. This will include projects in wireless communication, information security, simulator, microelectronics and semiconductor. Also present was UPNM Assistant Vice-Chancellor for Industry Relations and Corporate Affairs Datuk Jesbil Singh. At the same event UPNM also signed MoUs with Secure Technology Innovations Sdn Bhd and Skyview Communication and Technologies Sdn Bhd where they will work together on maritime simulator and unmanned vehicles, respectively.

## Collaboration with Xirka to accelerate regional WiMAX industry

MIMOS has entered into a Memorandum of Understanding (MoU) with Indonesia's manufacturer of Broadband Wireless Access (BWA) chipset, Xirka Silicon Technology, to develop, perfect and deploy a second generation WiWi chipset, which is a hybrid of WiFi and WiMAX data access technology. Through the collaboration both parties will work on meeting various needs and safety requirements in creating the best solutions.

MIMOS Technology Portfolio Management Director Faisal Ahmad said that MIMOS was expanding on an advanced 4G WiMAX technology which would enable mobile demands, Internet telephony (VoIP), data and video through multicasting feature. Through the service, network operators can offer Internet protocol television (IPTV) by optimising its existing infrastructure. They can also offer solutions for residential needs, hotspots, SMEs and other facilities.



*PERFECTING COMMUNICATIONS... Information, Communications and Culture Deputy Minister Senator Datuk Maglin Dennis D'Cruz and MOSTI Deputy Minister Datuk Haji Fadillah Yusof witnessing the exchange of MoU documents between MIMOS CEO Datuk Abd Wahab Abdullah and Xirka CEO Sylvia Sumarlin.*

The collaboration had commenced in March 2010, but was only announced on the sidelines of the WiMAX Forum Southeast Asia Regional Focus 2010 held in Kuala Lumpur on 22 November. The regional partnership is seen as a platform that will assist in accelerating the growth of WiMAX industry in Southeast Asia and penetration of regional business enterprises to the vast global marketplace. At the same time the collaboration will open the opportunity in supporting local broadband initiatives in both countries.

# MIMOS-ASC

Partnership blends expertise and experience in psychometrics



*FIRST OF ITS KIND... The MIMOS-ASC collaboration will harness the expertise and experience of the respective companies in the field of psychometrics.*

**M**IMOS and US-based Assessment Systems Corporation (ASC) have signed an MoU for a strategic partnership in the field of psychometrics. The MoU signing ceremony was held at MIMOS on 25 January, 2011. Under this partnership, ASC will provide assistance in developing MIMOS' Computerised Adaptive Testing (CAT) system that will be used to administer psychometric tests in Malaysia.

This MIMOS-ASC collaboration marks the first of its kind in this country. The collaboration is timely as MIMOS spearheads the development of local psychometric tests to specifically assess critical attributes such as creativity, integrity, aptitude, and leadership skills among employees working in various fields in Malaysia. The partnership will leverage on MIMOS' expertise in developing psychometric instruments in Malaysia and ASC's experience in psychometrics and CAT in particular.

## MIMOS, QT collaborate on front end semiconductor value chain

**M**IMOS and QT Hightech Malaysia Sdn Bhd have signed an MoA to collaborate on boosting the front-end of the Semiconductor Value Chain. The signing ceremony in Kuala Lumpur on 15 November was witnessed by Deputy Minister of Science Technology and Innovation Datuk Haji Fadillah Yusof. MIMOS was represented by Chief Operating Officer Abd Aziz Abd Kadir while QT was represented by its Chief Executive Officer Charlie Yoon.

The collaboration is in line with Malaysia's New Economic Model aimed at enhancing process capabilities, semiconductor industry competitiveness and skills development. It is expected to result in more talent engineers and ensure Malaysia's ability to support new start-up companies and universities to develop their prototype products through multi project wafer (MPW) prototyping and manufacturing services.

The collaboration will primarily focus on QT's engineering support and maintenance of MIMOS' equipment. QT will also provide support to MIMOS' wafer fab engineers for new technology qualification, and will also conduct in-house training by trainers from Korea and/or Europe



*BOOSTING CAPABILITIES... Fadillah witnessing Abd Aziz and Yoon exchanging MoA documents. With the MIMOS-QT collaboration, Malaysia is set to shift focus towards front-end activities to move up the value chain and produce higher quality products and services.*

if the need arises. In exchange, MIMOS will provide equipment time for engineering and development purposes, and process engineering support for the technology development. MIMOS will also provide space for installation and commissioning of QT's equipment as well as for training.

In his speech at the signing ceremony Fadillah said that the government remained committed in supporting the electronics industry through various incentive schemes. The MIMOS-QT collaboration would enhance and build an innovation ecosystem to support the semiconductor industry and in turn bring the capabilities and capacities of the industry to the next level, he said.

# CODE8 a success, MOHE to continue collaboration

The Ministry of Higher Education (MOHE) has agreed to continue its collaboration with MIMOS' Centre of Domain Expertise Acceleration (CODE8), the one-year programme to produce more skilled professionals. Its Minister Datuk Seri Mohamed Khaled Nordin said that the programme was a starting point that would lead to a continuous effort in supporting the government's aspiration to transform into an innovation led-economy.

Mohamed Khaled said that CODE8 was an innovative approach that would accelerate the efforts in increasing the number of researchers, scientists and engineers (RSE) from 18 per 10,000 workforces in 2008 to 50 per 10,000 by 2010. He noted that all 50 of CODE8 apprentices had achieved outstanding performance particularly in enhancing their capabilities in the job market. The minister said that at the CODE8 Graduation Ceremony held at MIMOS on November 9, where the graduates received their certificates. The top 10 graduates also received special book prizes with the theme "Innovation".

At the function, MOHE and MIMOS exchanged MoA documents under which the ministry would provide funding for CODE8 while MIMOS would provide the technical expertise. At the end of the one-year programme, MIMOS will assist in finding job placements for all apprentices corresponding to their competencies.

Aside from the exchange of MoA, the event also witnessed the exchange of MoU between MIMOS and Penang Skills Development Centre (PSDC). Mohamed Khaled said that his ministry would continue to support such programmes and plan for more programmes to augment the marketability of Malaysian university graduates. He encouraged the industry to join forces in empowering graduates by providing them with opportunities to undergo high-end internship programmes.



*HEADSTART... After one year of working on leading-edge projects alongside experienced mentors in their respective field of studies, the young professionals will now be placed for jobs corresponding to their competencies.*

Launched in October 2009, CODE8 is a mentoring and coaching training programme designed to provide workplace experience to fresh local and foreign qualified graduates in the fields of ICT such as microelectronics, software engineering, knowledge engineering, artificial intelligence and wireless communications.



# MIMOS hosts World Usability Day programme



On 11 Nov 2010 MIMOS organised a Usability Symposium at the Tengku Datuk Dr Mohd Azzman Shariffadeen Auditorium. The event was a Partner Programme of World Usability Day (WUD) 2010, which was an initiative of the US-based Usability Professionals' Association. Carrying the theme "Bridging the Communication Gap", the Malaysian WUD event was a full-day event open to all including MIMOS staff and external industry.

This was the first time MIMOS had represented Malaysia in hosting a WUD programme. MIMOS was also the first and only Malaysian company to have organised such an event. The event attracted more than 140 participants comprising local companies, multinationals and learning institutions.

Highlights of the event included a talk on Usability of Social Media by Certified Professional Ergonomist Dr Halimahtun Mohd Khalid, who is Principal Scientist of Damai Science, a leading consulting company in human factors engineering and design in the region. This was followed by a series of presentation on User Centered Analysis, Design and Testing by MIMOS Usability Lab Head Ashok Sivaji; a Certified Usability Analyst, Sanmugarajan from CAE and UX Manager of F-Secure Eddy Hwang.

Prizes were given to winners of the Usability Quiz, which was conducted 10 days before the event to raise awareness on usability among MIMOSians. MIMOS Chief Operating Officer En Abd Aziz Abd Kadir, who officially opened the event, said that hosting a WUD2010 event was something to be proud of and in line with the government's economic transformation programme.

*USER FRIENDLY... Participants taken on a tour of the MIMOS Usability Lab.*



*SIGNIFICANT EVENT... Abd Aziz said that hosting a WUD2010 event was something to be proud of and in line with the government's economic transformation programme.*



*INTERESTING SUBJECT... Among participants in the programme include Certified Professional Ergonomist Dr Halimahtun Mohd Khalid, who later presented a talk on Usability of Social Media.*



*MAKING LIFE EASY... MIMOS Usability Lab Head Ashok Sivaji giving a presentation on User Centred Analysis, Design and Testing*

# MIMOS bags first registered patents



*Dr Mohd Rais Ahmad*

2010 drew its curtains with many sweet notes; most gratifying among all was probably the achievement for intellectual property milestone. MIMOS received its first registered patents on 15 December. The first MIMOS Patent Grants are:

1. Immobilised nitrate ionophore  
Inventor: Dr Mohd Rais Ahmad  
Date of Patent Grant: 15 Dec 2010  
Patent Grant No.: MY-142639-A
2. System and method for authenticating image liveness  
Inventors: Dr Lai Weng Kin and Dr Thomas Henrique Maud  
Date of Patent Grant: 15 Dec 2010  
Patent Grant No.: MY-142600-A

Congratulating the inventors and all MIMOSians, MIMOS President and Chief Executive Officer Dato' Abd Wahab Abdullah said that this was a landmark recognition and a beginning towards more innovative achievements.

# Changes

on the cards for R&D

The Ministry of Science, Technology and Innovation (MOSTI) will focus on four key agendas in 2011; revising the National Science and Technology Policy, empowering the National Science and Research Council (NSRC), proposing 2012 as the Year of Science to heighten the application of science and technology, and focusing on promoting science and mathematics as a run-up to next year's Year of Science activities, said its minister Datuk Seri Dr Maximus Ongkili.

He said that the revision and study of the science and technology policy was to chart the sector's growth for the next 10 years while empowerment of the NSRC was aimed at determining the government's direction specifically in research and development. MOSTI would work hand-in-hand with other relevant ministries as well as its own agencies to achieve these objectives, the minister said at the commemoration of Hari Inovasi (Innovation Day) of the ministry held at the National Science Centre on 17 January.



Meanwhile at the event, MIMOS President and Chief Executive Officer Dato' Abd Wahab joined Maximus, MOSTI senior officials and National Science Centre Director Prof Madya Dr Irmawati Ramli in releasing butterflies to mark the launch of Science Wonderland, which was formerly the centre's Science Education Park. The educational park has been upgraded in line with the changing public perception towards, and increasing demand for the latest trends in science, technology and innovation.



# Fancy wearing a smartphone? Enter award-winning MIMOS WristPC



In a Bahasa Malaysia-dubbed Japanese TV programme back in the early 1970s, a flying giant robot responds to a boy who gives commands using a wristwatch. Now, after more than four decades, parts of the fantasy may very soon become a reality. No robots or giant monsters involved, only smart wristwatches that allow the user to make video calls and communicate via the Internet, play games, access various multimedia digital content and run other computer applications.

All these and potentially much more are no longer children's fantasies with MIMOS' WristPC, which recently won the prestigious Red Dot Design Award. The award won by MIMOS is for Best Design Concept, which recognises products that feature innovation and design tailored for future trends.

*MIMOS WristPC is an innovative ultra-mobile personal computer concept that can perform a wide range of tasks and functions. It features a full functional 3.5" touch-screen display and a keypad on one side of the wristband. The display panel can be positioned at various angles so that the user faces the screen comfortably while using the device for texting or GPS. The wristband keypad can be flipped and placed on the tabletop for two-hand operation. The wireless earpiece can be detached from the wristband, making this device suitable for video or conference calls, listening to music or watching video while on the move. Gaming buttons are positioned at the bottom corners of the device. Because of its ultra compact size, battery life is significantly extended. Combining full computer functions and can be worn on the wrist like a watch, this product is set to offer a new user experience with its portability and ground-breaking architecture.*



*The award-winning design team (from left) Subject Matter Expert of Prototyping Nuzairi Yasin, Senior Industrial Designers Rohaizam Tahar and Mohd Nizam Najmuddin; and Industrial Design Head Saharudin Busri.*



*Saharudin (second right) with Mohd Nizam (second left) at the Red Dot Award Ceremony in Singapore on 25 November 2010.*

This is the first time that Malaysia has won the Red Dot Award from the Design Zentrum Nordrhein Westfalen, a leading European institution in the field of design promotion based in Germany. For this year's award, it received more than 13,000 industrial design concepts from over 60 countries. It is flattering to note that MIMOS won the award amid the participation of consumer electronics giants Nokia, Sony Ericsson and LG.

MIMOS Industrial Design head Saharudin Busri says that the product will go into production in two years' time and MIMOS is mulling over which company to mass-produce it. The device will be targeted at executives who are on the go and those into online games and social networking.

# Inaugural WiMAX Forum's SEA Regional Focus a resounding success



EMERGING WiMAX HUB... D'Cruz and Fadillah at the launch of the WiMAX Forum@ Southeast Asia Regional Focus 2010.

The WiMAX Forum® Southeast Asia Regional Focus 2010 was held in Kuala Lumpur from 22 to 25 November 2010. Carrying the theme “4G WiMAX in Emerging Markets - Innovation and Evolution in Delivering Broadband”, the conference was co-organised by MIMOS, P1, SIRIM and YTL Communications. The event was endorsed by the USA-based WiMAX Forum, and supported by the Ministry of Science, Technology and Innovation (MOSTI) as well as the Malaysian Communications and Multimedia Commission (MCMC).

The conference was launched by Information, Communications and Culture Deputy Minister Senator Datuk Maglin Dennis D’Cruz. Also present MOSTI Deputy Minister Datuk Haji Fadillah Yusof.

In his speech D’Cruz said, “The ultimate aim of delivering ubiquitous broadband Internet access through such technologies as WiMAX is to bring ICT to the public so that they can increase their knowledge and improve their quality of life... Very soon, Malaysia will be seen as the WiMAX Hub of Southeast Asia because of our strong track record in live deployment, our expertise in operating networks and now, our WiMAX testing laboratory.”

More than 280 telecommunication operators, analysts and vendors from 102 companies and 23 countries participated in the conference, which featured 30 presentations and panel discussions. MIMOS Senior Director and Head of Wireless Communication Cluster Dr Mazlan Abbas presented a paper entitled MIMOS - WiMAX and e-Government. The event ended with a visit to SIRIM QAS International WiMAX Forum Designated Certification Laboratory at MIMOS and rounded off with a reception and gala dinner hosted by YTL.

## Introducing WiMAX Smart Community

MIMOS participated in an exhibition in conjunction with WiMAX Forum Southeast Asia Regional Focus 2010 at Ritz Carlton, Kuala Lumpur from 22 to 26 November. The participation was in support of MOSTI’s initiative in spurring interest in science, technology and innovation among the people, and in educating them on current MIMOS research and development work – in this instance the ubiquitous communication technology.

The exhibition brought together WiMAX service and solution providers from all over the world particularly Southeast Asia. MIMOS showcased the WiWi 1.8 and 2.0 at the booth, themed “MIMOS WiMAX Smart Community”. More than 200 visitors visited our booth.



CHANGING COMMUNICATIONS... 4G WiMAX can help Malaysia become a high-income nation and MIMOS is among the leaders in the community.



### MIMOS WiWi™ Outdoor Access Point

MIMOS WiWi™ Outdoor Access Point is an ideal enterprise business solution for residential, hotspot, vertical and small-and medium-sized enterprises (SMEs) and is also designed for wireless network operators who can deploy it anywhere on an outdoor wall or even on street lamp posts and at any place such as cafes and restaurants, estates and plantation areas, housing areas, petrol kiosks, colleges and universities, schools, shopping complexes and office buildings, with no signal reception and transmission limitations. It is durable, water-proof and dust-proof and can endure various challenging environmental conditions.

## MIMOS WiWi™ router launched

In conjunction with the inaugural WiMAX Forum Southeast Asia Regional Focus 2010 held in Kuala Lumpur on 22 November, MIMOS launched its WiWi™ Outdoor Access Point. The customer premises equipment (CPE) is to function as a replacement for last mile connectivity.

The solution offers the world's first hybrid network approach by implementing open architecture to support any compatible off-the-shelf WiMAX (Backhaul) and WiFi (access) modules. It can also be used to counter connection problems in poor coverage areas such as in rural areas.

The MIMOS WiWi™ Outdoor Access Point enables quadruple play (VoIP, data and video) with seamless mobility through its enhanced multicasting feature, which in turn enables network operators to offer Internet Protocol Television (IPTV) services by leveraging and optimising existing backend infrastructure.

## Malaysia to the fore of WiMAX testing

The SIRIM QAS International WiMAX Testing Laboratory supports both national and international WiMAX network operators, R&D centres and manufacturers by providing testing services on products to be used in the WiMAX network. The RM18 million lab, which started operation in May 2010, was set up with assistance from MIMOS. It is the only independent WiMAX testing laboratory in the Southeast Asian region.

The lab will further support the development and growth of ICT in Malaysia, said SIRIM QAS International Sdn Bhd Managing Director, Khalidah Mustafa. It will also support the government's National Broadband Initiative to foster economic progress through the establishment of a knowledge-based economy and realise its aspiration to enrich the lives of Malaysians and bridge the digital divide, she said.

The lab is able to perform measurements for all WiMAX profile (2.3GHz, 2.5GHz and 3.5GHz). WiMAX product developers and manufacturers can significantly reduce product development cost and time by validating product conformance to standards and interoperability

during development stage. Products can be tested during the development stage or prior to undergoing WiMAX Forum Certification. SIRIM QAS is in the process of obtaining accreditation to ISO/IEC 17025 from Standards Malaysia as a pre-requisite to becoming a WiMAX Forum Designated Certification Laboratory (WFDCL).



*SOUND FACILITIES... Khalidah with MIMOS Head of Wireless Communication Cluster Dr Mazlan Abbas during the handover ceremony of the SIRIM QAS WiMAX Testing Laboratory at MIMOS in April 2010. The lab is the only independent WiMAX testing lab operating in Southeast Asia.*

# Year-end townhall shifts gear to

# Take The World

*LOOKING FORWARD TO 2011... MIMOSians were clearly absorbed by the CEO's 2010 capper, which had declared the new decade as the year to take on the world.*

MIMOS' aspiration to "Take the World" reverberated throughout the MIMOS campus on 17 Dec 2010 as we held the last Townhall of the year. The meeting was held at the Tengku Datuk Dr Mohd Azzman Shariffadeen Auditorium, Seminar Room 1 & 2 at MIMOS TPM, and livecast to MIMOS KHTP via video conferencing.

Dato' Abd Wahab's message was set off with a bold keyword: 10MP. The CEO underlined three key areas of MIMOS' activities; Research, Development and Commercialisation, where he encouraged MIMOSians to leverage on collaboration with universities for the Research component, have a clear market focus in the Development and go global for the Commercialisation stage.

With research grant no longer coming from MOSTI in 10MP, MIMOS will now bank on market verticals, which include industry-funded Entry Point Projects (EPP) under the recently announced Economic Transformation Plan (ETP). The projects include those in government services, agriculture, education and healthcare. Most of MIMOS projects involve the Wireless Communication Cluster.

Abd Wahab said that all MIMOS research labs will maintain the 80:20 engagement with universities and other research institutions. In other words, MIMOS is working towards tapping 80 percent of the talent strengths from universities and industry to realise innovation. On the Centres of Excellence, the CEO emphasised that the aim was to make the respective MIMOS CoEs the technology reference centres for the industry.



*SIX SIGMA PROWESS... Abd Wahab presenting the Six Sigma Green Belt Award to Software Development Senior Engineer Ram Kumar Rajamogan.*



*TOP INVENTOR... Recipient of the biggest IP filing reward, Dr Hon Hock Woon receiving his certificate and reward from the CEO. Dr Hon received a whopping RM19,272.00 for his effort*

With 2011 being set as MIMOS' year of going global, Abd Wahab said that this called for a change in the mindset. "To move forward, we can't be like what we are today," he stressed. Abd Wahab went on to emphasise the three important qualifiers to become a high-performance organisation; essentially the need to have the right alignment, to be organised and to have the right talents at the right place. He envisioned that with this winning formula, MIMOS would have distinctive capabilities that shall be the prelude to positive business results.

On funnel status and outlook, the CEO remarked that MIMOS had achieved, and even exceeded the RM1 billion target, even though it was a clearly tough goal. To avoid confusion, he reiterated that the amount refers to the in-hand purchase orders of MIMOS technology recipients. The townhall also heard that in 2011 MIMOS will be clearing backlogs to put proofs of concepts to the technology shelf.

Also at the meeting, six Six Sigma Green Belt programme graduates received their cheques and certificates, and four new SATRIA1 Ambassadors received their trophies and certificates. There were two Gold Badge and 4 Platinum Badge recipients. Twelve MIMOSians were presented with cash awards for their IPs filed this year, with the highest amount netted by Centre for Intelligent Imaging principal researcher Dr Hon Hock Woon.

As an appreciation to all MIMOSians for a great 2010, complimentary lunch was served at MIMOS TPM as well as KHTP after the meeting



*INSPIRING YEAR-ENDER... "To move forward, we can't be like what we are today," Dato' Abd Wahab said at Q3 Townhall. The CEO urged MIMOSians to tune to the right mindset to go global in 2011.*

# Better **SPACE** for bytes



*LET'S GET COOKING... Abd Wahab hitting the "gong" made from a wok to signify the re-opening of the MIMOS Cafe. The brighter and breezier interior of the renovated cafe is set to be a refreshing venue for lunches, breaks and discussions.*

On Monday 11 Oct 2010, exactly two months after its closure for renovation and upgrading, the MIMOS Cafeteria sprang to life again. A simple ceremony was held where CEO Dato' Abd Wahab Abdullah hit a "golden wok" gong to officially declare the cafeteria open. The golden wok symbolised a new start and prosperity for MIMOSians.

MIMOSians were generously treated to a complete course of chicken rice lunch; with fruits, desserts, and cold and hot beverages. A vegetarian and à la carte counter was also introduced. MIMOSians at KHTP were also treated to lunch gratis. The re-opening of the cafeteria also marked the introduction of a new caterer, Naili's Berkat Enterprise.

Noticeable makeovers are the cashier and cutlery station which is now placed on an island to avoid congestion at the food counter, while separate entrance-exit are introduced for better traffic circulation. Among other changes include a more open, brighter and breezier layout with expanded air-conditioned hall, a more secluded smoking area, a separate drink counter, and a tray collection window, which means that MIMOSians must now carry their own soiled plates and cups to the dishwashing area after meals (Isn't that the practice of world's best companies?)

A cheerful mural welcomes guests at the façade, while another one with a similar scheme drapes the focal interior wall, which also puts up an assuring cue, "The world's greatest innovation begins here over a conversation". Well, with the refreshing facelift, MIMOSians can certainly look forward to food for thought, almost literally.



*MAKAN TIME... MIMOSian lining up for chicken rice on the house.*

# 28 children receive scrolls

## at Tadika MIMOS Graduation

At the MIMOS Auditorium on 13 Nov 2010, happy faces of the parents and cheerful expressions and giggles of the children painted a picture of sheer joy and satisfaction. It's *Majlis Penyampaian Sijil* (Graduation Day) for Tadika MIMOS! A total of 28 children received their certificates, stationery and other items.

Before an audience of proud parents, supportive siblings and MIMOS VIPs, two representatives of the Tadika delivered heartwarming welcome speeches, one in English and one in Malay. Later, the event climbed to higher temperature. Carrying the theme 'Fantasy', it centred on a girl who fell asleep and had a dream, which was portrayed by various performances that included a very spirited Lion Dance to the tune of "Wong Fei Hoong", nasyid choir and folk dances. After all, isn't dream part of the innovation process?



To the children, the graduation ceremony was probably an event that declares "You're officially a big kid now, ready to go to a real school and learn more difficult stuff". For the parents, it was contentment and gratitude, knowing that they had given the children a great start in life – their children now have strong foundations to take on the next stage of their educational journey, and that MIMOS had placed great value not only on learning and fun but also on creativity, integrity, friendship and love. The little 'graduates' may or may not join MIMOS when they become adults, but they have learned to love learning and that skill will help them a great deal as they progress with their education.

# MIMOS shines at MOSTI Tennis Tournament

Despite only clinching runners-up honours, MIMOS stood out tall as the organiser of the tennis tournament of the MOSTI Inter-Agency Games held on December 4-5. SIRIM emerged champions while the Department of Chemistry earned third placing at the tournament, which was held at the Universiti Putra Malaysia Sports Complex in Serdang. At fourth place was MOSTI.

The annual sports carnival had opened in October, involving participation from MOSTI's 22 departments and agencies. This year, MIMOS was given the honour to organise the tennis event, for the second year running. On the first day, the match that was supposed to begin at 10:00am was postponed to 2:30pm due to incessant rain on the outdoor courts.

MIMOS also participated in other events in the sports carnival; namely badminton, bowling, table tennis, futsal and volleyball. We won second place in Men's Volleyball and third place in Men's Table Tennis. In badminton, both our Men's and Ladies' teams secured third placing.

# Fewer “fatalities” reported at MIMOS emergency drill

An emergency evacuation drill is not only conducted to exercise our preparedness for fire breakouts but also for other potential emergency situations such as bomb threat, earthquake, building collapse, gas explosion or for other reasons on the authority’s instruction.

When MIMOSians receive emails from the HSE Unit on the subject of “fire safety”, for two consecutive two days, they know (and should be prepared) that an emergency drill is imminent. True enough, about one week after receiving emails with the subject “Know your emergency assembly point” and “Fire instruction”, MIMOSians heard the continuous activation of the fire alarm at 3.15 sharp on 9 December 2010. The drill was conducted in accordance with the requirements of Bomba and Fire Service Act 1984.



*BETTER SAFE THAN SORRY... Senior Fire Officer I Sabri Ahmad addressing MIMOSians after the successful evacuation. MIMOSians gathered at the emergency assembly point, with five people reportedly missing from the rollcall. The absent people were later found to have exited the building after the five-minute time limit or have proceeded to a wrong location.*



*HERE'S HOW... MIMOS ERT member Hamdan Jasir using an extinguisher to douse a small fire near the assembly area.*

Ablly assisted by MIMOS’ Emergency Response Team, we assembled at the green area next to the Tadika. The exercise was observed and monitored by Bomba officers from the Bukit Jalil Fire Station led by Senior Fire Superintendent Tuan Azhar Mohd Nordin, who arrived in a fire engine five minutes after the alarm was sounded. Based on Bomba assessment, most occupants managed to evacuate the entire building in five minutes, which was the minimum requirement for the drill. Five people were considered to have “perished” in the exercise.

In his short address to the crowd, Senior Fire Officer I En Sabri Ahmad said that all staff should view the drill very seriously. Admitting that he sometimes had to use harsh words such as “*pos jenazah balik*” (send your remains home by post) Sabri reminded that fire evacuation plans should be the most important aspect to be aware of whenever one is to occupy a building such as a hotel. He noted that the emergency drills at MIMOS have shown improvement in recent years as indicated by the decreasing number of “fatalities”.

# Psychometrics

## seminar series kicks off

**P** psychometrics, the science of measuring cognitive traits in an accurate and meaningful manner, has a wide range of potential applications – it can be used to measure anything from the academic knowledge of students to the leadership qualities of candidates for managerial positions or the preferences of consumers.

A talk on “Using Personality Testing to Enhance Selection Decisions for Government Sector Jobs” was held at the MIMOS Auditorium on 13 January 2011 with guest speaker Assoc Prof Dr Olexander Chernyshenko of Nanyang Technological University, Singapore. The talk was the first in the Psychometrics Seminar Series organised by MIMOS’ Psychometrics Centre.

Dr Chernyshenko discussed on the challenges of hiring a diverse work force when traditional selection criteria such as cognitive ability scores or levels of educational achievement were not distributed equally across academic groups. He also highlighted on the advantages of psychometric personality testing over traditional interviews. Having worked with the New Zealand police



*NEW CAT ON THE BLOCK... Dr Thompson delivering the talk on Computerized Adaptive Testing (CAT). CAT has been regarded as the a test delivery method of the 21st century for its intelligent examinee profiling, increased test security and score reliability, better experience for examinees and scores of other advantages.*

and with a governmental organisation in the United States, Dr Chernyshenko also shared his invaluable experiences.

Another seminar was held on 28 January 2011, this time on “Computerised Adaptive Testing (CAT): Applications and Advantages”, with Assessment Systems Corporation Vice President Dr Nathan A Thompson as facilitator.

This seminar discussed on the primary concepts of CAT and how its advantages could translate to real-life benefits for organizations. There are many advantages of CAT, including much shorter tests, increased test security, more uniform score reliability, minimized practice/retest effects, and a better experience for examinees. The seminar also discussed applications of CAT around the world, including in the USA, Singapore, Japan, South Africa, and the Netherlands.



*HR METRICS EXPERT... Dr Chernyshenko discussing on the challenges of hiring a work force and how psychometric personality testing can bring better selections as compared to traditional interviews.*



# Creativity fuelled as MI2010 ends

The Malaysia Inovatif 2010 (MI2010) initiative by MOSTI made its last stop at Zon Tengah (Central Zone) on 13 and 14 November. The event was held at the Melaka International Trade Centre (MITC) in Ayer Keroh. Central Zone comprise Kuala Lumpur, Negeri Sembilan, Selangor and Melaka.

MIMOS was assigned as event managers for the “Malam Kreativiti Muzikal” component, which saw the participation of schools and higher learning institutions from the four states. The participants displayed energetic and innovative performances of music, dance and drama. MIMOS also took part in the exhibition, where we showcased our Intrusion Detection System and Precision Agriculture solutions.



The series of nationwide programme culminated with the Festival Malaysia Inovatif held at National Sports Complex in Bukit Jalil from 24 to 26 November 2010. MIMOS participated in the exhibition, which featured about 200 exhibitors. Because the event was held on weekdays, we did not expect a large crowd. Still, about 200 visitors were briefed on our Precision Agriculture solutions.

Climax of the event was held on the evening of 25 November, and was graced by Prime Minister Dato’ Sri Najib Tun Razak together with Minister of Science, Technology and Innovation Dato’ Seri Maximus Ongkili. All in all MIMOS’ participation in MI2010 in all zones had provided support to MOSTI’s initiative in spurring interest in technology among the people. Through the exhibitions we also educated the public on MIMOS’ roles and current R&D work.

# MIMOS displays continued support for MAHA

The Malaysian Agriculture, Horticulture and Agrotourism Show (MAHA) 2010 was held from 26 November to 5 December at the Malaysian Agro Exposition Park, Serdang. The biennial series of agricultural exhibition was hosted by the Ministry of Agriculture and Agro-based Industries and organised by the Federation Agriculture Marketing Authority (FAMA). The event was officially launched by Prime Minister Dato' Sri Najib Abd Razak on 27 November.

MIMOS participated in the event together with our partners in innovation; namely technology recipients Innovision, Mutiara.com, BiForst, and the Department of Agriculture; and collaborators Kontron, Intel and Universiti Putra Malaysia. As one innovative team, we showcased our Livestock Monitoring System and Advanced Aqua Farming, in supporting the event's theme of "Agricultural Innovation for Growth".

The MIMOS booth attracted a reasonably good crowd, with AgriBazaar logging 380 new registered users throughout the show. As a bonus, MIMOS won second place for Best Booth under the category Public Listed Private Company, while MOSTI won third place under Government category. Overall, although it was



a tiring 10-day outing, the event succeeded in raising awareness on MIMOS' technologies and in positioning the organisation as a focal point in R&D of modern agriculture.

## Exhibition enhances

### community celebration

From 3 to 5 December 2010, MIMOS participated in an exhibition in Kota Marudu, Sabah that featured various government departments as well as the private sector. The exhibition was held on the sidelines of a local community festival which saw, among others, a charity concert, sports activities and a record-breaking corn eating feat by 2,200 people. The "Pesta Jagung" or Corn Festival was opened by Minister of Science, Technology and Innovation Datuk Seri Maximus Ongkili, who is also Kota Marudu Member of Parliament. The festival is an annual event organised by the District Office of Kota Marudu, Sabah. MOSTI supported this event by bringing its departments and agencies.

The exhibition also attracted many local entrepreneurs, students and families. Appropriate to the local community setting, MIMOS and other agencies in MOSTI's booth had a modest presence. MIMOS exhibited the Intrusion Detection system, which drew many visitors who were keen on learning about our technology. Altogether, more than 300 visitors were briefed on MIMOS technologies, particularly the Intrusion Detection system.



Maximus in his opening speech urged the farmers to open up to new technologies. He also said that MOSTI would hold a year-long nationwide programme to promote wider appreciation of science and technology among Malaysians in 2011.



1 Oct 2010:  
KIWI CONNECTION...  
MIMOS CEO Dato' Abd Wahab Abdullah playing host to a delegation from New Zealand at MIMOS' Round Room.



6 Oct 2010:  
KNOWLEDGE SHARING...  
MIMOS Head of Knowledge Technology Cluster Dr Lukose Dickson giving a presentation to a delegation from Badan Pengawasan Keuangan dan Pembangunan, Indonesia.



24 Nov 2010:  
WiMAX HUB... MIMOS Senior Researcher, Communications and Network Solutions, Shariq Haseeb taking the participants of the WiMAX Forum® Southeast Asia Regional Focus 2010 on a tour to MIMOS K-World after the successful conclusion of the conference in Kuala Lumpur.



24 Nov 2010:  
MUTUAL INTEREST...  
Chairman of Information Technology Institute of Egypt, Dr Mohamed Salem with MIMOS CEO Dato' Abd Wahab Abdullah during the Institute's working visit to MIMOS.



2 Dec 2010:  
HIGH TECH NAVAL DEFENCE... MIMOS Knowledge Engineering Director Nor Ezam Selan giving a presentation to a delegation from National Hydrographic Centre.



25 Jan 2011:  
INFORMED LADIES... Information systems engineer Zalhan Mohd Yusof taking a delegation from Universiti Kebangsaan Malaysia on a lab tour at MIMOS.

# Creating **VALUE** in the community



*EARLY START... Fascinated children experiencing the wonders of ICT at Masjid Al-Kauthar near Kangar. When a household can't afford to have a computer and the cybercafés in town aren't too conducive, K-Masjid has the answer. With K-Masjid, children are not only exposed to ICT but also good values such as frequenting the mosque while disciplining themselves to the call for prayers.*

As an agency of MOSTI, MIMOS is committed to serve the community by creating value through knowledge generation, wealth creation and societal well-being. Beyond our operations of implementing R&D and delivering technology platforms to local industries, we fulfil our corporate social responsibility by addressing challenges and needs of the society, both in urban and rural areas.

Under MOSTI's Technology Application Programme (TAPMOSTI@COMMUNITY), MIMOS has been assisting the ministry in reaching out to people at the grassroots level and bringing to them the benefits of ICT. The K-Masjid is one of the programmes where MIMOS has touched base with folks in small towns and villages. A number of individual K-Masjid projects has already commenced throughout Malaysia in 2010. Up north, projects at Penaga in Kepala Batas and Kampung Paya in Kangar have started bringing benefits to the local community.



Masjid Jamek Penaga and Masjid Al-Kauthar in Kampung Paya, which are located about 380 km and 510 km north of Kuala Lumpur respectively, are now equipped with a K-centre cum cybercafe with 10 PCs each. An ICT coordinator has been appointed by the respective mosques committees to run the daily operations

and oversee activities. At the K-centre, basic ICT classes are held for young people and adults alike. Each mosque is also installed with a 40-inch LCD TV, a motorised white screen and a video camera.



*DIVINE PURSUIT... Senior citizens try to search for religious content on YouTube at Masjid Jamek Penaga, Kepala Batas. With the K-centre and cybercafe located within the mosque compound, the community can bring ICT closer to their daily life and can benefit from new technologies such as video sharing and online communication.*

While the K-centre is set up mainly for ICT education, and the audio visual equipment installed for more efficient dissemination of knowledge, the cybercafe is targeted at sustainability of the development. Open daily with each patron charged at RM1 to RM2.50 per hour (depending on factors such as mosque location), the cafes are expected to generate income for the entity in addition to serving as a cool hangout for the young people. It is also interesting to note that the cybercafés will be closed during prayers, with the surfing credit reimbursed. This is seen as a unique way to drive healthy activities within the mosques without financially burdening the families. The individual K-Masjid projects are scheduled to be officially launched in separate events in Q2 2011.



Premier Applied Research Centre in  
**FRONTIER**  
Technologies



**Vision**

To be a premier applied research centre in frontier technologies

**Mission**

To pioneer innovative information and communication technologies towards growing globally competitive indigenous industries

MIMOSFocus is a newsletter published by MIMOS Berhad to keep all our stakeholders updated on our latest events and happenings. We would like to continuously improve this publication to meet the needs of our readers. In this spirit, we appreciate your comments and feedback. MIMOSians may also submit articles and photos. The Editorial Team reserves the right to edit your contributions for suitability, clarity and availability of space. For more information about MIMOS, please visit our website at [www.mimos.my](http://www.mimos.my)

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