

**Tech Event**

# Dhaka gets the hang of science of printing

## HP launches new AIOs

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**D**HAKA'S tech community got a foretaste of Hewlett-Packard (HP)'s proactive movement of educating its clients about the science of printing involved in original printing solutions at an event where HP unveiled a new range of all-in-one (AIO) products and print solutions on April 12 at Hotel Sheraton.

With the new multi-functional devices, the event transmitted some of the key points from 'The Science of Printing', a seminar that was held at the Inkjet Supplies Manufacturing Singapore (IJMS) facility with regional journalists on March 4-5.

HP's science and engineering department plays a major role in their success story. Their innovations and hard work to retain quality earns reliability from their consumers in return.

"In a recent study it has been found that colour triggers more than 85 per cent people to buy something than black and white (B&W). One remembers a colour presentation 60 percent more than a B&W," said Shabbir Shafiqullah, sales manager, HP imaging and printing group Bangladesh. "HP leads the market in Photosmart technology," said Bob Ang, sales manager, HP imaging and printing groups Asian emerging countries. "Today we get instant printouts by



New AIOs on display

just clicking a button. Colour no longer makes the printing process slow. Researches by independent sources have proved HP nine times reliable for black prints and 50 times reliable for colour prints. A toner is not just black powder but a technical component". Bob also explained some important factors from the 'science of printing' in brief.

**The Ink performance**  
HP's ink technology includes black fortification, which moistures the dark black text. The pigmented black ink includes patented technology for excellent water resistance. The inks provide outstanding lightfastness preventing fading. HP puts an average of 12,000 engineering and scientist hours into each ink

refinement. It consumes more than 22,000 litres of ink for testing, optimising and scaling up an ink formation.

**HP PhotoREt Pro technology**  
The PhotoREt Pro technology offers '8-ink' printing. The new HP Photosmart 7960 printer includes PhotoREt Pro in a total of four print cartridges, the new HP 59 grey photo cartridge, the HP 58 photo cartridge, the HP 57 tri-colour cartridge and the HP 56 black cartridge.

**The paper**  
Two basic types of ink receptive coatings are used in inkjet photo papers -- swellable and porous. Swellable coatings are made of synthetic or natural polymers that



Bob Ang makes his presentation at the event

swell in contact with water or inks. After the ink dries, dye is left behind and encapsulated in the coating, which essentially protects the dye from any contact with airborne pollutants.

Porous coating for inkjet photo prints is a recent technology and has been designed to dry immediately after printing. These semi-rigid coatings comprise of millions of microscopic particles. The ink flows through the spaces between the particles and deposits the dye on the surface of the particles.

**Toner Tech**  
HP colour toners are second generation polymerised or chemically grown toners, rather than conventional pulverised toners. Having

improved pigments, their formulations contain a soft wax core for fast, smooth, oil-less fusing. The chemically grown toner provides wider colour gamut, true-to-life colour appearance and a sharp, crisp text quality.

**The AIOs**  
The multi-functional devices and print solutions released at the event focus on small and medium businesses (SMBs) of all sizes to enable them to get more from their imaging and printing. The new multi-functional equipment released include three new HP LaserJets and two HP Officejets, which combine the functions of scanning, printing, copying and faxing into one reliable business

device.

**HP Officejet 9100**  
The HP Officejet 9100 series combines the functions of print, scan, copy, fax and digitally send documents and images to file folders or e-mail without a dedicated computer connection. It also provides remote management features, colour control and tracking options to reduce service and usage costs.

**HP Officejet 5510**  
The HP Officejet 5510 AIO offers professional printing quality in both colour and black. It can serve as a convenient personal fax machine with a 33.6 kbps modem and transmission of three seconds per page. The flatbed design makes it easy to scan and copy images from brochure thick reference books and more.

**HP LaserJet 3015 AIO**  
The integrated service of HP LaserJet 3015 enable print/copy speed of up to 14ppm (A4) with output quality of up to 1200 dpi. Its ADF capacitates 30 sheets unattended copying, scanning and faxing for large documents.

**HP LaserJet 3020/3030 AIO**  
This is another compact flatbed serving the purpose of four printing, copying, scanning and faxing.

**HP Colour LaserJet 3500/3700**  
The HP Colour LaserJet 3500 series has been designed for workgroups of up to 10 users. Its instant-on fuser technology ensures no warm up time with first page out in 22 seconds.

**Tech Snaps**

### Internet Fair 2004

The first internet fair of the country is scheduled to take place at the Osmani Memorial auditorium on April 15 and 18, says a press release. Abdul Moyeen Khan, minister, Ministry of Science and ICT is expected to inaugurate 'Internet Fair 2004' having Marghub Morshed, chairman, Bangladesh Telecommunication and Regulatory Commission (BTRC) as special guest. Around 65 ISPs, networking companies, web development firms and multimedia and software development companies are expected to participate. A number of seminars will also take place during the two-day fair. The fair will also have free browsing corner arranged by Bcom. Computer Bichitra and Bangladeshinfo.com will be coordinating the fair as media partners.

### BASIS, BCS, ISPAB to work together

To achieve common goals in the development of the ICT sector of the country, Bangladesh Association of Software and Information Services (BASIS), Bangladesh Computer Society (BCS) and ISP Association of Bangladesh (ISPAB), three IT associations of the country agreed to find out ways and means to work together, says a press release.

This was decided at a meeting held at the secretariat of BASIS on April 7, involving the board of directors of the associations. Sarwar Alam, president, BASIS, S M Iqbal, president, Bangladesh Computer Society and Akhtaruzzaman Manju, president, ISP Association of Bangladesh were present at the meeting along with other board of directors.

They felt clear and present need for extensive co-operation for the development of ICT sector in Bangladesh and removing the impediments in the growth of the sector. The meeting unanimously decided to form a six-member coordination committee having two-members from each association. The coordination committee will be entrusted primarily to coordinate the activities of the three associations and to execute joint events. It was also decided that long-term goals and activities concerning the development of ICT sector should be addressed jointly by the associations.

**White Knight**

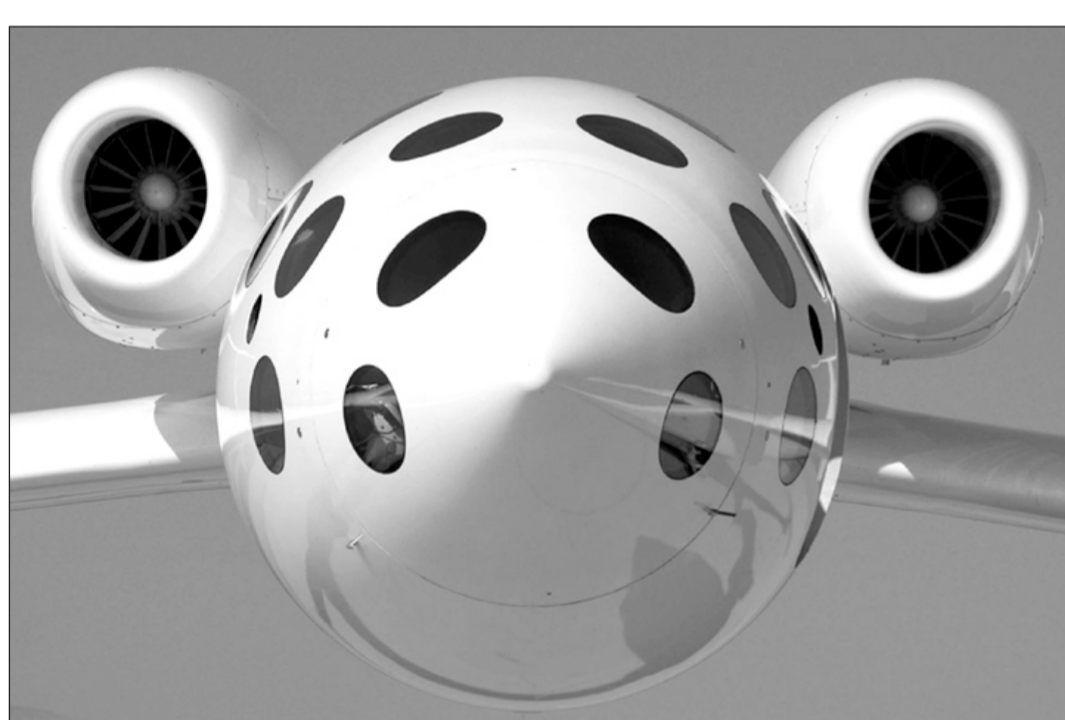


PHOTO: AFP

This undated handout image received on April 8, from Scaled Composites shows a head-on view of the White Knight, the carrier for "SpaceShipOne". The Federal Aviation Administration on Wednesday gave a one-year license to Scaled Composites of Mojave, California for a manned suborbital rocket, a step toward opening commercial space flight for private individuals for the first time.

**Tech News**

# Industry leaders team up again to cut business-critical computing costs

**STAR TECH DESK**

**D**ELL and Oracle expanded their strategic partnership with an initiative to significantly lower the cost of business-critical computing for a broader range of customers on April 6, says a press release. The Dell and Oracle partnership continues to make it easy for customers to acquire and deploy business-critical computing based on standardized, cost-effective technology.

The initiative includes an exclusive go-to-market agreement, making Dell the first Oracle partner to deliver a shrink-wrap packaged offering of Oracle Standard Edition One. Oracle Standard Edition One will be made available with Dell PowerEdge servers worldwide. Dell will also continue working to expand customers' adoption of Grid technology with solutions based on Oracle Real Application Cluster technology. Additionally, both companies are working together to provide



customers in China a one-stop, single point of contact for Linux and grid computing. The Dell/Oracle configurations consist of

Dell PowerEdge 2600 or 2650 servers and CDs containing the Oracle Standard Edition One database, which will include a shrink-wrap licensing agreement that allows the customer to enter into a contract to license the Oracle Database by simply breaking the seal. This demonstrates the ongoing commitment of both companies to lower the cost of enterprise computing by making business-critical technologies, such as Oracle's industry-leading database, easily available to all companies, regardless of size.

**Dell and Oracle: affordable, easy to deploy, manage and grow**

Oracle Standard Edition One enables users to build and deploy business-critical applications with proven performance, availability, security and reliability. Since Oracle Standard Edition One can be deployed on single servers with a capacity of up to two processors, such as the Dell PowerEdge 2650 and PowerEdge 2600, it

is especially attractive to organisations, line-of-business departments and distributed branch environments.

Dell's extensive experience in the volume server market has enabled it to deliver an Oracle Database platform that is easy to purchase, implement and manage. Dell will provide tested and supported configurations of Dell PowerEdge servers with Oracle Standard Edition One and serve as the single point of contact for those customers. Customers that want to purchase only the software can continue buying directly from Oracle.

The combined Dell server and Oracle software platforms are available for order today for use with Red Hat Enterprise Linux starting at \$US 4,108. As part of this agreement, Dell will also factory install Oracle Standard Edition One with Red Hat Linux and Microsoft Windows on Dell PowerEdge 2600 and 2650 servers later in the year.

**Best 10 Websites**

Category: Digital Audio & Music

- Audiohead.net**  
Interviews, gear reviews, tech tips & resources for people into recording, mixing & sound design.  
URL: <http://www.audiohead.net/>
- SoundStage!**  
Good quality magazine for high end audio & music.  
URL: <http://www.soundstage.com/>
- Pro Audio Review**  
Pro audio gear & tech reviews.  
URL: <http://www.proaudioreview.com/>
- Computer Generated Music**  
Yahoo guide to computer generated music.  
URL: [http://dir.yahoo.com/Entertainment/music/computer\\_generated/](http://dir.yahoo.com/Entertainment/music/computer_generated/)
- Digital Audio Info**  
Links to assist those involved with audio editing & CD recording.  
URL: <http://www.knoxvillewedding.com/RecordingInfo.html>
- Digital Domain**  
Premiere source of information & articles on digital audio recording & mastering.  
URL: <http://www.digido.com/>
- Computer Sound**  
Clear introduction to the topics of noise & distortion in digital recording.  
<http://opax.swin.edu.au/~%7E305064/>  
[www.CITP003/web/sound/sound2.htm](http://www.CITP003/web/sound/sound2.htm)
- Audiophile Links**  
Articles & links for Hi-Fi fans.  
URL: <http://www.geocities.com/BourbonStreet/Quarter/9856/aud2000art.html>
- EntertainmentLink**  
Links to music festivals, resources for musicians, E-zines & music lyrics.  
<http://www.entertainmentlink.co.uk/music/>
- Music Links**  
Top music links from the open directory project.  
URL: <http://dmoz.org/Arts/Music/>

**Tech News**

## Intel unveils new chip for high-end cell phones



**AFP, Seoul**

Intel Corporation the world's biggest semiconductor firm, has unveiled faster low-power microprocessors for high-end mobile phones and personal digital assistants.

The new XScale processors can handle multiple forms of wireless broadband access and are designed to support "smartphones," which are capable of offering sophisticated e-mail, Internet and video functions, Intel Korea said.

Intel plans to produce the XScale processors from the second quarter of this year.

The introduction of XScale-equipped smartphones is seen as a key step in a satellite-based mobile broadcasting venture by mobile carriers.

South Korea is a key market for Intel because of its advance in the information and technology sector, Intel Korea PR manager Oh Mee-Rye said.

The XScale processors, which have higher performance and lower power consumption, allow cell phones to offer video conferencing and PDAs with DVD-like image quality, an Intel statement said.

"Advances in wireless broadband demand a new kind of wireless device," Intel executive vice president and general manager Sean Maloney said in a statement released here.

"As various forms of wireless broadband access become increasingly available -- 3G, Wi-Fi or WiMAX -- mobile devices must have plenty of performance balanced with low-power capabilities to be able to handle all that the Internet has to offer," he said.

**Photo Tech**

**PHOTO: AFP/ANSA**

This image acquired by the Mars Exploration Rover Opportunity's panoramic camera, and received on April 9, features the hole ground by the rover's rock abrasion tool into "Bounce" rock. The hole measures approximately 35 centimeters (14 inches) long and 6.44 millimeters (0.25 inch) deep. The grinding procedure took place on the rover's 66th sol on Mars and lasted 2 hours and 15 minutes.