



HONEYWELL CHAIRMAN AND CEO DAVE COTE FORECASTS GROWTH IN INDIA

Opens new Engineering Center in Bangalore

Honeywell (NYSE: HON) Chairman and CEO Dave Cote inaugurated a new \$50m research, development & engineering facility at Bangalore on May 7, 2009. It is Honeywell's second R&D center in the city. The new facility will accommodate 3,000 people and features laboratory facilities, simulators, and a training center.

"India is an integral part of Honeywell's global growth strategy," said Honeywell Chairman and CEO, Dave Cote. "We are committed to India as a manufacturing location, export hub and most importantly as a centre of engineering and R&D excellence. Our presence here has grown from 1,000 employees in 2002 to more than 10,000 today. Honeywell has five manufacturing facilities and more than 20 other locations across the country with employees in 50 cities. We look forward to continuing our growth in India and building our capabilities here."

Honeywell is well positioned in key growth areas including aerospace & defense, public safety & security and infrastructure development. Honeywell Technology Solutions (HTS) – the company's global R&D and innovation group – employs 6,000 engineers and is headquartered in Bangalore with additional centers in Hyderabad and Madurai, as well as internationally in China and the Czech Republic.

According to Dr. Krishna Mikkilineni, President, Honeywell Technology Solutions, "India's intellectual capital is a competitive advantage. Our team of engineers is working on developing critical technologies for global and Indian customers ranging from safe landing systems for aircraft to security solutions for the home to high-end city surveillance and critical infrastructure protection solutions. Honeywell is building a world that is safer and more secure, more comfortable and energy efficient, more innovative and productive."

The Honeywell Nobel Initiative is a program where Honeywell ties up with prestigious educational institutions across the world to connect Nobel laureates with the student community through a live Nobel Laureate Lecture series.

Students get to interact with the Nobel Prize winning laureates in Chemistry and Physics as part of this initiative, which is aimed at spreading science and math education awareness among the student community.

February 23-24, 2009 witnessed the Noble Laureate for Physics, **D Osheroff**, delivering lectures and interacting with hundreds of students of the Cummins College of Engineering for Women.

Faculty Engagement Programs

Honeywell's faculty engagement program aims to keep the academia updated with industry needs through curriculum improvement and short-term refresher courses. The HTS' way of partnering with the teaching community also includes short-term faculty development programs and time-out at one of the HTS facilities, working closely with the Honeywell Technology Specialist Group.



University Relations Day

The **University Relations Day** was held on Friday, March 6, 2009 at HTS Bangalore to forge better bonding between HTS and the academia and also to appreciate and celebrate the contribution of students who are pursuing their internship with HTS. The half day program was flagged off by an industry – academia interaction, where HTS leaders, professors and HODs of our partner universities deliberated their mutual needs in terms of collaborative research, student mentoring, faculty engagement, to mention a few. The event was formally inaugurated by the HTS President.

The demos and innovations by interns attracted the faculty and HTS leaders and employees. This was followed by a lab tour for the visiting faculty from various universities. Infotainment activities ensured lighter moments and the event concluded with the award distribution ceremony.

Student Mentoring Program

Students from the Jawaharlal Nehru Technological University, Kakinada, visited Honeywell for an industry visit in mid March. An expert session on Project Management gave them an overview of Project Management and the challenges involved, preparing them for their academic projects, internships and with one more aspect for beginning their careers.

Workshop on Automation and Controls

Honeywell conducted a workshop on Control Systems at the Annual Festival - Engineer 2009, of NITK, Surathkal. Experts from Honeywell held one full day work shop on Control systems in Aerospace and Process Automation fields. On another front, the Technology Specialists evaluated technical contests in the 10th anniversary celebrations of VTU in Mahaveer Jain College of Engineering. A Honeywell stall also attracted students and faculty alike. More than 6000 people came to know more about Honeywell's contribution to building a world that's safer and more secure, more comfortable and energy efficient and more innovative and productive.

Honeywell Launches First Ever Wireless Sensor for Theft Protection



Honeywell's first ever wireless sensor for theft protection, the 5870API Wireless Asset Protection Sensor, is an ideal way to guard against theft in both residential and commercial security applications.

The new sensor easily attaches to valuables within a home or business, such as paintings, flat screen TVs and other electronics, family heirlooms, safes and office equipment.

[Read more](#)

Honeywell Technology Enables Cell Phone Use During Flight



Honeywell has provided upgraded satellite communications equipment to Malaysia Airlines to allow passengers to use mobile phones and personal digital assistants (PDAs) while on selected Malaysia Airlines flights as part of a pilot program through mid-2009.

Passengers can use their mobile and data phone services while the plane is in the cruise phase of flight without impacting aircraft systems and ground telecommunication networks.

[Read more](#)

Honeywell Takes the Guesswork Out of Green With its Renewable Energy Scorecard

Honeywell has developed a first-of-its-kind selection tool that quickly provides customers with the data to make an informed buying decision. Unveiled at the annual Honeywell Users Group for Buildings conference, the **Renewable Energy Scorecard™** analyzes the variables for any given location to pinpoint the technology with the most significant environmental and economic drivers.



The tool looks at six proven renewable technologies, including solar, wind, biomass and geothermal. And it provides a simple payback for each. So it not only highlights the renewable resource with the greatest potential, but also provides an accurate financial forecast derived from calculating tax implications, rebates, subsidies and other incentives.

[Read more](#)

Honeywell Named One of World's Most Admired Companies by Fortune Magazine

Honeywell has been selected as one of the Most Admired Companies in the world by Fortune magazine. For 2009, Honeywell was ranked number three in the aerospace and defense industry category, moving up from number five last year. Fortune surveyed more than 15,000 top executives, directors and members of the financial community.



Technology Corner

The emerging era of Telematics



“Telematics does open up huge opportunities to offer new services in remote locations where the physical connectivity and reach is quite weak due to infrastructure limitations (Inadequate roads and rails).”

Information Technology has been driving performance and productivity gains for businesses through business process improvements, digitization and optimization.

The emerging era of Telematics or integrated ICT (Information and Communication technology) can create an exceptional value for Enterprises by enhancing products and services that they deliver to their customers worldwide. Enterprises lose track of their products once they ship them out of their docks. They rely on paper records, field service engineers, sales reps or customers to let them know how well the product is used and performs. Typically the feedback cycle is longer or equivalent to the life cycle of the product. The need for product design improvements is realized post a malfunction or failure that leads to a fatal accident or disaster.

New emerging concepts like “Telematics” or “Integrated ICT” are helping businesses track their products and support them with spares and repairs, providing enhanced in-vehicle security and communication capabilities, and creating products that provide feedback on their usage and performance for improved design. This enabling concept is helping Enterprises to respond faster to customers and also allowing them to identify new product and services opportunities. It is helping them enhance their value proposition to customers and build a smarter products and services ecosystem.

This has become a reality with the advancements and maturity of technologies like miniaturized sensors, ever decreasing computing cost, wireless technologies, and evolving standards in the area of ICT and the Internet.

What are some of the key features of this technology?

Telematics or Integrated ICT technologies enable “Sense,” “Analyze” and “Respond” capabilities, allowing companies to gain insights into the usage of their products.

Sense: Using sensors that measure pressure, vibration and temperature, etc. the condition/status of the products/equipment can be known. For example, it becomes easy to check whether a residential security system is off or on, or if a segment on a pipeline is exceeding pressure thresholds.

Analyze: It is possible to leverage advanced diagnostics, prognostics and analytical models to detect and analyze issues and provide appropriate solutions.

Respond: Integrating with logistics or back-end systems enables optimization, provides real-time/near real-time analysis and solution approaches for quick decision making and appropriate response.

Application of Telematics and its relevance in the market place

Forward looking enterprises are linking their information systems with physical assets, products and devices to proactively sense and respond to customer needs.

- Telematics data mined from vehicles are used to detect systemic design flaws and eliminate them in future designs.
- Real-time sensor data from aircrafts can be fed to suppliers so they can proactively redesign problematic parts.
- Predictive analytics are used to spot early warning signs in the daily engine performance data collected from its planes.

Remote monitoring, and Equipment/Vehicle health monitoring has matured to a state where the miniaturized and cost effective sensors, Internet and wireless technologies, will enable products/vehicles to have a unique identity (Potentially Products with IP addresses) and seamlessly connect over a network in the near future. This will open up new opportunities for delivering exceptional value to customers in the area of safety and security, remote diagnostics, Navigation, Onboard Infotainment, Remote Healthcare, Location bases services (Traffic), Fleet Management, Energy Conservation, etc.

How it adds up for the Indian Market

In the Indian Market, the initial adoption will depend on cost barriers, government regulations and the maturity of standards. Telematics, however, will open up huge opportunities for operator to offer new services in remote locations where the physical connectivity and reach is quite weak due to infrastructure limitations (Inadequate roads and rails). Increasing telecommunication coverage and its expanding reach to the remotest of remote regions in India, will enable enterprises to offer new products and services, leveraging the power of telematics.

If the critical factors are taken care of, we can see a huge transformation in the services space through adoption in the areas of Government, Defense establishments, Booming Airline and MRO markets (in areas such as Vehicle Health Monitoring, covering Engines, APUs and Avionics Equipment), Retail and Automobile Industries (Plant Control and Monitoring, Predictive maintenance), Energy (Pollution control, energy consumption) and other industries.

Market Trends and Potential Opportunities

In the not-too-distant future, all products (vehicles like aircrafts, automobiles, locomotives, ships, etc..) will be equipped with real-time telemetry systems as sophisticated as those used today for new aircraft development and flight testing. These telematics systems will deliver a constant stream of information to monitor both humans and computers — on the ground. This will allow appropriate, real-time, response actions, which, in turn, will deliver significant business value to all stakeholders. Over time, businesses will gain new insights based on performance patterns and usage of their products. Archives of operational patterns and maintenance intervals will be used to model and predict performance. The information will also be used to optimize future product designs or create new offerings.

Telematics marks a fundamental shift in businesses, where they will move from a product-centric view to a new and transparent customer/service centric view that will enable them to build a smarter products and services ecosystem that will serve users better.

Now that you have had glimpses of Honeywell's university relations, to learn more, log on to <http://www.honeywell.com/sites/htsl/universityrelation.htm>

For expressing thoughts and feedback, write to HTSL-Communication@honeywell.com