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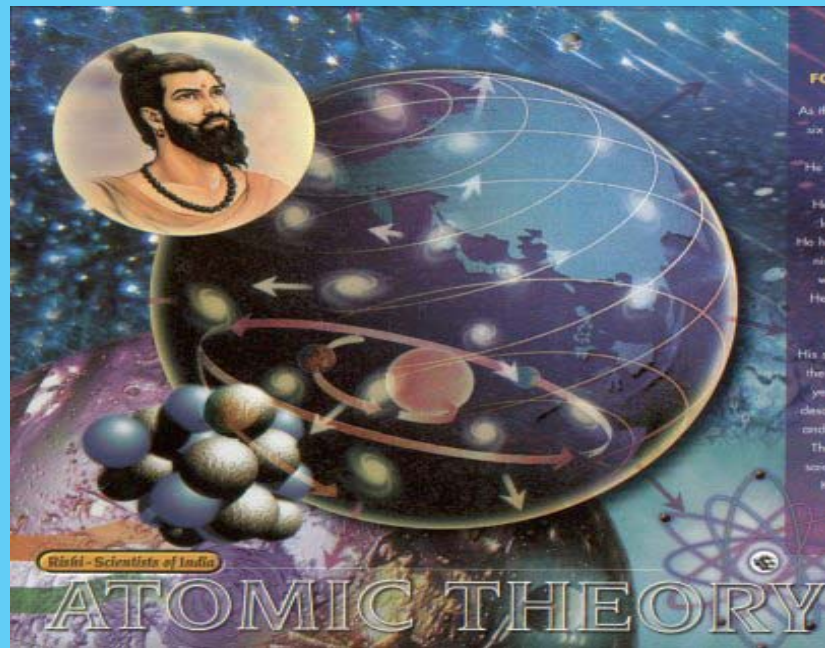
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## FOUNDER OF ATOMIC THEORY

As the founder of " Vaisheshik Darshan " - one of six principal philosophies of India - Acharya Kanad was a genius in philosophy. He is believed to have been born in Prabhas Kshetra near Dwarika in Gujarat . He was the pioneer expounder of realism, law of causation and the atomic theory. He has classified all the objects of creation into nine elements, namely: earth, water, light, wind, ether, time, space, mind and soul. He says, "Every object of creation is made of atoms which in turn connect with each other to form molecules..". His statement ushered in the Atomic Theory for the first time ever in the world, nearly 2500 years before John Dalton . Kanad has also described the dimension and motion of atoms and their chemical reactions with each other. The eminent historian, T.N. Colebrook , has said, "Compared to the scientists of Europe , Kanad and other Indian scientists were the global masters of this field."

## READER'S RESPONSE

**The editorial team invites your views, suggestions, to the News about Members Column and contributions to the e-news.**

## Civil aviation safety advisory council set up

The Government has set up a Civil Aviation Safety Advisory Council under the Chairmanship of Director General of Civil Aviation in order to strengthen aviation safety environment. The council comprising 28 members drawn from various aviation sub-sectors such as airlines (both public and private), flight operations, air worthiness, operations etc has been constituted for one year. In addition, representatives from ICAO, FAA, Boeing, Airbus and other organisations will be invited as special invitee as per requirement to participate in the meetings of CASA. The Council will be advisory in nature and advise DGCA in areas of operations of aircraft – (commercial and general aviation), aerodromes and heliports, air navigation services, air operator certification, airworthiness of aircraft including maintenance, certification of aeronautical products, and human performance and training, an official release said here. It would also review the existing regulatory framework and give recommendations to further strengthen the aviation safety. Besides it will also develop, examine and recommend incorporation of best regulatory practices, recommend short, medium and long-term measures for safety enhancement and reflect public views on aviation safety matters.

**Source:** *Hindu Business Line*

## DGCA likely to get more power

The government is considering giving more powers to the Directorate General of Civil Aviation (DGCA) and mulling setting up of an independent safety board to separate the role of an aviation regulator and investigator. The government move comes with aviation safety back in focus after the Mangalore air crash on May 22 in which 158 persons were killed and a few incidents involving flights in the recent weeks. Civil aviation minister Mr Praful Patel told reporters that government is considering establishing an independent safety board on the lines of the US National Transportation Safety Board (NTSB) in a bid to separate the role of a regulator and an investigator. After addressing the first meeting of the Civil Aviation Safety Advisory Council (CASAC), set up within a week of the Mangalore air crash, he said, "Government will definitely consider granting full autonomy to the DGCA and empower it to independently carry out its work as a regulator of Indian aviation". If needed, the government would bring in a "suitable legislation" to turn DGCA into a fully autonomous body with overriding authority on all aviation regulatory matters, he said.

**Source:** *Times of India*

## Tejas test flies over cityscape

The limited series production of Light Combat Aircraft (LCA) Tejas was test flown over Bangalore skies, marking the first flight of the LCA in a configuration that will be delivered to the Indian Air Force. According to a press statement, the first flight of limited series production (LSP-4) of Tejas took off from HAL, Bangalore airport morning and landed 40 minutes later. "In the sortie, test pilot Group Captain Suneeth Krishna flew the aircraft to an altitude of 11 km and went supersonic, touching 1.1 Mach speed with test director, Group Captain Mr D. Chakravorty guiding him from the telemetry facility of the National Flight Test Centre." For all first flights of prototype aeroplanes, it is a standard operating procedure to have another aircraft chase the aircraft under test. In this case, the chase aircraft was flown by the Chief Test Pilot of NFTC, Gp.Capt. R.R. Tyagi with test director Wg.Cdr. Prabhu. This milestone is another step in the direction of releasing the

Tejas to IAF service scheduled for December 2010, the press statement added. Speaking on the occasion, Programme Director of Aeronautical Development Agency P.S. Subramanyam said that the Tejas team is now heading to central India to carry out hot weather trials.

**Source:** *Hindu*

## Air University likely in Bangalore

Bangalore is likely to get an Air University, which will offer a wide range of courses related to aviation such as flying, aerospace engineering, air traffic control, airport infrastructure and management, among others. Disclosing this during a session on "Aerospace Opportunities in Karnataka" at Global Investors Meet-2010 here, Commissioner for Industries Mr Raj Kumar Khatri said the State government was working with the Confederation of Indian Industry (CII) Karnataka State Council in this regard. Chairman of the Council Aroon Raman said that the CII was keen on establishment of a university dedicated to aviation industry and discussions are on with the Visvesvaraya Technological University on the modalities of establishment. Air Marshal T.J. Master (Retired) of the CII-Karnataka, who is co-ordinating with the Government on establishment of country's first Air University, told The Hindu that a few countries in the world like the U.S., Australia, China have such universities offering courses dedicated to the aviation sector.

**Source:** *Hindu*

## Isro images help map area of Gulf of Mexico oil spill

It's the kind of intervention Isro loves to make. For the general good. It has shot images of the Gulf of Mexico oil slick to help map its breadth, direction and intensity. And earned appreciation from its US counterpart Nasa for the quality of its images. Isro's satellite moved over the Gulf of Mexico soon after the explosion of British Petroleum's oil rig just off the coast of Louisiana on April 22. Isro's Oceansat-2, meant to capture ocean dynamics, captured images of the slick covering overall area of 1,420 km in breadth around the slick, the rig and US coastlines of Louisiana and New Orleans. The images have been captured from a distance of 360 metres in other words with spatial resolution of 360 metres. Senior Isro officials told TOI: "Oceansat-2 travelled over the Gulf of Mexico soon after the oil spill. Two US stations received and recorded images put out by the satellite. Isro also received and recorded the images on its own servers and then transferred the same to web servers accessible to the US stations and Nasa. The images were made use of by US scientists for analysis of spread and extent of oil spill." US scientists at Nasa and National Oceanic and Atmospheric Administration (NOAA) wrote back a message of appreciation to Isro: "Images of the oil slick turned out to be great. We have been able to map the product image." While the oil spill has a circumference of 600 miles or 970 km, Isro images cover area well beyond that reaching almost the US coastlines.

**Source:** *Times of India*

## Pillai suggests joint Indo-German initiatives in aerospace

India has extended an invitation to Germany for joint collaborations in aeronautical engineering and space exploration. If the two countries work together they can establish their supremacy, according to chief of the BrahMos project Mr Sivathanu Pillai. Speaking at the seminar during the ILA Berlin Air Show 2010 in Germany Dr. Pillai said, "The time has come for joint ventures between India and Germany in the fields of aeronautical engineering, space exploration mission and developing hypersonic reusable vehicles." He gave the example of success achieved by the BRAHMOS supersonic cruise missile project carried out jointly by India and Russia. He expressed that India with growing economy could emerge as one of few countries with an ambitious space programmes and European countries could be part of it. He added that both the countries have core competencies in the fields of aeronautics and space sciences and time is right for them to work together to surpass other players in the fields.

**Source:** Stock Watch

## NAL scientists pin Saras crash on faulty engine

Concept, overall design and structure of the Saras aircraft is fine. Faulty procedure and sequence of relighting engine mid-air caused the Saras crash in March 2009 and there is need to correct the procedure and sequence for future flights of the aircraft, National Aerospace Laboratories (NAL) scientists have said in a report. While accepting that engine relight procedure was incorrect, an NAL report has said the problems in the procedure go back to the original equipment manufacturer. NAL scientists told TOI: "The cause of the accident is attributed to incorrect relighting procedure in the DGCA report. It is clarified that the procedure adopted is as per the Engine OEM's operating instructions. The procedure given by the OEM is ambiguous. On hindsight, CSIR-NAL accepts that it should have consulted the propeller designer." In simpler terms, the aircraft would not have crashed had the right procedure to relight engine been adopted. There is a sequence in relighting the engine and in case a particular step in the sequence is missed or not effected, it could cause valuable loss of time to the pilots leading to disaster as the aircraft would hurtle downwards with the alternative engine having been switched off in advance. With one engine off, and the other being relighted, the aircraft depends on the latter and if the latter does not relight for any reason, it could lead to a crash as happened with Saras. Flying the aircraft on one engine with the other switched off and relighting one engine mid-air while the other is switched off is a compulsory condition for certification of the aircraft. "There was no evidence of any defect or malfunction due to maintenance. Also, there was no in-flight structural failure leading to the accident. Also, there was no malfunctioning of engine system," scientists said indicating a difference between engine malfunction and engine relight. On design activities being outsourced, scientists have said that the company, M/s ADES, consists of senior retired officials from ARDC of HAL with decades of valuable experience in aircraft design and development. "The team only supports the CSIR-NAL team by working closely with them on site. All responsibilities lie with the officials of CSIR-NAL. ADES is also an approved design organisation by DGCA for providing such a support to CSIR-NAL."

**Source:** Times of India

## EADS set to open third research centre in B'lore

Bangalore is set to have another aerospace research centre from the stables of the European Aeronautic Defence and Space Company (EADS). While talk about this has been doing the rounds for a while, the company said it's ready to open the EADS Defence and Security (EADS-DS) competence centre. It was announced at the ongoing Berlin air show. The centre will come up initially at the Airbus Engineering Centre on Old Madras Road. It'll be the third EADS facility here — the other two being Airbus centre and EADS Research and Technology Centre. The new one will be a product development centre with products for global and European markets and eventually the Indian market too. It will effectively be part of the global research & product development chain of the parent EADS. The centre will start with about 15 engineers and scale up to 250.

**Source:** Times of India

## Air India to set up maintenance base in UAE

The recent Air India Express crash in Mangalore has hastened a slew of measures to improve the safety and efficiency of Air India flights bound for Gulf destinations. Addressing journalists, Mr Arvind Jadhav, visiting Chairman and Managing Director (CMD) of the National Aviation Company of India Limited (NACIL), said a fully equipped ground engineering set-up was now being permanently established in the United Arab Emirates to ensure timely and efficient maintenance of aircraft. "All the required inventories would be stored at this base," Mr. Jadhav said, adding that the dependence on Mumbai for back-up support would be minimised once the facility was up and running by the end of July.

**Source:** Hindu

## Space probe finds rare dust

A Japanese space probe has landed in the Australian outback after a seven-year voyage to an asteroid, safely returning a capsule containing a unique sample of dust, Japanese mission controllers said. The Hayabusa probe blazed a spectacular trail over Australia before slamming into the desert at around midnight local time, ending a journey to the near-Earth asteroid Itokawa that began in 2003. A spokesman for the Japan Aerospace Exploration Agency (JAXA) said the first image available indicated the capsule carrying the precious cargo had survived. After sunrise, Australian defence officials flew local Aboriginal elders to the site by helicopter to verify that no sacred sites had been damaged. A defence spokesman said the indigenous leaders had cleared the way for the capsule to be recovered later on Monday.

**Source:** Deccan Herald

## CSIR to woo NRI scientists

Seeking to attract best minds in science for globally competitive research, an ambitious project by CSIR to woo NRI scientists is all set to take-off. "Prime minister Dr Manmohan Singh has approved the selection of 18 scientists for the post of 'Outstanding Scientists', as part of our STIO project," Mr Samir Brahmachari, Director

General Council of Scientific and Industrial Research (CSIR) said. However, he refused to divulge the names of the scientists who would hold position equivalent to Director of National laboratories without administrative responsibility, citing logistical reasons. Brahmachari said, the selected scientists would lead cutting edge and mission projects by achieving synergy of resources spread across CSIR's 37 laboratories nationwide and also mentor young researchers. The CSIR hopes that the 'Outstanding Scientists' would be young dynamic leaders of science who would lead and build centres of excellence in national laboratories. They may spearhead research in their chosen frontier field in any of the constituent laboratories of CSIR while continuing to hold their existing positions abroad. CSIR would provide to the selected scientists appropriate research grants laboratory space and opportunity to participate in its flagship programmes.

**Source:** *Indian Express*

### Naval LCA to roll out on July 6

The first Naval Light Combat Aircraft is scheduled to roll out from HAL ARDC design hangar here on July 6. The LCA (Navy) is the first indigenous effort to build a complete air element

for the Indian Navy. The aircraft is fitted with the GE-F-404-IN20 engine and is specifically designed for ski jump take off and arrested landing, with high landing loads compared to its Air Force counterpart. By initiating this venture and fostering it, the country has shown great confidence in the competence of its scientists and engineers, an official release here said. Chief of Naval Staff Admiral Nirmal Verma will be the chief guest at the function that is expected to be attended by senior officials of PSUs, private industries and institutions which have supported the programme during its development phase. The event 'roll-out' is a significant milestone when the aircraft is brought out of the building hangar (where the aircraft is actually assembled part by part), declaring that it is ready to undergo the phase of systems integration tests leading to ground runs, taxi trials and flights. "The main aim of LCA (Navy) NP1 and its Fighter Counterpart (NP2) is to prove itself with its technologies incorporated as a formidable platform, and to be a suitable replacement to the aging fleet of Sea Harriers at a later date in a derivative MK2 configuration, with a higher thrust engine and optimised mass.

**Source:** *Hindu*

### NAL plans new design for its small aircraft

The proposed regional transport aircraft may get dual engines to fly 90-110 passengers on short-haul feeder routes. Facing tough competition, designers at the National Aerospace Laboratories (NAL) are mulling over a change in the configuration of the so-called regional transport aircraft (RTA) they plan to build to run on short-haul feeder routes. The RTA was envisaged as a 70-90 seat civilian aircraft powered by a turboprop engine a gas turbine engine used to drive a propeller. But NAL is now thinking of using a jet engine as well and increasing its capacity to 90-110 passengers. "We are looking at an aircraft (where) both turboprop and turbojet can be used," said Dr Samir Brahmachari, director general of the Council of Scientific and Industrial Research (CSIR), India's largest public-funded research agency. NAL is the CSIR lab for aerospace technologies. A 15-member committee for national civil aircraft development held its first meeting in Bangalore, and set a one-year deadline for a feasibility study for the Rs2,500 crore plane project. Flight plan: CSIR director general Dr Samir Brahmachari. A 15-member panel has set a one-year deadline for a feasibility study for the project. Ramesh Pathania/Min. This will then be submitted to the government for approval. Developing and certifying the aircraft will take another six years after that. Planes made by Brazil's Embraer and Canada's Bombardier Inc. currently dominate such routes. While the Indian project is yet to get off the ground, Russia's Sukhoi Co. and China's China Aviation Industry Corp. are also building similar aircraft. V. Sumantran, who will be part of a two-member panel to attract private partners for the project in its design phase, said India was not too late to move.

**Source:** *Livemint.com*

### DRDO to keep away from foreign arms deal

THE government has ordered a complete revamp of the defence scientific establishment but has kept the weapon technology developers out of foreign arms deals. The Ministry of Defence has rejected one of the key proposals of a reform panel - Mr Rama Rao committee - calling for enhancing the

involvement of research and development team in the acquisition process. It means that no scientific input is required for buying weapons for the Army, Air Force and the Navy from abroad. The committee had noted that over the years, the role of Defence Research and Development Organisation (DRDO) in the acquisition process has been diluted. Their participation was reduced to the extent that they were restricted to give just 'yes or no' kind of inputs. The Defence Secretary, who studied the recommendation, felt that the status-quo should be maintained as it was felt that the DRDO was represented well in the procurement process.

**Source:** *Indian Express*

### Indo-Israeli missile successfully test-fired: DRDO chief

Israel has successfully test-fired the Indo-Israeli Long Range Surface to Air Missile (LR-SAM), a media report said. "The 70-km missile was fired at an electronic target and met with its initial objectives," India Today quoted DRDO Chief Dr Vijay Saraswat as saying on Friday. India will conduct the second test of the missile, also called as Barak-2 by next year. The missile will be integrated by Indian technicians. According to the English daily, the three guided missile destroyer of the Project 15A class will be equipped with the missile after their commission in Indian Navy by 2012. "We will deliver the system to the armed forces in 2013. I am very confident it will be an astounding success," Dr Saraswat added. The Defence Research and Development Organisation (DRDO) have earlier signed a contract with Israel Aerospace Industries (IAI) in 2006, to jointly develop a Long Range Surface to Air Missile (LRSAM) system for the Indian and Israeli Navy.

**Source:** *Brahmand.com*

## From Chetaks to Light Combat Helicopter

The Light Combat Helicopter was dedicated to the nation in the presence of the vice chief of air staff, Air Marshal P K Barbora, secretary of defence production and the chairman of HAL. It has indeed been a long journey for HAL from building different variants of the ubiquitous Alouette. It built under licence from France, the Chetaks and the Multi Role Anti Sub- presmarine Torpedo Carrying Helicopter (MATCH) for the navy and the air force, the Cheetah for the army and some helicopters for civil operators. It is highly creditable that the single-engine Chetaks of French-origin have rendered yeoman service for over four decades in many roles. The navy and the coast guard operated the Chetaks with wheels and the army and the air force operated the Chetaks with skids or floats depending on the terrain over which they were used. The services used them mainly for search and rescue and for logistic support.

**Source:** *Indian Express*

## DRDO's laser-guided bombs display accuracy

Aeronautical Development Establishment (ADE), a premier Defence Research and Development Organisation (DRDO) aeronautical lab based in Bangalore has successfully designed, developed and carried out the user trials of laser-guided bombs at Pokhran with the participation of the users, IAF .

A DRDO release said the flight tests had demonstrated the accuracy, reliability and performance of these precision air launched bombs. The tests were conducted after extensive, simulation, design validation, ground experiments followed of flight evaluation. A number of high tech components have also been developed industries for this advanced weapon package. IAF, the release said, is expected to upgrade a large number of unguided bombs to this standard based on the results seen.

**Source:** *Deccan Herald*

## Nasa scientists 'find' evidence of life on Saturn's moon

Researchers at NASA space agency believe they have discovered vital clues that appeared to indicate that primitive aliens could be living on Saturn's moon Titan. Data from Nasa's Cassini probe has analyzed the complex chemistry on the surface of Titan and detailed the research in two separate studies. The first paper, in the journal *Icarus*, shows that hydrogen gas flowing throughout the planet's atmosphere disappeared at the surface. This suggested that alien forms could in fact breathe. The second paper, in the *Journal of Geophysical Research*, concluded that there was lack of a certain chemical on the surface. Scientists believe it has been possibly consumed by life. Researchers had expected sunlight interacting with chemicals in the atmosphere to produce acetylene gas. But the Cassini probe did not detect any such gas. Mr Chris McKay, an astrobiologist at Nasa Ames Research Centre, at Moffett Field, California, who led the research, said : "We suggested hydrogen consumption because it's the obvious gas for life to consume on Titan, similar to the way we consume

oxygen on Earth."

**Source:** *Indian Express*

## Eurojet offers dual-use engine for LCA

Eager to join hands with the Defence Research and Development Organisation (DRDO) and its associates in the development of India's Light Combat Aircraft 'Tejas-Mark II,' the Eurojet consortium is offering its engine that could be tweaked to work on its naval version. "We are offering two variants of the EJ200, bidding for the India's LCA Mark-II which can be altered through a software change to suit the requirements for the naval version of the LCA," Eurojet Vice-President Mr Sales Paul Hermann told a group of journalists here. The Aeronautical Defence Agency (ADA), the nodal agency for the design and development of the LCA under the overall supervision of the DRDO, had sought a proposal from the EJ200 and the American GE414 engine. The order will be initially for 99 engines with 10 of these in ready-to-use condition. There is an option for additional 49 engines order.

**Source:** *Hindu*

## Rafale fighters for Indo-French exercises

The French Air Force may field its latest Rafale fighters for an Indo-French military exercise in India next year. The Rafale's presence in such a setting would come at a time when competition for IAF's mammoth MMRCA (medium multi-role combat aircraft) contract, in which the French fighter is participating, would enter the final lap. An Air Force officer said talks are under way for the next Indo-French exercise, and French officials have "expressed their desire to bring the state-of-the-art Rafale aircraft for the next Indo-French air exercise" to be held in India. The reports of the move come as the two sides, along with Singapore, enter the final stages of the exercise 'Garuda 2010', presently under way at Istres Air Base in France.

**Source:** *Times of India*

## N-capable Prithvi-II tested successfully

The Strategic Forces Command (SFC) successfully carried out a test-firing of Prithvi-II, the nuclear capable indigenous ballistic missile, off the Orissa coast. The tri-service SFC looks after most of the strategic weapons that can deliver nuclear warheads. Prithvi-II took off from the Integrated Test Range at Chandipur, some 15 km off the Orissa coast, at 6.50 am. "The trial of Prithvi-II, conducted by the Army, has gone through nicely," ITR director Mr SP Dash told reporters. The user trial was carried out by military officers who are part of the SFC, and was primarily meant to get them to acquaint themselves with the missile. SFC had last carried out a test-firing of Prithvi-II on March 27. Prithvi-II, fired from a mobile launcher, has a maximum range of 350 kilometres, and can carry a payload of 1,000 kg. It's a single-stage missile that uses liquid fuel. Prithvi-II is an advanced version of Prithvi, the first missile developed under the Integrated Guided Missile Development Programme.

**Source:** *Times of India*

## EADS to shift some Eurofighter development projects to India

European Aeronautic Defence and Space Company NV (EADS) would transfer some of the development projects of its advanced fourth generation Eurofighter Typhoon or other military aircraft to India soon, a top company official said. "We will transfer some of our development projects, which we have in Europe for Eurofighter or other military aircraft to India, where we have set up a military research and development (R&D) centre in Bangalore," EADS chief executive (defence & security) Mr Stefan Zoller told IANS here. The Netherlands-based European aerospace corporation was created in 2000 by merging Aerospatiale Matra of France, DaimlerChrysler Aerospace AG (DASA) of Germany (excluding the MTU engine business) and Construcciones Aeronauticas SA (CASA) of Spain. Asserting that the consortium's R&D activities were independent of its bid for the 126 medium multirole combat aircraft (MMRCA) for the Indian Air Force (IAF), Zoller said leveraging the high-skilled Indian talent and the potential of the emerging Indian aerospace industry would lead to developing new technologies and creation of jobs. "If we win the IAF order, the development of newer versions of Typhoon for India and global market will result in creation of about 20,000 direct jobs, as the bid involves the winner re-investing 50 percent of the deal in India's defence manufacturing industry," Zoller said at the 100th Berlin international air show.

**Source:** THE ECONOMIC TIMES

## Finally, global airlines see silver lining

With the accelerating pace of the global economic recovery bringing a renewed surge in demand for air travel, an industry body predicted that the world's airlines would report profits of \$2.5 billion this year, a dramatic improvement from the steep losses of the past two years. But while air traffic is growing a pace with economic growth in most regions, the weakness of the recovery in Europe, combined with the effects of a weaker euro and the disruptions caused by the

eruption of a volcano in Iceland this spring, will leave European carriers deeply in the red until at least 2011. The International Air Transport Association, based in Geneva, had been forecasting a 2010 global loss of \$2.8 billion as recently as March, following a loss of \$9.9 billion in 2009. The industry lost a collective \$16 billion in 2008. It was last in the black in 2007, when it reported a profit of \$12.9 billion. "The global economy is recovering from the depths of the financial crisis much more quickly than could have been anticipated," said Mr Giovanni Bisignani, the IATA's director general and chief executive. With demand for tickets growing almost twice as fast as the number of available seats, fares are increasing significantly, the association said.

**Source:** Economic Times

## 40 Indian airports operate without licence

Insurance companies may not be liable to pay compensation in case of an accident in over 40 airports across India as only nine of the more than 50 operational airports in the country have the mandatory licences issued by the Director General of Civil Aviation (DGCA). Airports without a licence include those at Chennai, Kolkata, Coimbatore, Madurai, Pune, Ahmedabad and Thiruvananthapuram. In fact, such non-compliance could prove costly for Indian aviation, which the US Federal Administration (FAA) has already threatened to downgrade from the current top billing to sub-Saharan Africa levels. The last airport to see its licence lapse was Bajpe airport in Mangalore which had a provisional licence at the time of the Air India Express crash that claimed 158 lives on May 22. Its licence expired on June 15. Not having a licence means the airport does not conform to Indian Aircraft Rules, 1937, or the International Civil Aviation Organisation's safety standards.

**Source:** Times of India

## DRDO bags award

The Defence Research and Development Organisation (DRDO) labs here bagged many awards at the DRDO National Awards presented recently in New Delhi. The DRDO Award for Performance Excellence was bagged by Dr UK Revankar, Director, Defence Avionics Research Establishment DARE), and his team, and VS Mahalingam, Outstanding Scientist & Director, with his team at Centre for Artidal Intelligence and Robotics (CAKR). Other categories The Scientist of The Year Award was presented to Mr P Radhakrishna, Sc 'F' Electronics& RadarDevelopment Wblishment (LRDE), Bangalore; Mr K B Venkataraman, Sc 'G' DARE, Mr Sanjay Burman, Sc 'G'CAIR, Bangalore; and Dr N Shama Rao, Outstanding Scientist Aeronautical Development Agency (ADA).

**Source:** Deccan Herald

## APACM awards

Prof. B.Dattaguru, Emeritus Professor (Retd) will be elected for APACM Award for Senior Scientists in Computational mechanics from World Congress on Computational mechanics (WCCM) and Asia Pacific Congress on Computational Mechanics (APCoM). The award ceremony is to take place during WCCM/APCoM 2010 at Sydney on July 22, 2010.

## Royal Aeronautical Society – Conference and Events

### RAes Aerodynamics Conference 2010

#### Applied Aerodynamics: Capabilities and future Requirements

**Date:** Tuesday 27- Wednesday 28 July, 2010

(Following the UK Farnborough International Air Show (19 – 25 July 2010))

**Venue:**

University of Bristol,  
Queens Building,  
University walk,  
UK

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