<u>Newspaper Clips</u>

April 17, 2011

Times of India ND 17/04/2011

P-23

Catch a falling star

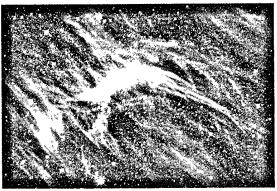
Nasa's Explorer scans cosmos, posts spectacular photos on the net

Los Angeles: National Aeronautics and Space Administration (Nasa) has released a trove of data from its sky-mapping mission, allowing scientists and anyone with access to the internet to peruse millions of galaxies, stars, asteroids and other hard-to-see objects.

Many of the targets in the celestial catalog released online this week have been previously observed, but there are significant new discoveries. The mission's finds include more than 33,000 new asteroids floating between Mars and Jupiter and 20 comets.

Nasa launched the Wide-field Infrared Survey Explorer, which carried an infrared telescope, in December 2009 to scan the cosmos in finer detail than previous missions. The spacecraft, known as WISE, mapped the sky one-and-a-half times during its 14-month mission, snapping more than two million images from its polar orbit.

The spacecraft's ability to detect heat glow helps it find dusty, cold and distant objects that are often in-



HEAVENLY SHOW: This undated image taken by Nasa's WISE telescope shows a massive star ploughing through space dust

visible to regular telescopes. The batch of images made available rep-resents a little over half of what's been observed in the survey. The full cosmic census is scheduled for release next spring.

"The spectacular new data just released remind us that we have many new neighbours," said Pete Schultz, a space scientist at Brown

University.
University of Alabama astronomer William Keel already started mining the database for quasars - compact, bright objects powered by super-massive black holes. "If I see a galaxy with highly ionized gas clouds in its outskirts and no in-frared evidence of a hidden quasar, that's a sign that the quasar has es sentially shut down in the last 30.000 to 50,000 years," Keel said.
WISE ran out of coolant in Oc-

tober, making it unable to chill its heat-sensitive instruments and observe faraway objects. It spent the next four months seeking out near-Earth asteroids and comets that should help scientists better calculate whether any are potentially threatening. The spacecraft went into hibernation in February

The mission, managed by Nasa's Jet Propulsion Laboratory, was hundreds of times more sensitive than its predecessor, the Infrared Astronomical Satellite, which launched in 1983 and made the first all-sky map in infrared wavelength, AP

Business Line ND 17/04/2011 P-16

Galaxies on the Net

Data from NASA's sky-mapping telescope released

Associated Press

Los Angeles, April 16

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In this undated image released by NASA taken by the WISE telescope, shows a massive star plowing through space dust. The result is a brilliant bow shock, seen as a yellow arc. - AP

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Times of India ND 17/04/2011 P-23

Why intake of salt raises your blood pressure

cientists have found that salt intake makes it harder for the body to juggle BP regulation and temperature simultaneously. A team led by Robert Blankfield at Case Western Reserve University and Ellen Glickman at Kent State found that salt and water ingestion lowered body temperature more than just ingestion of water. Body temperature also decreased more in individuals who are salt resistant than those who are salt sensitive. "Salt sensitive individuals maintain temperature equilibrium more effectively but this also increased their BP," Blankfield says.

Business Standard ND 17/04/2011

IIM-Ranchi to start parallel MBA courses

SWATI GARG Kolkata, 16 April

INDIAN Institute of Management-Ranchi (IIM-R) will begin parallel MBA courses, with a focus on specialisation in data analytics, human resource management and banking and finance management from June, 2012.

IIM-R is eighth in the now 50-year old history of Indian Institutes of Management (IIMs).

The courses, according to IIM-R director M J Xavier would serve two basic aims. First, these would aid in bringing diversity to the campus, where at present, an overwhelming majority of the students are male engineers. Secondly, it would help IIM-R establish a niche for itself as a management institute and carve out an identity within the larger IIM system.

am not going to try and force diversity in the campus. If the majority of the students who make the cut are male engineers, so be it. The parallel courses will deal with issues of diversity within the campus, while helping in the creation of courses that are relevant given the changing context," Xavier said.

The much coveted IIMs across the country currently offer a standard post graduate diploma in business management (PGDBM). The institutes had recently come under attack from critics who argue the system is exclusionary in nature and is largely skewed in favour of candidates with an engineering back-

Xavier, however, feels the need at present is for the IIM system to remodel itself in keeping with the demands of the times, and offer various courses which would be more inclusive of di-I have stated earlier as well, that I versity, rather than trying to force di-

versity within the present PGDBM pro-

"In keeping with the demands for management students across the world it is important that IIMs remodel and adapt. These courses will be a stepping stone in that direction," he explained.

Also, this would mean that at IIM-R, which is being mentored by IIM-Calcutta in its first year of operation, would not increase the student strength in the PGDBM programme beyond 60 stu-

IIM-R would also implement the concept of smart classrooms, a scheme under which, at a cost of ₹60 lakh, the institute will connect HM-Tiruchirapalli, Raipur and Rohtak.

Technologically, heightened class-rooms would connect students across the four institutes giving students across IIMs the advantage of interacting with high-profile visiting faculty.



Critics have said the IIMs are exclusionary in nature and are largely skewed in favour of candidates with an engineering background. PHOTO: BLOOMBERG

Hindu ND 17/04/2011 P-13

Narlikar declines to be part of UGC search panel

It has been set up to identify a chairperson for the Commission

Aarti Dhar

NEW DELHI: The search committee, set up by the Human Resource Development Ministry for identifying a chairperson for the University Grants Commission (UGC), has been unable to meet as one of the experts approached by the Ministry has declined the offer.

Informed sources told The Hindu that astrophysicist Jayant Narlikar has declined to be part of the committee due to "preoccupation." However, the three others approached by the Ministry – Madhava Menon and Goverdhan Mehta (both academicians) and Srinath Reddy, president of the Public Health Foundation of India (PHFI) — have agreed to be members of the committee which is expected to be notified soon.

The Ministry initiated the

process of looking for a chairperson after its hopes of an early establishment of the proposed National Commission for Higher Education and Research (NCHER) remained unfulfilled with the Bill awaiting Cabinet clearance.

The Bill envisages creation of NCHER, an overarching regulatory body that would subsume all existing regulatory bodies, including the UGC and the All-India Council for Technical Education (AICTE).

The charge of the UGC at present is with its Vice-Chairperson Professor Ved Prakash as per the UGC Act, 1956.

The Ministry delayed the search process after Professor Sukhadeo Thorat's term ended in February as it intended to introduce the NCHER Bill, 2011 in Parliament during the Budget session, but could not do so because of the ongoing turf war between the HRD

Ministry and the Ministry of Health and Family Welfare on the jurisdiction of medical education.

Meanwhile, the Health Ministry will soon issue an ordinance to extend the term of the Board of Governors of the Medical Council of India, which was created after the MCI general council was superseded following the arrest of its former president, Ketan Desai, on charges of corruption.

The MCI was superseded through an act of Parliament only for a year on the hope that the Ministry would be able to create a National Commission for Human Resource in Health—a regulatory body that would bring under its purview all councils related to health—by then. However, this too has not happened as the bill to this effect is yet to get a Cabinet clearance.

e-haher /

Saira Kurup I TNN

acteria that are able to resist antibiotics are nothing new. It's in their nature to develop defence mechanisms. What's worrying scientists and governments now are supergenes, which enable bacteria to make enzymes that entitle of antibiotics called carbapenems. Therein lies the reason for rising concern over the emergence of supergene NDM-1 or New Delhi metallo-beta-lactamase-1. But NDM-1 is not the first deadly supergene to be discovered. So what's all the fusa shoul?

pergene NDM-1 or New Delhi metallo-beta-lactamase
1. But NDM-1 is not the first deadly supergene to be discovered. So what's all the fuss about?

The earliest discovery of bacteria carrying NDM-1
seems to have been in 2006. However, the supergene only
really made headlines after "The Lancet Infectious Discases" medical journal's two recent papers linking the
bug to India. Mark Toleman, senior research fellow at
Cardiff University and co-author of the two Lancet papers, told Tol via email: "The gene has teamed up with
several other genes since it first emerged. We now know
hat some of the isolates found in New Delhi in 2006
barely give clinical resistance and are difficult to detect, which is probably one of the reasons why the Indian study that ran from 2004-2007 did not detect them.
Another likely reason is that at that time they were in
low prevalence."

Toleman and his co-authors have identified the lack of basic hygiene and unregulated use of antibiotics in India as the main reasons for the emergence of the supergene. In the April 2011 Lancet paper, the scientists claimed the supergene had been detected in samples of drinking water and seepage water collected in Delhi. This implied that NDM-1 was no longer merely a hospital-borne inflection, as reported earlier. Toleman says, "The detection was really by three methods—one uses a radio-actively labelled probe and looks for a sequence of DNA that is identical to it, this method is very sensitive. The other method is called PCR. This method basically can detect a needle in a haystack and then



Despite the patriotic arguments, Indian experts agrees that it is important to focus on India's unsafe drinking water which is contaminated with sewage in many parts of the country". There's also a need for a document on an antibiotics policy

copy the needle so many times that the haystack of straw turns into a haystack of needles. We then sequenced the DNA that was amplified and it had an identical sequence to NDM-1. We also looked inside the bacteria to find where the genes actually were. A combination of these three methods gives a very powerful proof of presence."

But few in India seem convinced, Dr Chand Wattal,

But few in India seem convinced. Dr Chand Wattal, chairperson of the department of microbiology at Delhi's Gangaram Hospital, insists that NDM-1 is not out on the streets. "It's a hospital-borne infection, not water-borne. It's an infection that can be acquired in ICUs by high-risk patients." Indian experts also object to the alleged link beween

Indian experts also object to the alleged link between NDM-1's prevalence and antibiotics use in India. "You have to read between the lines. Toleman says he's worried about the poor being exposed to NDM-1 in India. But how many of our poor can afford carbapenem injections?" asks Wattal.

P N Bhargava, founder and former director of Hyderabad's Centre for Cellular and Molecular Biology, agrees. "Over 80% of our population cannot afford antibiotics. You need a certain density of people using modern antibiotics for a superbug to emerge," he says.

Toleman concedes that "we don't know and cannot say (much about NDM-1's origin)". In an admission that Indians would probably please Indians, he adds that "it is possible it was brought to India from another country."

another country."
Both Bhargawa and Wattal question the researchers' failure to mention that NDM-1 is not the first supergene to be discovered. "The MRSA is the most prominent. In the US, there are over 20,000 deaths every year on account of MRSA infections acquired in hospitals. But they have not named MRSA—Methicillin-resistant Staphylococcus Aureus—for any country or city," points out Bhargava. He says he agrees with Indian Council for Medical Research director-general V M Katoch in that the intent behind the NDM-1 name is "mischie-

Despite the patriotic arguments, however, even Bhargava agrees that it is important to focus on India's unsafe drinking water. "We should take that part seriously. Drinking water is contaminated with sewage in many parts of the country. There's also a need for a document on an antibiotics policy".

Drinking water is contaminated with sewage in many parts of the country. There's also a need for a document on an antibiotics policy".

Prof Rajendra Prasad of the School of Life Sciences, JNU, believes that the best way forward is for India to conduct its own studies. "We have no backup data. We have nothing to throw back at them. We should take the report seriously and learn lessons rather than just react."

Just react."

Perhaps that might be in line with the behaviour of the bacteria we now face? In an editorial in "Expert Review of Anti-infective Therapy" in February researchers Tim Walsh and Toleman wrote; "It would appear that the emergence of NDM-1-positive bacteria is as much a response of human behaviour as it is the bacteria becoming 'smarter'."

WHAT THE #@%&!

WHY IS INDIA SO BUGGED ABOUT SUPERGENE NEW DELHI METALLO-1?



GOING GLOBAL

December 2009 The bug is named for New Delhi after a Swedish national contracts it in India. There is little data from India to suggest how widespread it is.

May 2010 A man of Indian origin in Coventry in the UK, who recently had dialysis in India is found to be carrying the bug

June 2010 | There are three

reported cases of superbug infection. All three had



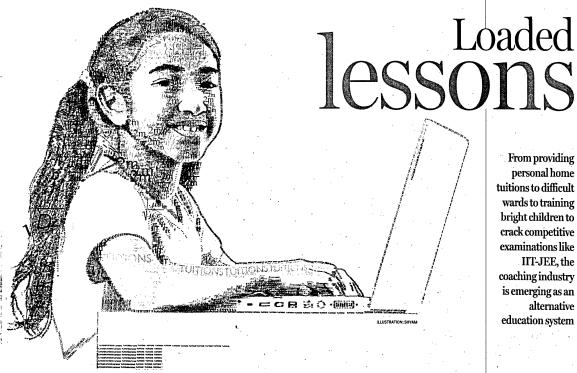
The super bug seen through the microscope received recent medical care in India

July 2010 A medical team reports a cluster of three cases of superbug incidence from the intensive care unit of a hospital in Chennai

August 2010 Canada has its

first confirmed case of the superbug in Ontario

September 2010 Japan detects its first superbug case in a man in his 50s who has just returned from vacation in India and brief hospitalization while on holiday



Jyotsna Bhatnagai

AKE A walk down any locality of a city, town or even village. Chances are you would encounter at least, a couple of banchers, buttings, name plates or hoardings or simple wall graffitti advertising some coaching class or the other Better still, just shake your daily newspaper—at least, a few colourful inserts of some local tuition classes will float down and fall on your lap. Fifteen to 30 years ago, it was considered a taboo. used discreedly and sturreptitionsly by both parents and students since the visual fide-tive of poor academic abilities. Today, the truit in industry is a foreet or eekon with and a

both parents and students since it was indicative of poor academic abilities. Today, the tuition industry is a force to reckon with and a status symbol to bragabout among schoolgonig kids. In terms of size, the industry may well be as big as 11,000 corne (according to a survey done by ASSOCHAM, a leading industry body) providing employment to lakin. Most of the tuition centress fall in the understanding the control of the

tweeducation system, but also, as a lucrative career option.

That's not surprising, considering that a considering that the state of the considering that can be a considered to the consideration of the consideration of

iaddiseases plaguing it."

Concurs Arvind Sahay, a senior professor with IIMA, himself afther of two school gothers with IIMA instead of the professor with IIMA instead in the professor with IIMA instead in the professor with IIMA instead in the professor with IIMA instead keeps increasing, it undermines the basis of school education apart from being a waste of time and money." Adds Himanshu Rai, a professor with IIMA ucknow and convenor of the prestigious CAT examination, "Private tuition is bad if it is done as a substitute for schooleducation and also increases students' dependence on outside help." being a waste of the prestigious CAT examination, "Private tuition is bad if it is done as a substitute for schooleducation and also increases students' dependence on outside help." bright in the professor with IIMA in the I

THE CORPORATISATION OF THE TUITION INDUSTRY IS EVIDENT NOT ONLY FROM THE OPULENT BUILDINGS AND OFFICES MANY BIGGIES IN THE GAME HAVE, BUT ALSO THEIR TURNOVERS, AD-SPENDS AND THE SALARIES THEY PAY

abroad. The academy, which has a yearly students trength of 4,000, most of them from lower middle-class families in and around Kanpur aspiring to get into the prestigious engineering colleges of the country, charges 715,000 20,000 as annual fee and has a success rate of 120, which means a round 200 of his students make it to premier engineering colleges each year. "Unlike the bigger players who charge around three times the fees or even more, we keep our fees comparatively low keeping in mind the economic background of our students. We make up for the loss of revenue by taking in larger number of students. We operate on the low fee, high volume model, "Agarwal chuclates.

But what made Agarwal choose turring as a livelihood, giving up a neight-year-old high-paying consultancy job 15 years ago? "Both my parents have been professors so I guess I got the passion for teaching from them," he confesses. Today, Agarwal's tulition academy is among the top 10-12 players

inUttarPradesh.

However, the biggest names in the fast-However, the biggest names in the fast-overcrowding tuition arena have sprung from Kota and Delhi. And of these two cities, Kota, in particular, is the undisputed tuition heartland with special expertise in coaching or IIT-XEE entrance examinations. Says R K Varma, owner of Resonance, which is emerg-ing asopned the antional brands in the coach-ing business. "Prior to launching my own utition brand, I worked eight years with one of the leading names in coaching.—Bansals." Like Agarwal, Varma, too, is an IITlan, having earned his B Tech from IIT Chennai

UNLIKE IN THE PAST, THE TUITION INDUSTRY IS NOW QUITE ORGANISED AND PROFESSIONALLY-RUN IN PROFESSIONALLY-RUN IN DIRECT RESPONSE TO MARKET FORCES. THE INDUSTRY IS MORE STRATIFIED NOW WHERE THE TOP ECHELONS CHARGE A PACKET, BUT PROVIDE VALUE FOR MONEY

way back in 1994. "Initially started taking tutition to support myself financially and never
planned to take it up as a full time career." It
was only later that he got bitten by the teaching bug and actually started enjoying "theresponse of students, the sense of achievement
and satisfactually started enjoying "theresponse of students, the sense of achievement
and satisfactually started enjoying "therejung to handle young students and make a
subjectilkephysics enjoyable for them."

Today even though Resonance is decade
old with a pan India footprint straddling major-cittes including Jalpur, Bhopal, Lucknow,
Udaipur, Bhubaneswar, Delhi, Kolkata,
Mumbal, Bengaluru and Ahmedabad, Varmastill puts inovereighthours of teaching. "I
take four classes a day, each of an hour-andahalf long duration." But what is the USP that
the owner of this 126-crore brand brings to
the table that others don't? "I'm y academy,
students and faculty are given paramount importance. Satisaction of students is our sole
endeavour and therefore, as far as possible,
we try and retain the same teachers as this
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we try and retain the same teachers as on the
success of any coaching institute, Varma
head-hunts forfaculty directly from IITs and
Other premier engineering colleges and
trains them as per his specifications. Of the
500 faculty members teaching at Resonance,
an impressive 75 are from IITs and Varma
claims an attrition rate of a minuscule 8%.
"That's because we look after the faculty well
—their remuneration is attractive and we
look after them like family." Industry observersreveal thatonanaverage, a good dutor
working with any of the big tuttion academies gets a pay packet of 10-15 Jakh a month.
Over one labs students have taken coaching from Resonance since its inception tenyears ago. And unlike severed clooching aced-

Over one lakh students have taken coaching from Resonance since its inception ten years ago. And unlike several coaching academies which prefer to be subject specialists or specialists in cracking a particular exam, Resonance provides tution to 18,000 children annually from Class 7 to 12, training them to

crack competitive exams as diverse as the NTSK, Olympiads and IIIT-JEE. And this year thas introduced AIEEE and pre-medicalentrance exams as well. And even with fees that the control of the property of the control of the control of the control of the control of an interestingly, the institute conducts its own entrance exam as do many others to sift out appropriately bright candidates from among the thousands queuing up with drams of making it to the top cademic institutes of the country.

Encashing in on the growing aspirations and cut-throat competition among students and parents. Resonance's full page as in mainstream national dallies make tall-control of the country.

Encashing in on the growing aspirations and parents. Resonance's full page as in mainstream national dallies make tall-converse of the country of the c

under the brandname SGA puts it, "The busi-ness of tuition is so much better than a teach-ing job with self-financed and government schools, which offer pathetic salar ies and are known for rampant exploitation. Running tuition classes provides many with a viable and dignified livelihood."

From providing personal home tuitions to difficult wards to training bright children to crack competitive examinations like IIT-JEE, the coaching industry is emerging as an alternative education system

A study conducted by the National Sample Survey Organisation in 2007-08 reveal:

incur on private utilions for their children. According to the surevy, private coaching constitutes a significantly large portion of the expense students incur in education and it is sometimes even higher than school fees. In West Bengal, private coaching constitutes the highest proportion of education (expenditure-40% when the total amount spent on education is averaged accaching contact in surban West Bengal, the spending on private coachings as high as 48% of the education expenses. Other states that spend a considerable share on private tuncing are Binar (21%). expenses. Other states that spend a considerable share on private uturing are Bihar (21%), Orissa (20%), Gujarat (20%), Grissa (20%), Gujarat (20%), Grissa (20%), Gujarat (20%), Gujarat (20%), Maharashtra (16%) and Jharkhand (15%), Interestingly, in Bihar and Orissa, rural students spend a much larger share on private tutilions that ntheir urban Counterparts—24% in rural areas against 15% in urban areas. The states accounting for the smallest proportion on private coaching are Andhra Pradesh with 3% followed by Tamil Nadu, Rajasthan and Himachal Pradesh with 3% ediolewid by Tamil Nadu, Rajasthan and Himachal Pradesh with 3% ediolewing irbu account only those students with take private tutilions, then Gujarat has the highest spending of \$2,318. Maharashtra follows with \$2,378. Karnadaka comein next with 7,2593.