

## Message from the Director

The recent news from the top B-schools of the country makes me very proud. Average salaries are crossing the Rs 6-8 lakh barrier at the IIMs. The top honchos get USD 50000 plus. Merriyl Lynch, GE Capital, Price Waterhouse – they all are queuing up with blank signed checks for the MBA graduates. As they say: Life begins at 22 and 12 lakhs. But then all this makes me very nervous also. Is the lure of money all there is to life? Are our young and brightest going to sell liquor and car finances all the time? Is selling more Dettol soap a job for our engineer-MBA ? I only hope that our best do not get stuck up in the money rat race but have the courage to fly out to more interesting and fulfilling pastures. As Steve Jobs (founder of Apple computers) once asked John Sculley (then President of Pepsi): “Do you want to spend the rest of your life selling sugared water? Or, do you want a chance to change the world?”. It is to Sculley’s credit that he came over to Apple and created history in technology. These thoughts and many more come to my mind as two of our brightest NISTians **Mukesh Patnaik** and **Dharamteja Mansingh** go for the IIMA, IIMC interviews after their written selection. We wish both of you all the best.

March 15, 2004

(Sangram Mudali)

## Message from the Editor

After YOGA...now MULTIGYM. YOGA, a known panacea for stress, has been around at NIST for the last two years. We have now added a multigym facility. Regular exercise with modern equipment helps us to build a better physique, as well as mental and physical relaxation. It also increases the life span of a human being and helps to maintain the zest of life. I hope students utilize the equipment in this facility to the utmost – after all NIST has been famous only for mental exercises. Mr Anupananda Behera, our gym instructor, has taken the responsibility to build up a better physique of NISTians. Let us hope we have a round of Mr. NIST and Ms. NIST (Bodybuilder) in Waves 2004.

March 15, 2004

(Partha S Mallick)

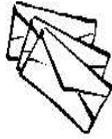
### *In the Next Issue.....*

- GATE Percentile – a report**
- Multigym at NIST**
- Person of the Month**
- Many other News, as usual**

*The next issue will be published on April 15, 2004. Send your message on or before April 10, 2004 to [niste\\_News@yahoo.com](mailto:niste_News@yahoo.com).  
Thanks. ----- **NISTe\_news***

### *Our Student Representatives*

**Aruna Kr Tripathy, Manoranjan Jena, Sunita Panigrahi, Sudhansu Sekhar Sadangi, Vivekananda Dora, Rohan Gupta, and Arun Reddy.**



## Letters to the Editor

**From:** "Prabhat, Mahapatra (IE10)" <Prabhat.Mahapatra@honeywell.com>  
**To:** niste\_news@yahoo.com  
**Subject:** hi everybody there  
**Date:** Thu, 19 Feb 2004 07:30:25 -0700

**Dear Sir,** I am Prabhat kumar Mahapatra, alumni of NIST (EI199817218). I am pleased to inform you that I have got a job here at Bangalore in Honeywell Technology Solutions Lab. Before I got this job I had undergone a Computer course at CDAC-Pune. I sincerely thank Reddy sir, Gitika mam, Suresh sir, BKDash sir, Mudali sir, Panda sir and all other nist family for their contribution and good wishes towards my success. I regularly read niste\_news. A question to the Director..Why is the 1998 batch student's names have not been put in the Alumni Page? I would be happy if anyone from the NIST family would reply to this mail. I am proud to be a NISTian!! Regards, **Prabhat**.

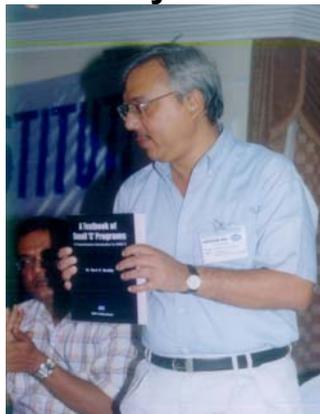
**Date:** 5 Mar 2004 11:05:47 -0000  
**From:** "rahul kr sinha" <rahul\_kr11@rediffmail.com>  
**To:** niste\_news@yahoo.com

**Sir,** I am a regular reader of your nist e news and as a student of your college, I want to inform you that I have developed a software using c & c++ which controls a car digitally, through LPT1 port of computer. The software sends digital signal to parallel port that is then decoded by a decoder circuit. Therefore, I request you to publish this in your next edition. I will be thankful to you. Yours truly, **Rahul Kumar Roll ELE200220175**.

**From:** Er. PK Rath, Mohanty Street, Bhanjanagar, Ganjam

**Dear Sir,** I am highly impressed with the newsletter published by NIST. Please convey my congratulation to Prof. S.K. Upadhyay who was residing in my neighboring room at U.C.E., Burla. I wish that your institute will perform outstanding works in future. With regards  
Yours sincerely, **P K Rath**

### Book Launched by NIST Publications



**Text book of Small C programs** – written by our Deputy Director **Dr Ravi P Reddy** was launched by Infosys Center Head **Mr. Bikramjit Maitra** on February 29, 2004 at Hotel Swosti Plaza, Bhubaneswar. In his brief remarks, Dr. Reddy thanked all his students who have been his best teachers and without their contribution the book could not have been published. This is the second book of NIST publications...some other good books by NIST faculty will be published soon.



## News Corner

### Ph.D degree awarded

Our mathematics faculty, **Mr. Motahar**



**Reza** was awarded the degree of Ph.D from IIT Kharagpur. The title of his Ph.D theses is *Some Problems on Momentum and Heat Transfer in Flows of Electrically*

*Conducting and Non-conducting Fluids*. He worked under the supervision of Prof J C Mishra, IIT, Kharagpur and also worked with Dr. A. S. Gupta (Honorary Scientist, INSA) for his Ph.D research work.

### M.Phil degree awarded

**Mr. Anjan Dasgupta**, faculty of the



Department of English, has recently been awarded the degree of M.Phil in English from Calcutta University.

He has secured 62.6 percent marks and was placed second in the university. The title of this theses is *The use of magic and fantasy as a narrative device in children's classics: the world of the para-real*. He worked on texts like the *Harry Potter series* and the *Lord of the Rings*. He worked under the supervision of Prof. Anindya Basu Roy, Calcutta University.

### Placement: ZITT Technology at NIST

ZITT Technology visited NIST on March 13, 2004 for recruitment. ZITT technology is an IT based company at Chennai working in the field of Networking and Communication. They have selected ??? students from NIST for the post of "Network Engineer". Our 1999 batch students are working successfully at ZITT technology. Interested students may contact them at [zittnet@now-india.net](mailto:zittnet@now-india.net).

### Cricket Match 3<sup>rd</sup> Yr. Vs. Rest of NIST

A scintillating match was held on Sunday, March 14, between the Third Year Team and NIST XI team. The NIST-XI team won the match by three wickets. The toss was won by third year and they elected to bat first. They made 128 runs in 25 overs. NIST-XI achieved the score in 23.2 overs with the loss of 7 wickets. The following were adjudged as: Best Batsman- DEBASISH MOHANTHY (2<sup>nd</sup> Semester), Best Bowler-SUDEEP MISHRA(5<sup>th</sup> Semester) and Man of the Match-VIJAY KUMAR(4<sup>th</sup> Semetser). Our Director Mr. Sangram Mudali gave the prizes to the best bowler, best batsman and Man of the Match. Our Placement Director Mrs Geetika Mudal gave the Winner Trophy with cash award of Rs. 2000 and Runner-up Trophy with cash award of Rs. 1000 to the respective teams.



### NIST Welcomes You.....

NIST welcomes **Mr. Surjya Narayan**



**Panda** who joined as *Medical Supervisor* on March 3, 2004. Mr Panda having a wide range of medical experience of MKCG medical college and hospital. He will look after

all medical related jobs like first-aid, pharmacy, hospitalization, emergency, health checkups etc. of the NISTians. Presently, he will be available at Room No. 102 of the Advanced Research building on all working days between 9:20 AM to 5 PM.

We welcome **Mr Anupnanda Behera** who joined on January 1, 2004 as Fitness Trainer and Coach. Anupnanda has a wide ranging experience in various sports activities. He won the gold medal in Inter district weight lifting Championship, Orissa, in 1995 and 1996. He also participated in the junior boxing championship in 1990-1991.

## Placement of the Last Month

**(February 15, 2004 – March 15, 2004)**

<b>Serial</b>	<b>Name</b>	<b>Organization</b>	<b>Batch</b>
1.	Subrat Behera	HP India Sales Ltd	1999-2003
2.	J. Santosh Kumar	Orange, Hutch Ltd	1999-2003
3.	Debabrata pati	TCS	1999-2003
4.	Bibhulendra Hota	TCS	1998-2003
5.	Sucheta Patnaik	Kanbay	1999-2003
6.	Banbas Rout	Kanbay	1999-2003
7.	Bapu Mohapatra	Kanbay	1998-2003
8.	Lagnajit Samantray	Kanbay	1998-2003
9.	Sandhya J	Satyam	1999-2003
10.	Gautam Sahu	Satyam	1999-2003
11.	Apali Nanda	TCS	1999-2003
12.	Minaketan Mohapatra	Tata Infotech	1998-2003
13.	Ajaya Kumar Nayak	Alliance Computer Telephony India (P) ltd.	1999-2003
14.	Poonam Datta	TCS	1999-2003
15.	Rashmi Ranjan Pattnaik	TCS	1999-2003
16.	Apali Aparajita Nanda	TCS	1999-2003
17.	Suchitra Mishra	TCS	1999-2003

### **ROBOVISION 2004**

NIST Robotics Club has added one more feather to its cap by successfully organizing a workshop on robotics- “**ROBOVISION-2004**” at Swosti Plaza , Bhubaneswar on February 29, 2004. The speech by our achievements of followed by Infosys Center inaugurated the **programs**, R.P Reddy. Prof. Engineering good account of



recent technological trends. He also gave some guidance for students opting for a career on robotics. A demonstration of **Wall Climber** robot was given by Mr. Shrikant Panda and demonstration of **Coffee Maker** robot was given by Mr. Bhawani Shankar Pattanaik. The next speaker, Mr. Abhro Mukherjee, faculty of NIST, delighted everybody by his mathematical and kinematic approach to robotics. Our deputy Director Dr Ravi P Reddy concluded the technical session by delivering a talk on **Modern trends in Robotics**. In the afternoon session we started off with hands-on robotics workshop using Lego kits and 6-axis robot. Everybody was enthused to build robots of his/her own dreams after observing our 10 robotic models at the respective workstations but our mentors restricted them to two problem

### **Shrikant Panda**

workshop started by an exhilarating Honorable Director on the NIST and its mission ahead. It was launch of NIST publications by Head Mr. Bikramjit Maitra who book **A text book of small C** written by our Deputy Director, Dr. Sudipto Mukherjee of Mechanical Department of IIT, Delhi gave a his research work on robotics and

statements-(1)automobile racing and hitting balls into the grooves placed in the tracks (2)ball throwing into a beaker placed at a fixed distance. The 6-axis group finished first followed by other groups. Finally the one-day workshop was concluded by prize distribution ceremony. The prizes were given away by chief guest Mr. Asit Tripathy (IAS), Principal Secretary in IT & Tourism, Government of Orissa. I thank all the NIST Robotics Club members and student volunteers who have contributed for the success of the workshop.

### **Techkriti – 2004**

This was a competition on Robotics organized by IIT Kanpur from February 27 – 29, 2004. Our college participated in this competition alongwith fifty other teams from various reputed colleges of our country. Twenty-one students of NIST participated in five events with seven robotic models designed at NIST by the students. Four models were quarterfinalists and one model successfully grabbed the first prize in robotics war event. The entire NIST family is delighted at the group's achievement and is looking forward to many more laurels in the area of robotics. The Robot from NIST was named as **POW** which stands for Pyramid on Wheels. Finally **POW** emerged as the winner in the Robo War and bagged the first prize in the competition. The Director of IIT, Kanpur, Prof. Sanjay Dhande and the Vice President of Tata Motors had dropped in during the competition and had lot of appreciation for our event. The POW model was designed by **Mr. A Aditya, Mr. Abhishek Bhattacharya, Mr. Rohan Gupta and Mr. Vishal Kumar** of 4<sup>th</sup> semester. Congratulations to all of you.

### **COMET – 04**

**Comet 04** was an event organized by the Institute of Technology of Banaras Hindu University. Comet stands for Conference on Mechanical Engineering and Technology. It was organized by the MEC society of IT- BHU. The whole event was scheduled for 3 days from 14<sup>th</sup> Feb to 16<sup>th</sup> Feb. There were many different events, which includes Technical paper presentation, Quiz, Software contest, Cultural items etc. Many participants from all the reputed colleges of India like NIT Jabalpur, CET Bhubaneswar, ISM Dhanbad, NSIT Delhi etc. were present to take part in the program. Seven students from NIST participated. Mr. Ashutosh Pradhan of 7<sup>th</sup> semester and Ms. Leesa Satapathy of 4<sup>th</sup> semester of our college grabbed the first prize in the paper presentation on the topic *Enterprise wide risk Management* of Industrial Management. The prize consists of cash, certificate & a *momento*. We congratulate the winners as well as all participants.

### **Second anniversary of NISTE-News**

NIST E- News celebrated its 2<sup>nd</sup> anniversary



### **Prof Arun K Patnaik**

on February 26, 2004 at the octagon building. Ms. Sunita Panigrahi of 7<sup>th</sup> semester was the MC for the entire programme. The programme started with the inauguration speech by Dr. Ajit Kumar Panda. Our Placement Director Mrs. Geetika Mudali chaired the function and cut the three layered giant Birth-Day cake. The students along with the faculty and staff participated and celebrated the 2<sup>nd</sup> birthday of NISTe\_news with mirth and joy. Mrs. Geetika Mudali, our placement Director, congratulated

the Editor of the Newsletter Dr. Partha S Mallick for its success and also mentioned that this newsletter has now caught the attention of many other Institutes, thus establishing yet another NISTian benchmark. Prof. Santosh Upadhayay spoke a few lines on the occasion. The second phase of celebration started with few interesting games conducted by Mr. Manoranjan Jena of 7<sup>th</sup> semester. In the lucky draw coupon prizes were awarded to the lucky ones. Lastly, Prof.

Arun Kumar Patnaik offered the vote of thanks. Many students, staff and faculty members participated and took keen interest in the program.

## Student's Corner

**NISTe\_News      D. Arun Reddy and Shantanu Behera, 2003 batch**

It represents our thoughts (**Students Corner**),  
It gives us both, when we need one (**both informative and entertaining**)  
It guides us for better future (**Career Corner & Knowledge Teasers**)  
It motivates and inspires us all the time (**Placement Information**)  
It makes sure that all are equal in NIST family  
It writes about the best (**Person of the Month**)  
It keeps us up to date (**Current Affairs**)  
It is always there once in a month (**pleasant surprise for parents**)  
It understands our needs better (**Jobs Corner**)  
It shares both success and sorrows (**Achievements/obituary/accidents**)  
It thinks to bright up our darkest day (**bottom of the page**)  
It brings alumni to us (**interviews**)  
It makes them worthwhile (**Waves, Sankalp, Seminars, blood donation, workshops etc**)  
You are our friend, companion, guide.....all in one.  
You are NIST's "e-News", "HAPPY 2<sup>nd</sup> ANNIVERSARY".

**Do you know??      Manas Kumar Mahapatra, 2nd Semester**

38% of Doctors in USA are Indians, 12% scientists in USA are Indians, 36% of NASA scientists are Indians, 34% of Microsoft employees are Indians, 28% of IBM employees are Indians, 17% of INTEL scientists are Indians, 13% of XEROX employees are Indians, There are 3.22 millions of Indians in USA (*1.5% of population*).

**INDIAN DREAM for 2020      by an Indian**

**Subject: INDIAN DREAM for 2020**

**Year : 2020**

**Place : Two Americans at IBM, USA.**

**Currency Conversion Rate: \$100 = Rs 1**

**Alex:** Hi **John**, you didn't come yesterday to office?

**John:** Yeah, I was in Indian Embassy for stamping.

**Alex:** Oh really, what happened, I heard that nowadays it has become very restricted

**John:** Yeah, but I managed to get it.

**Alex:** Really? In India, it is a matter of an hour to get stamped for USA.

**John:** Yeah, but that is because who in India will be interested in coming to USA man, their economy has been booming.

**Alex:** So, when are you leaving?

**John:** Anytime, after receiving my tickets from the client in India and you know.

**Alex:** How long are you going to stay in India?

**John:** What do you mean by how long? I will be settled in India, my company has promised me that they will process my *Hara Patta*.(Green Card)

**Alex:** Really, lucky person man, it is very difficult to get a *Hara Patta* in India.

**John:** Yeah, that's why, I am planning to marry an Indian girl there.

**Alex:** But you can find lots of US girls in Bangalore, Hyderabad and Mumbai.

**John:** But, I prefer Indian girls because they are beautiful and cultured.

**Alex:** Where did you get the offer, Bangalore?

**John:** Yeah, salary is good there, but cost of living is quite high, it is Rs. 1000/- for a single room accommodation.

**Alex:** I see, that's too much for US people, Rs 1 = \$ 100/-.

**John:** You can get a BMW car for Rs. 5000/-, but my dream is to purchase Ambassador, which costs Rs.200000/- but has got a sexy design.

**Alex:** By the way, who is your client?

**John:** A pure Indian company, specializing in Embedded Software.

**Alex:** Oh, really, lucky to work in a pure Indian company. They are really intelligent and unlike American Bodyshoppers who have opened their Fly-by-night outfits in India. Indian companies pay you in full even when you are on bench. My friend Paul Allen, it seems, used his bench time to visit Bihar, the most livable place in India, probably world. There you have full freedom and no restrictions. You can do whatever you want I wonder how that state has perfected that system.

**John:** Yeah man, you are right. I hope our America also follows their footsteps.

**Alex:** How are you going to cope with their language?

**John:** Why not? From my school days I have been learning Hindi as my first language here at New York. At the Consulate they tested my proficiency in *hindi* and were quite impressed by my cent percent score in TOHIL i.e. Test of Hindi as International Language.

**Alex:** So, you are going to have fun there.

**John:** Yeah, I will be travelling in the world's fastest train, world's largest theme park, and the famous Bollywood where you can see actors like, Junaid, Amir Khan, and all. Esselworld is also near to Bollywood.

**Alex:** You know, the PM is scheduled to visit US next year, he may then relax the number of visas.

**John:** That's true. Last month, Narayana Murthy visited White House and donated Rs. 2000/- for infrastructure development at Silicon Valley and has promised more if we follow the model of Silicon City of Bangalore.

**Alex:** Lets hope for the best, Good Luck **John**.

!!

HUM HONGE KAMYAB, HUM HONGE KAMYAB,  
HUM HONGE KAMYAB EK DIN,  
HO HO MANN MAIN HAI VISHVAS PURA HAI VISHVAS  
HUM HONGE KAMYAB EK DIN

!!

**Jokes                      Vivek Kumar**

**Teacher:** *Who invented the steam engine?*

**Student:** *what sir?*

**Teacher:** *very good.*

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**Son:** *Papa, if I will pass in exams, will you give me a Bicycle?*

**Father:** *yes, but if you fail, I will give you a rickshaw.*

--

**Teacher:** What important event took place in 1869?

**Student:** Mahatma Gandhi was born that year.

**Teacher:** Now tell me, what happened in 1872?

**Student:** Mahatma Gandhi was 3 years old.

**Routine algorithm of a typical NIST student**

1. Begin.

**Satyabrata Seth, IT, 5th Sem.**

<p><b>SUBROUTINE 1</b></p> <ol style="list-style-type: none"><li>1. Begin</li><li>2. Get up from bed at 10am</li><li>3. Go for a breakfast</li><li>4. Check for a good movie at any talkies</li><li>5. If successful, " " "</li></ol>
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2. Get up from bed (time = 5 am).
3. Check temp in degree centigrade.
4. If temp < 20 deg goto 36.
5. Else if temp > 20 deg do
6. Begin
7. Check if first class is there or not
8. If 1<sup>st</sup> class = "yes" , drag yourself to college
9. Else call subroutine 1
10. Goto gumti for breakfast
11. Check if the teacher = "boring".
12. If yes, arrange for a proxy and goto cafeteria
13. Else attend class
14. Repeat 11 and 12 until (lunch time= 'yes')
15. Goto cafeteria for lunch
16. Check the menu (though not constant)
17. If tasteless veg = "yes" goto gumti.
18. Else have a lunch (shouting for extra curry is compulsory)
19. Check if classes or not at 1:40pm
20. If class = "yes" go back to main building
21. Else come back to mess and relax
22. Play on the sound system
23. Contact friends
24. Collect money
25. Arrange a CD
26. Enjoy the CD
27. If freak-out mood = "yes"
28. Call subroutine 2
29. Else goto 29
30. Submerge in a spiritual philosophical world
31. Come back from roof
32. Eat a nice tasty tiffin
33. Do some khatti with friends
34. If time = 9pm go for dinner
35. Come back to the room and do whatever you like (better to study)
36. If feeling = "sleepy"
37. Go back to bed End

#### SUBROUTINE 2

1. Begin
2. Go for a walk with friends towards *Mayuree Tower* in BAM town.
3. Gossips with friends and castles in air ... etc
4. Return to 33 of main
5. End

**OUTPUT:** NIST is full of joy, fun & studies.

**Facts to make very Indian Proud, Janardhan Kartik Prathi, 4th Sem., IT**

**Q. Who is the co-founder of Sun Microsystems?**

A. Vinod Khosla

**Q. Who is the creator of Pentium chip (needs no introduction as 90% of the today's computers run on it)?**

A. Vinod Dahm

**Q. Who is the founder and creator of Hotmail (Hotmail is world's No.1 web based email program)?**

A. Sabeer Bhatia

**Q. Who is the president of AT & T-Bell Labs (AT & T-Bell Labs is the creator of program languages such as C, C++, Unix to name a few)?**

A. Arun Netravalli

**Q. Who is the GM of Hewlett Packard?**

A. Rajiv Gupta

**Q. Who is the new MTD (Microsoft Testing Director) of Windows 2000, responsible to iron out all initial problems?**

A. Sanjay Tejwrika

**Q. Who are the Chief Executives of CitiBank, Mckensey & Stanchart?**

**A. Victor Menezes, Rajat Gupta and Rana Talwar.**

We Indians are the wealthiest among all ethnic groups in America, even faring better than the whites and the natives.

### **NISTians success at Quiz contest**

Our students performed well in the *IT Quiz contest* held at Berhampur *Book Fair-2004* on February 21, 2004. Among 100 participants 30 students were successful. Among these 30, 14 were NIST students. They are: 7<sup>th</sup> Semester: M. Vikram, Rakesh Korada, A. Srikanta Subudhi, A. Padmaja, S. Satish Kumar, K. Tanuja, K. Surendra Kumar, Suresh Ku. Shadangi, Lalatendu Pattnaik and from 5<sup>th</sup> Semester: Itishree Mishra, Amit Ku. Behera, Rakesh Khatai, A.Amar and Murali.

### **If you want it Manas kumar mahapatra 2nd Sem**

If you want to win, win the heart of your enemy.

If you want to keep, keep your promise.

If you want to worship, worship your elders.

If you want to cultivate, cultivate good manners.

If you want to kill, kill your own pride.

If you want to perform, perform your duty.

If you want to sow, sow the seeds of love.

If you want to confess, confess your fault.

If you want to save, save your nation.

If you want to speak, speak the truth.

If you want to take, take the blessings.

If you want to awake, awake the creative minds

If you want to spurn, spurn illiteracy

If you want to sprinkle, sprinkle love all around.

If you want to die, die for your motherland.

### **Jewels in the Crown**

Yes! It is the Inter College Debate competition for the year 2004. The competition was organised by Berhampur University on February 26 – 28, 2004 at Senate Hall, Berhampur University. **Tapaswani Mishra** of 5<sup>th</sup> semester was declared as the Winner in Oriya debate for University Prize 2004. The topic of the debate was - BHARAT RA BIKASHA PAIN SAMARIKA SASAN RA ABASYAKATA ACHI KI? She also got the second prize in Oriya Debate on PANDIT NEELAKANTHA DAS by BERHAMPUR UNIVERSITY for the year 2004. **Preeta Monathy** of 4th Semester became the runners-up in English debate for Chancellors Prize 2004. The topic of the debate was - GLOBALISATION IS A NECESSARY EVIL. We congratulate both of them and wish them all success.

### **Word of Power, K. GIRIJA SHANKAR SENAPATI, 2nd Semester**

*Did* is a word of achievement.

*Won't* is a word of retreat.

*Might* is a word of bereavement.

*Can't* is a word of defeat.

*Try* is word of each other.

*Will* is a word of beauty.

*Can* is word of power.

## Research and Development

### Conference Paper

1. **Saroj Meher**, G Panda, D. P Das and B Majhi, Intelligent text recovery using an efficiently trained radial basis function neural network – Published in the *Proceedings of the International Conference on Information Technology(ISPR-2004)* held at Allahabad on February 17, 2004.

2. **S. K Upadhyay, S R Samantaray** and J. Mohanty, *Systems approach to Energy Management: An efficient criteria for sustainable growth of an Organisation*, published in the proceedings of all India Seminar on Advanced Energy Systems", IE(I), 7-8 February, 2004, Bhubaneswar.

### Seminar by Prof. BL Mathur

Prof B.L Mathur from the department of Economic Administration and Financial Management, University of Rajasthan, Jaipur delivered a Talk on *Role of Liberalised Financial Institutions in the Development of Science and Technology* in the Lecture Hall Complex on March 1, 2004. Professor Mathur is a distinguished academician in his area who has published more than 70 text and reference books and around 100 research papers. The seminar was attended by our Director, interested faculty members and students.

## Career Corner

### Knowledge Teasers

**Kushal Bhut & Manmit Singh, Final Year**

1. In *ad jargon* what is a "Horizontal Roadblock" ?
2. Everyone knows what e-mail is. What is we-mail?
3. In 1935, Carl Van Ossietzky, German journalist and pacifist won the Nobel Prize by beating a much more famous person whose nomination for the Prize was vehemently opposed by the British. Who?
4. She was the first winner of the Asian Women's amateur Table Tennis title but is better known for her professional life. Who?
5. Who was awarded the Bank of Sweden Prize for 1998?
6. Recently a Dubai based company launched a range of perfumes called 'SK'. After whom is it named?
7. In the name of the popular computer *iMAC*, What does the 'i' stand for?
8. It was earlier called as 'The Statuette'. How do we know it today?
9. In the Mahabharata, other than the Kauravas who else had a hundred brothers?
10. Sage Bhagiratha performed penance to bring Ganga to earth. Sage Kashyapa performed penance to bring which river to earth?

**Send your ANSWER by April 10, 2004. Names will be published in the next issue.**

*(Among the responses received no one was able to provide all the 10 correct answers. Answers with Questions are given below).*

1. Write the full form of BMW?(Bayerische Motoren Werke)
2. Which NRI businessman owns the Caparo Group?( Lord Swaraj Paul)
3. What did Nestle do in 1938 on the request of the Brazilian Govt?(Invented Instant Coffee)

4. Who is considered as the "Father of the Internet"?(Vinton G. Cerf)
5. Name this famous corporate which get its name from a brute race mentioned in Jonathan Swift's novel "Gulliver's Travel"?(YAHOO)
6. What are James Bonds on Wall Street?(Bonds that will mature in 2007)
7. With which famous brand would you associate The Spirit of Ecstasy?(Rolls Royce)
8. Which was the first U.S product to be produced and sold in the USSR?( Pepsi Cola)
9. For this world famous company, 'Corporated Incorporated' and 'Limited Unlimited' were names considered but not adopted. What was finally adopted?( Microsoft)
10. Which company plans to develop car 'Aria Coupe' & luxury sedan 'Magna'? (TELCO)

## Future Technology

### **NANOBOTS: The artificial blood S. Rajesh Kumar and J. Vivek Kumar, 3<sup>rd</sup> Sem.**

Ever thought about holding your breath and swimming under water for hours at a stretch like a whale? Or sprinting like a cheetah for 12 minutes, without breathing even once!

Its not a Sci-fi movie scripts or dreams. The concept is very much real and might come some day in the future. All this is not mere imagination, they would be real in the brief world of Nanotechnology. Scientists Robert A Freitas and Christopher J Phoenix involved the very essence of life-replacing the blood coursing through our arteries and veins with over 500 trillion oxygen and nutrients carrying **NANOBOTS**. The vasculoid system as it is called will just about duplicate every function of blood, more efficiently.

Respirocytes, for example, are just one type of the NANOBOTS that will make up this artificial blood. Freitas envisages Respirocytes to be made up of 18 billion structural atoms that are precisely arranged to the last atom. Each Respirocytes will have tiny onboard computer, power plant and molecular pumps and storage hulls that can transport molecules of oxygen and carbon dioxide.

The bots will be a thousand times more efficient than the RBCs they seek to replace. Agreed this nano-robotic blood will be more than a little time in making. But who knows, 500 trillion Nano-bots might replace our blood in the near future, which could change the course of human evolution.

## Alumni Page

### **Congratulations: Abhijit Bhowmik – 1999 batch**

Our Alumni **Abhijit Bhowmik** of 1999 batch CSE, has been awarded the second prize in All India Design Competition for Engineering students-2003. The competition was organised by the Institutions of Engineers (India), National Design and Research Forum. Abhijit is presently working at *Convergys Software*, Gurgaon, Delhi.

**Date:** 13 Feb 2004 04:49:58 -0000

**From:** "ASISH KUMAR PATRA" <askasish@rediffmail.com>

**To:** arahman11@rediffmail.com, siddhartha\_b\_n@yahoo.com

**Subject:** gate 2004(Asish)

**Sir**, I have done well in GATE. But as you know time will decide about the result. I have got lot of support from you and other faculties for preparing for this exam. I will not feel sorry even I don't succeed in the GATE. It is because the knowledge I got from you will help me in every walk of my life. Thanking you. Hope you are in the best of health. Regards, **Asish**.

## Interview

*(This month we are giving the Interview of Mr. Mrunmoy Samal, student of 1999 batch(CSE) who is presently working in Infosys Technologies Ltd. – NISTe\_news).*

**From:** Mrunmoy Samal <Mrunmoy\_Samal@infosys.com>

**Date:** Mon, 02 Feb 2004 09:09:59 IST

**To:** Sunita panigrahi<niste\_news@yahoo.com>

**Subject:** enews

**Enews: Please few lines about yourself...**

**Mrunmoy:** I am the youngest son of my parents, my father is my motivation, everything I do, I do it keeping his words in mind, my mother is my eye, everything path I tread I do listening to her voice. Whatever I am today, big or small, it is due to my parents & my teachers whose teachings guide me always. Since childhood my aim was to build a robot (like the one I used to watch in the TV serial->"Johnny & his Flying Robot" during 1984 may be.) And until today whatever I've done, I've done following my aim putting on pieces together, & I am sure one day I would build one life size robot. That's all about me.

**Enews: About your present job....**

**Mrunmoy:** Currently I am working as a software engineer at *Infosys Technologies Ltd (ITL)*, after finishing my training in Mainframes. ITL is a renowned company, as you might have heard a lot of things about the company, in newspapers, etc. The atmosphere here is just like it was at NIST, sometimes, I feel like I am in college.

**Enews: How did you reach here.....**

**Mrunmoy:** Well it was not a big thing to reach here, since the requirement is high now for ITL, but still you need to try really hard to get a call for examination, and once you get that call, do your best in the exam, the questions are not that difficult, almost a tenth standard student can solve it out, but what you require is, doing it fast, in that given time. I got a call for the exam after 6 months of sending my resume to <http://freshers@infy.com>, George Summers, and Shakuntala Devi can help you out in exams... that's it!

**Enews: From your NIST memories**

**Mrunmoy:** Well, well, every moment at NIST was my memorable moment, I remember most of my friends calling me *Pagal Professor*, I can very well remember the punishments I had when I tried to play the fool around, and specially I miss the labs, where I used to do all kinds of R&D things, and Dr. Reddy's inspiration, Dr. Panda's lectures on semiconductors, Mr. Mudali's words, and all the fun we had in classes, are almost written like a ROM chip in my mind.

**Enews: Suggestions to your juniors**

**Mrunmoy:** I would like to tell all my young fellow friends -> "Guys follow your dream, never let anything come between you and your dreams, just kick them out!, Parents are number 1 thing that God has given us, listen to their words because they are never wrong, you might be thinking that I am giving you lectures and I never did it myself, but believe me they are the one for whom I do whatever I do, you know one thing even I used to think like you all once but the moment I knew that they are not gonna stay with us forever, I changed my view. Also don't give away to wasting time, whenever you get free time think about what's possible, try to think out the ways to make the impossible -> possible, I know that I

have not achieved a great thing in life that I should be giving you lectures like this, but that is the truth I am telling you, remember experience counts. Bye and all the best for your career!"

## Question of the Month

**Is the Indian Economy on the right track? YES/NO**

*Send your answers with a short reason to the Editor at niste\_news@yahoo.com. Results will be published in the next issue.*

The Question of the last month was "As per the U R Rao committee report the country needs only 50000 engineers instead of the present 3,50,000. Do you agree?" We have received a good number of responses. Here are some of them...

### Last Month's Poll

*From: "prasant kumar senapati" 2<sup>nd</sup> sem <itsprasant4u@yahoo.co.in>*

*No, 3,50,00 engineers though it sounds a big number but when compared to the population of INDIA it occupies nothing. The soul of an engineer should be to serve people in making their life easy from technical point of view. Today in our country, less than 45% of the rural areas have electricity, less then 30% of people use telephones, less then 10% of people have internet and mobile phones. Engineers can ease our financial problems also, for example, the fighter aircraft -SUKHOI-30MKI costs Rs 850 crores for INDIA but if it is made in our country it will cost only 250 crores. In short INDIA needs young technical minds able to face the challenge from tomorrows technology...*

*From: "snigdha parida" <snig717@rediffmail.com>*

*Yes, I feel that there should be a limited number of engineering colleges in India so that there should the right amount of engineers getting employed as per the requirement. By doing so the country will have just the right amount of deserving and efficient candidates.*

*From: "neeraj prasad" <neerajnaina@yahoo.co.in>*

*Yes, I agree with this statement because now a days candidates are large in number but the seats are limited. As in this case, country needs 50,000 engineers instead of the present 3,50,000 because country wants a better quality and perfect engineers for better output.*

### A Collection of Quotes - Nruparaj Sahu

All glory comes from daring to begin. - **William Shakespeare**

*It's always fun to do the impossible.* - **Walt Disney**

Never leave that till tomorrow which you can do today. - **Benjamin Franklin**

*Aim for success not perfection? Remember that fear always lurks behind perfectionism. Confronting your fears and allowing yourself the right to be human can, paradoxically, make you a far happier and more productive person.* - **Dr. David Burns**

It takes a lot of courage to show your dreams to someone else. - **Erma Bombeck**

*I do not think there is any other quality so essential to success of any kind as the quality of perseverance. It overcomes almost everything, even nature.* - **John D. Rockefeller**

Control your destiny or somebody else will. - **Jack Welsh**

*You miss a 100% of the shots you don't take.* - **Wayne Gretsky**

Only those who risk going too far can possibly know how far one can go. - **T. S. Elliot**

## Self Esteem

### What is it?

Self esteem is how you feel and think about yourself. It is the regard in which you hold your actions, talents, skills and importance. It is your appreciation of your own value. Self esteem

is self confidence, self-worth and self-respect. Self esteem is not boasting. Instead it is an honest assessment of your success and internal strengths.

Self esteem is appreciating yourself as a human being with good points and weak points and accepting responsibility for your own thoughts and actions. Self esteem is believing yourself and recognising your unique qualities. Self esteem is an ongoing process of positive and constructive self evaluation.

### **How is it recognised?**

Your self esteem will affect everything that you do and it will be reflected in your actions. If you have high self esteem you will

Participate more freely

Be more confident

Take more risks

Be more outgoing

Be comfortable to take decisions

Ask for help without embarrassment

Take responsibility for difficult tasks

Set personal goals

Be able to speak in front of a group

Appreciate the success of others

Be able to be more **assertive**

Low self esteem can be very harmful. Low self esteem may cause you to think that you have very few skills or talents and that you are not likely to be successful. This negative attitude may prevent you from trying new things, and may cause you to feel depressed, afraid, guilty, lonesome, or resentful. People with low esteem sometimes try to hide their poor image of themselves by acting aggressively or passively, or by trying to make others look worse than they feel!

### **Where does Self esteem come from?**

Self-esteem is learned. Children are not born with high or low self esteem. The sense of self-esteem develops over time. The development of self esteem is an ongoing process begun early in life and continuing throughout life. The Development of self-esteem is influenced by many childhood experiences including interaction with parents & family members attitude of teachers & other environment culture special circumstances or traumatic events

### **You can improve your self Esteem**

You can improve your self esteem by changing how you think about yourself. You can create a positive image about yourself and belief in your own abilities. You can overcome your fears and doubts about your own performance. You can become more confident and optimistic about your future. You can be proud of your own talents and successes. You can communicate more effectively and be more assertive.

### **How? - Be Prepared to change!**

Realise that change is not easy. Identify your priorities and stick to them. Set personal goals and objectives Practise better time management. Ask your friends and colleagues for suggestions. Have a nutritious diet and stay healthy, learn a new skill, take a course, attend a workshop. Read inspiring articles or books. Write down your accomplishments. Share successes with those who care you Exercise regularly and keep fit You may not succeed the first time, try and try again, Don't give up Take time to do some things you enjoy. Believe in yourself. (Collected from ISTE News Letter).

**February 2, 2004:** The largest temple complex in Southern Hemisphere was consecrated, a Sri Venkateswara temple at Helensburg in New South Wales, Australia.

#### **Khan is pardoned**

**February 4, 2004:** Abdul Qadeer Khan, eminent Scientist of Pakistan, admitted transferring sensitive technology to North Korea, Iran and Libya and, was granted pardon on conditional grounds, in a meeting with President Pervez Musharaff.

#### **TATAs Snap up DAEWOO Truck unit**

**February 18, 2004:** TATA motors signed an investment agreement for the acquisition of Daewoo Commercial Vehicle Co.(DWCV) for a total price of Rs.465 crore.

#### **49th Filmfare Awards**

**February 22, 2004:** Best film-*Koi Mil Gaya*, Best Director: *Rakesh Roshan* for *Koi Mil Gaya*, Best Actor: *Hrithik Roshan* for *Koi Mil Gaya*, Best Actress: *Priety Zinta* for *Kal Ho Na Ho*.

#### **Putin Sacks Government**

**February 25, 2004:** President Vladimir Putin dismissed PM Mikhail Kashyanov and his cabinet less than three weeks before the presidential elections. Putin stated that this act was dictated by his desire to once again delineate position.

#### **INTEL Unveils new chip**

**February 25, 2004:** Intel Corp. has launched the next generation of its Pentium-4 microprocessors, adding more memory and other features that would allow it to reach record speeds of up to 4 GHz.

#### **IIM's controversy**

**February 27, 2004:** The Supreme Court endorsed the Human Resources Development (HRD) Ministry's decision to drastically reduce the fees charged by the IIMs, while disposing a petition challenging the move.

### **Person of the Month**

The Person of the Month is **Bodu Chinya Patro**, who has been giving dedicated service to the transport department as a driver since 1997. He is originally from the tiny village Huradunga, Montridi of Golanthara, Ganjam. He is the son of Mr. B. Ramya Patro of Huradunga, Montridi, Golanthara. Mr Chinya joined NIST on November 1, 1997 and is presently working in the transport department as the Driver of Bus no 4. His schooling is from M.S.P.M.E. School, Montridi, Golanthara. He got married to Ms. B. Bangari Patro in the year 1993. He is blessed with one son B. Lingaraj Patro and two daughters B.Santoshi Patro and B. Laxmi Patro. He spends his free time playing Carom, listening to Oriya Songs and chatting with colleagues.

### **Highlights of March 2003....**

1. NISTians Victory against CVRC, BBSR in Cricket – a brief report
2. Career opportunities in Fiber-Optics- a report by Dr Partha S Mallick
3. NIST Websites by Dr Ravi P reddy
4. Mr Rajesh K Dash was the Person of the Month.

*Going to IIT, Kharagpur is like going home. I feel like I know every inch of that soil. Hindus go to Rishikesh for pilgrimage, Muslims go to Mecca & Christians go to Jerusalem to pray. I just go to IIT Kharagpur as my holy place. **Vinod Gupta (Alumni of IIT, Kharagpur).***