

### Message from the Director



As I had mentioned in the last issue, the work on the modernization and expansion of the laboratories is going on at full pace and you should be able to see the differences for yourselves very soon.

Another area in which we are focusing very strongly is in the area of foreign language training for our students. With the globalization of the IT industry and with the slowdown of the US economy, it has become imperative to learn some foreign languages. As a part of this effort, we welcome Mr. Santanu Mukerji to our campus who has already started off by taking Japanese classes for the 5<sup>th</sup> semester students. I hope you will find the journey into the world of Japan exciting and wonderfilled. Very soon, you will be hearing about other foreign language programs also.

I would also like to take this opportunity to mention the great work being done by the staff of our Food Court. Apart from turning out the large number of meals every day, the Food Court has slowly become a focal point of student life at NIST campus. I have seen the Food Court doubling up as a study centre during the free hours. The additional services of providing snacks at evening time and cool drinks at all times must be another reason for the increasing popularity of the Food Court as a place to hang out in the campus. I congratulate the staff members of the Food Court in doing a great job and I hope that they will continue to maintain the high standards of cleanliness and good service to the NISTian family members.

My best wishes to all the final year students for their upcoming 7<sup>th</sup> semester exams. I will sign off wishing you all a joyous festival of Holi.

**March 15, 2003**

**Sangram Mudali**

### Message from the Editor

In the April and May, 2002 issue, I had given a list of the members of NACCS (NIST Alumni Career Counseling Services). NACCS is a platform which will bring our Alumni closer to us. From this issue onwards I will be presenting the views of our Alumni members in the Alumni Page. I am sure that their opinions and experience which they have gained will surely help the juniors in their life's journey. I request all the students to keep in contact with our Alumni.

You have learnt C, C++, Java, Visual Basic, MatLab and many other languages. Now, a new language for all. Guess!! Well, it is Japanese!! There is a slogan that if one needs money, higher education, one ought to go to USA and USA only, but however, this slogan is losing its popularity due to the high competition and decreasing opportunities. Now the Indians are finding job opportunities in Europe and Asia also. Knowledge of some languages like Japanese, French, German must be an extra advantage in getting jobs in those countries. So, again NIST is showing the way!!! It is providing facility to learn Japanese language. The classes have already started in the 5<sup>th</sup> Semester. Mr Santanu Mukherji, an experienced and highly trained Faculty is now with us to teach Japanese Language. Other languages?? Well, they are in a Queue....

**March 15, 2003**

**Partha Sharathi Mallick**

Walking with a friend in the dark is better than walking alone in the light -- *Helen Keller*

**Letters to the Editor**

**From: Mr. Sarat Chandra Behera, F/O. Chinmayanada Behera Roll:CS200127124.**

Sir, Happy New Year – 2003 to all NISTians, happy returns of NIST in the years to come. Since my connection with NIST, I am extremely proud that NIST is going on creating scholars & talents in the state like ORISSA. NIST should be aimed at to acquire its goal promptly & actively in creating the great scholars & talents not only within Orissa but India and abroad. I must give my hearty thanks to all NISTians for their united efforts in making NISTe-News well and ever continued to full fill the hopes and desires of the readers. Thanking You Sir. Yours Sincerely, With Love, **Sarat Chandra Behera**

**From: "Ravish Ranjan" <ravish\_9@rediffmail.com>**

NISTe\_News is very informative towards our career. It provides a lot of interested and valuable information to us. I would like to thank Dr. P. S. Mallick sir and the people behind it. My special thanks to Mr. Susanta Mohapatra sir to provides us Linux Sites as well as Job Sites in each issue. That is very useful to us. Sir I am requesting you to keep a separate column for "Hindi Publication" in *NISTe\_news*. I think that will enhance the charm of the Newsletter. Thanks once again.

***Wanted***  
**Students Representative  
for NISTe-News**

- He/She should be capable of continuing the dedicated service for e-News voluntarily (Contact- Editor).

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

- Summer Training Report
- Foreign Language for All
- Person of the Month
- Many other news, as usual

***The next issue will be published on April 15, 2003. Send your message on or before April 10, 2003 to NISTe\_News@yahoo.com. Thanks.***

To teach is to learn twice.....*Joseph Joubert*

## Special News

### 1<sup>st</sup> Birthday Celebration of e-News

In the last issue of enews we came across the *1<sup>st</sup> birthday of NISTe-News*. NISTians celebrated it on February 20, 2003 at NIST open auditorium. Our Director Mr Sangram Mudali, Dy Director Dr Ravi P Reddy, Dean



Dr Ajit K Panda and Mr Santosh K Upadhyay encouraged the newsletter in various ways through

their speech and suggested for better issues in future. Dr Partha S Mallick, the Editor of NISTe-News briefly related the history of eNews and its success. Finally our Editor had cut the Birthday Cake and distributed it among all. The active participation of all students, Faculty and Staff made the function more enjoyable. Thanks to Mr Vinay Das and our student Swatank Rajguru, Aruna K Tripathy for their valuable contribution.

### Campus Recruitment by Jataayu S/W

The Jataayu Software, Bangalore visited NIST on March 12, 2003, Wednesday for recruitment. The final year students of 1999 batch appeared for the tests and the final results are awaited. Thanks to Jataayu Software, Bangalore for visiting us.

### Marks are available on the Internet!!!

The Mid-Semester marks of 1<sup>st</sup> semester(2002 Batch) students are now available on our Website. To see the details of the marks one has to go to the Website [www.nistinfo.com](http://www.nistinfo.com) and click on the Student Marks and then enter your nine digit Roll Number (e.g: 200210122) and then password. The NIST Student Service Center provides this unique service. Dear students, keep in your mind that your parents are now able to see your marks sitting in front of a computer and just by one click. ☺☺

### Seminar on VLSI Technology

NISTians are thankful to **Prof. J. Majhi (Retd.)** of IIT, Madras for his lecture on

*VLSI Technology* delivered on March 08, 2003 in the Room No. 206 of Lecture Hall building. The presence of our VLSI group members, other faculty and interested students made the talk more significant.

### NIST Welcomes U.....



• We welcome **Mr. Arun Kumar Patnaik** to our NIST family. He is an electrical engineer with management background having more than twenty

years of experience. He has worked with the Industrial Development Corporation of Orissa Ltd. in different capacities for more than thirteen years in the field of different Projects, Plants, and Management Workshops with varied responsibilities and has been appreciated for completing Project work within the stipulated time period. He also worked with Multinational firms at Muscat and other companies like Lovelock & Lewes, Radiant Electronics Ltd. and Puran Alloy & Steel (P) Ltd. in senior managerial capacities. He is a sportsman and excellent in the fields of Badminton & Table Tennis. He is well versed in Administration & Management capabilities. Sri Patnaik has joined as a senior faculty member in our Institute and he will also be looking after administrative & development works. We wish him all success and good luck.



• We welcome **Mr. Santanu Mukerji** who joined us on March 10, 2003 as a Faculty in Foreign Language. He is a well experienced and expert instructor in Japanese Language. He

completed BA(Hons) and MA from Viswa Bharati University, Santiniketan, West Bengal in Comparative Religion before the successful completion of series of courses in Japanese Language. First he completed two years Certificate

Course in Japanese language in the year of 1993 from Viswa Bharati University. Then he appeared for the Japanese Language Proficiency Test conducted by Japan Foundation in the year 1994 where he had shown his talent. In the year of 1995, he also completed a Diploma Course in Foreign Language where Japanese language was his specialisation. He was the University topper in that examination. Then he joined the Japanese language Course conducted by Indo-Japan Welfare Society which is directly controlled by the Japan Consulate and he cleared it in 1997. He is one of the National Cadets who completed N.C.C conducted by Ministry of Defense, Govt. of India in 1993. Many times he had shown his proficiency in drama on stage, recitation, art and craft , batik, tie and dye. He was the Freelance Lecturer in Hinduism and other Indian religions at Ramakrishna Mission Institute of Culture and Mohabodhi society, Kolkata. He was one of the regular Faculty in the department of Japanese language of *Amrapali* and *Third Eye*, the two renowned schools of Kolkata for Foreign Languages education. There, he was also involved in translating and interpreting to Indian students as well as foreign students.

### Student's Corner

#### We Congratulate all of you....

# **Vineeta Mishra** and **Kabita Mohapatra** of 7<sup>th</sup> Semester, 1999 batch were awarded the Second Prize(Rs. 3000/ and Trophy) for the presentation of their paper titled **NEURO SOLUTION'S AND MODELS SUPPORTED BY NEURAL BUILDERS**, in the Nation Wide Technical Symposium on "A Rendezvous with Technology on Instrumentation and communication". The Symposium was organised by the DAICE(Departmental Association of Instrumentation and Communication Engineers),College of Engg, GITAM, Vishakhapatnam.

# He is **Aruna Kumar Tripathy**, CSE. His paper titled *Nano Assembler* was accepted in the National Conference on Materials, Components and Applications (MCA'03), KIIT, Bhubaneswar for poster presentation. Another paper of Aruna titled *FPAA Silicon* selected for presentation in INTERFACE 2003, GITAM, Vishakhapatnam.

# They are **Bijoy Sekhar Sroff** and **Chandra Sekhar Das** of 5<sup>th</sup> Semester. Their paper titled **BIO-INFORMATICS - UNLEASHING THE POWER OF DNA COMPUTING** has been selected for presentation at AAROHAN – 2003, a National Symposium organised by REC, Durgapur on March 14-16, 2003.

# **Bijoy Sekhar Sroff** sent an another paper titled "DNA COMPUTING" with **Anit Kumar Sahu** to APOGEE – 2003 which was selected for presentation at APOGEE–2003. It was held on March 11–15, 03 at BITS, Pilani.



# She is **Preeta Mohanty** - the Chancellors Cup winner for English Debate competition this year. She has proved it once again!! She was awarded *Grade A* and *stood first* in the Technical Seminar Presentation of All India Student's Engineering Congress held at Durgapur on February 15 -16, 2003. The Congress was organised by the Indian Society for Technical Education (ISTE), Student's Chapter, Durgapur. The title of her paper is **TQM FOR SURVIVAL OF THE FITTEST**. Keep it up! Preeta.



# She is **Priyadarshini Panda** of 3<sup>rd</sup> semester who was awarded for the presentation of the paper titled "ANN-BASED EXPERT SYSTEM FOR DIAGNOSTIC PROBLEM SOLVING " in the *All India Students Engineering Congress* held at Durgapur during February 15 -16, 2003. It was organised by the Indian Society for Technical Education (ISTE), Student's Chapter, Durgapur.

# They are **Prangya Paramita Mohapatra**



and  
**Padmaleena Kabita** of 3<sup>rd</sup> Semester who presented the paper titled

**TRANSISTOR TECHNOLOGY WITH CARBON NANOTUBES** in the *All India Students Engineering Congress* held at Durgapur during February 15 -16, 2003. The congress was organised by the Indian Society for Technical Education (ISTE), Student's Chapter, Durgapur. Both of them were awarded Grade A.

### Fun with Number Sambit Pattnaik, 3<sup>rd</sup> Sem

- Decide a single digit number
- multiply it by 2
- add 5
- multiply by 50
- if your birth day has already passed this year, add 2003 other wise add 2002
- subtract your *year of birth* from the result
- subtract 250
- you will get a 3 digit number where the 1st. digit is what you decided first and the next 2 digits tells your age.

### NISTians Achievement at IT Expo



Yes!! it was an excellent achievement by **Pallavi Mohanty**(7<sup>th</sup> Semester) at

IT Expo, Bhubaneswar, 2003 organised by the Information Technology Association of Orissa(ITAIO), IDCO and sponsored by LG. She won the first prize by beating rest of the engineering colleges of Orissa. There was a variety of IT based awards this year at IT Expo, Bhubaneswar. Cyber Quiz competition was one of the attractions of these varieties. Pallavi showed an excellent performance in this competition.

### Never do it! Sangram K Mohanty, 7<sup>th</sup> Sem

Never leave it for tomorrow,  
what you can today.  
never disturb others,  
what you can do yourself.  
never spend the money,  
what you need later.  
never buy it ,  
what you do not want.  
never expect from others,  
what you can not give.

### Friendship Sangram S Choudhuri, 3<sup>rd</sup> Sem

Oh! the friendship of a friend  
lasts till the end.  
you can share, and  
get a lot of care.  
you can confide and listen,  
which can never be forgotten.  
In your sad and bad,  
it makes you gay and glad.  
It means a perfect harmony,  
Free from all agony.  
It won't keep you apart,  
So go ahead and start.

## Career Corner

**Susanta K Mahapatra**

### Job Sites

- <http://www.raiyaanjobs.com> (resume or CV database promoted from Cochin)
- <http://members.rediff.com/rkpillai/reachp.htm>(placement & consultancy in Mumbai)
- <http://www.indiaworld.co.in/home/renutravels/index.html>(marketing & manpower)
- <http://www.indobase.com>(database of jobs and resumes)
- <http://www.ritejobs.com/>(executive search firm)
- <http://www.sampoorna.com/>(IT and telecom recruitment company)
- <http://www.angelfire.com/sc/employment>(manpower recruitment services in Thane)
- <http://www.silvocamarine.com/>( manpower & staff services to merchant navy & ships)
- <http://www.skillindia.com/>(source for experienced, educated, well trained IT people)
- <http://www.indiarecruit.com/>(recruitment for overseas appointments in software)
- <http://www.smartindia.com/>(jobs in financial services, software placements, banking)



<http://members.tripod.com/~shyamnataraj/index-2.html>(for S/W professionals)

**Knowledge Teasers**
**Kushal Bhut and Manmit Singh, 4th Semester**

1. "A thing of beauty is a joy forever" - from which poem of John Keats?
2. Which organisation established the newspaper *Hindustan Times*?
3. According to the Bible, which name was given to the final war between Good & Evil?
4. Which magazine's Logo is Pegasus, the winged horse?
5. Which company's Logo is based on the legend of a Cat having 9 lives?
6. Which movie was the election slogan of Zulfikar Ali Bhutto?
7. Which character of Indian Mythology was also known as *Vaidehi*?
8. Which company has its origin as Herman Hollerith's Tabulating Machine Company?
9. Which African country played the Semifinal of World Cup Cricket-2003?
10. In which year Rabindranath Tagore got the nobel Prize?

**Send your ANSWER by April 10, 2003. The name will be published in the next issue.**

*(We have received few responses for the last 10 questions. Among the responses nobody were able to provide all the 10 correct answers. We hope for more participation in future. The Answers with the Questions are being given below - NISTe\_News).*

1. What is the full form of NASDAQ?  
(National Association of Securities Dealers Automated Quotation System)
2. What is the parent company of Lee, Wrangler Jeans?(VF Corporation)
3. Name the founder of the company Bombay Dyeing?(Nusli Wadia)
4. Where is the software giant company Microsoft Incorporation based?(Redmond, Washington)
5. Who is the maker of AK-47 assault rifle?(Mikhail Kalashnikov)
6. The road by Sher Shah Suri which was revamped by L Dalhousie is(Grand Trunk Road)
7. Who is the writer of the book "The God of small things"?( Arundhati Roy)
8. Who got the highest run in World Cup Cricket?(Sachin Tendulkar)
9. Who is the Indian died in *Colombia* accident?(Kalpana Chowla)
10. If 'Thing Big' is to IBM, 'Think Small' is to which company?( Volkswagen Beetle)


**Corner**
**Some Popular Linux Sites**  
**Sushant K Mahapatra**


**<http://www.linuxmall.com>** (This site has a number of features like discussion forums and has its own news service with a regular Q&A session with Linus Torvalds)

**<http://www.thelinuxstore.com>**(provides technical support combined with a product line for linux)

**<http://www.elinux.com>** ( Elinux has a wide selection of linux hardware and software , as well as a decent FAQ database provided by Lunuxcare)

**<http://www.linuxcentral.com>** (If you love Linux and shopping, you'll love this site)

**<http://www.linuxfocus.org>** (This site offers new articles on technical topics each month )

**<http://www.linuxstart.com>**(Linuxstart features selection of links, divided into sensible topics areas)

**<http://www.thinkgeek.com>** (This site really has all things you need to know in Linux )

**<http://www.sunsite.auc.dk/lgdc/>**(interesting news, tutorials & interviews aimed at game developers)

**<http://www.kernel.org/>** (Official Linux Kernel Repository)

**<http://www.linuxhq.com/>** (Linux Kernel Related Site )

**<http://www.themes.org>** (This site has the most popular desktops and window managers for linux)

**<http://www.apacheweek.com>** / (most recent developments in the Apache space )

"A good teacher, like a good entertainer, first must hold his audience's attention. Then he can teach the lesson". .....*John Henrik Clarke*

## Research and Development

### Conference Paper

1. **Aruna Kumar Tripathy**, "Nano Assembler", accepted for presentation in the *National Conf. on Materials, Components & Applications(MCA'03)*, KIIT, Bhubaneswar, Feb., 03.

### NIST Robot Project

NIST's ongoing R & D activities now extended to a major project aimed at developing a *3-Degrees of Freedom Robot*. Three groups will work for the project. The 1<sup>st</sup> group will work in the area of Graphical simulation of the 3-DOF in software and development of a scripting language for the control of the Robot. The 2<sup>nd</sup> group will work on the Interfacing PC based control etc. and the 1<sup>st</sup> and 2<sup>nd</sup> group will work on hardware fabrication, design of gripper and other actuators, design of sensors and measuring devices. All the best, NISTians are with you.

### Dr A. Patnaik attended a course at IIT, Bombay

Dr Amalendu Patnaik attended a course on *Antennas* at IIT, Bombay on February 18 – 21, 2003. The course was conducted by the Department of Electrical Engineering and was a part of Continuing Education Program(CEP) of IIT, Bombay. The Course Instructors demonstrated different *Antenna experiments* developed by SIGNET, Mumbai in addition to the background theory of different antennas. Prof. Girish Kumar of Electrical Engineering Department was the Course-Coordinator.

### From Mailbox:

From: "Dr. Nikunja Swain"<Swain@sets.scsu>

Dr. Nikunja K. Swain, Ph.D., PE

Professor, Electrical Engineering Technology Acting Assistant Dean and Director of Off-Campus Programs South Carolina State University Orangeburg, SC 29117, USA

To Dr. Amalendu Patnaik, NIST

**Dear Sir**, I am interested to know more about your presentation in CIT-2002 entitled "Sensors and Virtual Instruments". Could you please email me a copy of your presentation? Also, would you like us to collaborate on Virtual Instrumentation research and publication? FYI, I use *LabView* software in two of my courses and in my research and publications. Thanks for your help. Sincerely; **Nikunja Swain**

**Note:** Interested persons may contact to Dr A. Patnaik or Directly to Dr Swain regarding this.

### NISTians Victory against CVRC, BBSR

Our NIST Cricket team did it in a outstanding fashion!!! It was such a resounding victory against CV Raman College of Engineering that it was one-sided affair with all the awards bagged by the NISTians. The proud members of NIST team are: Sudeep Mishra, Raj Shekhar Mahato (WK), Debashis Chatterjee, Soumyajit Rath (C), Laxman Majhi (VC), Subrat Panigrahi, Amiya Ranjan Budhia, Prabhash Padhy, K. Ramnarayan, Sanjib Kumar, Sayyed, Vijay, Mr. I.Bhattacharyya(Manager) and Mr. Vinay Kumar(Coach).



It was played at Berhampur stadium. Our Dy. Director Dr. Ravi P Reddy inaugurated the match. CVRC won the toss and elected to bat. They got a shock at the beginning when Amiya took two wickets in his two consecutive overs and the CVRC could not get back into the game confidently. They were an



out in 28 overs scoring only 122 runs in that 30 over match. There were many entertainment like excellent spin bowling by Sudeep, good opening spell by Sayyed and Amiya, very economic bowling spell of Sanjib, two well judged catches by Laxman, dedicated fielding by Pravash and last but not the least an acrobatic catch by Wicket Keeper Raj. In the batting session two openers had started slowly, but after falling of first two wickets the run rate was increased by the aggressive batting of Debashis and Soumyajit . Soumyajit played a very sensible captain's innings (50 n.o.) to bring NIST in the victory lap. Subrat Panigrahi and Laxman Majhi had also batted well. NIST won by 6 wickets. Final Score: CVRC – 122 all out (28 overs), NIST–123/4(19.2 overs), Man of the Match : Soumyajit Rath, Best bowler: Amiya. All the prizes distributed by our Honourable Director Mr Sangram Mudali.

### Alumni Page

**Here is an Interview of Srichandan, our 1996 batch student, now studying at University of Texas, Arlington, Texas, USA.**

Date: 2 Mar 2003 23:13:15 -0000

From: "chandan" <srichandangv@rediffmail.com>

To: "Partha S Mallick" <niste\_news@yahoo.com>

Subject: From NISTE\_NEWS

**Hi Sir**, I am fine, thanks. Hope you are fine in NIST. Seems interesting replying questions...Chandan

**e-News: Please...few lines about yourself..**

**Chandan:** I am Srichandan V Gudla, 1996 Batch, ELE, Roll: 158

**e-News: From your NIST memories...**

**Chandan:** I was an average guy, never really got good marks in the exams or practicals, and how much hardwork I put, I always got the same average marks, I suppose I am not good at the art of writing exams but I enjoyed being in NIST and still believe that with hard work one would surely get success one day or other.

Being in NIST, I got excited about "programming" stuff and with this drive I got a chance once to a programming contest at REC, Rourkela. Though I didn't win anything significant for NIST, I had fun there. I tried my best to change my major to CSE, but being an average student with limited seats in NIST, I compromised myself towards EE, though I was not successful in understanding the concepts practically.

Being a student in NIST, we had lot of problems with bus schedules, hostel food, water problems inside campus, exam schedules, etc etc... but I understand that all those problems are must to come as the first batch of NIST and I am proud to be a NISTian.

Also I had some personal problems too in NIST which made me feel very sad, though I, NIST and University were partly responsible for them. But I feel that, experiencing problems in life will make you better person later on.

**e-News: About your present job...**

**Chandan:** Still a student, starting from fall'2001, doing my MS in Computer Science, the field I always liked and understood a bit. I changed my major from EE to CSE here by taking 3 extra courses called "prerequisites" NIST helped me here, since most of the other students had 5 to 7 extra courses which saved \$1000 per each course.

I got a Graduate Teaching Assistant job here after 1 year i.e from fall'2002 and I am presently continuing this job. Most fortunate thing that happened here to me is that in the same month of the fall'2002 semester, I got offers for lab-assistant, Graduate Research

Assistant and Graduate Teaching Assistant jobs. So I did lab-assistant for 1 month, then kept my GRA position pending and took GTA position.

After coming here, almost most of my projects and assignments were done in Java, I almost forgot C since here they don't care about language in which one has to implement. As java is easy to implement and as I learned it before coming here, its becoming more and more easy as I implement one program after another.

I am doing a thesis under a professor in Artificial Intelligence, mostly it needs reading different related research papers, doing discussions about the topic with the professor and getting up with some new idea, and try implementing it. If possible publish some papers in the process. My first paper has been accepted in one of the AI research societies here called "FLAIRS" and is in the process of publishing shortly.

The new tools that I learnt here is – Java – learnt mainly network connectivity, database connectivity etc. NS2 simulator – used in simulation of different networks with a control on traffic and Quality of service Rational Rose – used for designing UML diagrams for databases, sequence diagrams for planning of the project.

**e-News: Any suggestion for your juniors...**

**Chandan:** The best thing that one can do is, First make your basic concepts perfect and understand them practically as much as possible. For example, for CSE students, learn the basic languages like C or Java – basically learn and implement simple network oriented and database oriented programs. For EE students, learn the basic concepts of transistor, resistance, capacitor, op-amp, different type of FET's, VLSI designs, power (active and reactive) etc – not just theoretically but know them practically and know atleast one simulating tool like ORCAD, MAT lab etc.

To do MS in USA, one has to give TOEFL and GRE exams, and to get decent scores in GRE and admission into decent schools in USA, it needs atleast 6 months of good preparation. The GRE exam is mainly about English and Mathematics.

**e-News: How did you reach here --- from your experience please...**

**Chandan:** For me, After I graduated from NIST, went to Hyderabad, took a tutorial for 3 months for GRE and TOEFL, gave the exams, applied for different universities in USA for computer science. In the mean time, learnt the Java language. Then got visa and I am now here in University of Texas at Arlington, Texas, USA. All this took me an year after I graduated, you can save this, if you can start before hand from 3rd year of your BE.

**From Mailbox:**

**From:** sagar sahu <sagar\_188\_sahu@yahoo.com>

**To:** smudali@hotmail.com

**Subject:** Pleasure to announce

**Date:** Sat, 8 Feb 2003 04:52:52 -0800 (PST)

**Respected sir,** Hope to find you at pink of your health and high on spirits. It gives me immense pleasure to announce that I have got through the first stage of the IIMs, i.e, for Ahmedabad, Bangalore, Calcutta, Indore and Kozikode. I could not make it for the IIM Lucknow. Apart from the IIMs I have also cleared the first stage of the institutes of XLRI, Jamshedpur and XIM, Bhubaneshwar. The above-mentioned list is the complete list of the colleges of management that I have so far received. Hope to send you more such news! Sir, personally I am sorry not to have made contact earlier. The pressures of the present GD/PI sessions had kept me away for a while. I am presently at Kolkata preparing for the same and also to gauge the competition here. I will need all the good wishes and your grace to go ahead in life. Again, taking this opportunity to thank you. Yours obediently, **Sagar Sahu**

**From: "Siddhartha K Panda"< siddhartha\_panda@indiatimes.com>**  
**To: geetika\_nist@hotmail.com**  
**Date: Mon, 27 Jan 2003 15:09:48 +0530**

**Dear Geetika mam,**

How are you? I don't know whether you have remembered me or not, but I do remember you, your database classes, presentations everything. Actually I didn't have your mail id.. Yesterday I got it from Suprabhat. What's going on in NIST. I have joined Wipro in last September. Presently I am in Embedded System vertical and in storage domain. Basically working in SAN, ISCSI, NAS in Linux platform. All those operating system and network related stuff. What about NIST. I have heard that last year NIST has organised some international conference. How is Reddy sir, Panda sir & Padhy sir. Regards.

**Siddhartha Kumar Panda, Systems Engineer, Embedded Systems & Internet Access, Wipro Tech., 53/I, Hosur Road, Madivala, Bangalore-68, Tel:+91-80-5502001-extn 6008**

**Date: 24 Feb 2003 00:35:28 -0000**  
**From: Hrusikesh Panda <hkpanda@rediffmail.com>**  
**To: <akpanda\_nist@rediffmail.com**  
**Date: Sun, 23 Feb 2003**

**Dear Sir,**

Please accept my heartfelt regards. It is a great pleasure to inform you that by your blessings and by god's grace I was able to clear through written and tech round of TCS and reach HR & management round. I am awaiting for the final results. All this was made possible by your (and college's) active efforts for which I shall be ever grateful to you. I wish I will continue to be embraced by your blessings in future too. Thanks again for all that effort you have put not only for me but also for our whole batch.

yours sincerely, **Hrusikesh.**

**Date: 8 Feb 2003 16:21:58 -0000**  
**From:"deepak kumar khadanga" <hellodeepak79@rediffmail.com>**  
**To: abhro456@yahoo.com**  
**Subject:Deepak Khadanga**

**Hello Sir,**

How are you? Hope this mail will find you in good health & in the best state of mind. Sir, you have always been a great help for me & always guided me by showing the right direction. I am very fortunate that I got a chance to do something under you. In the future also I seek your guidance sir. I came to Chennai on February 25, 2003. I have made up my mind to take up a course in Embedded Systems or VLSI. Here some good institutes are providing courses on both, with job guarantee. In Bangalore also some good institutes are doing the same thing. What I would like to ask you sir, if I take these courses, especially in Embedded Systems, will it help me in finding a job? Can a career can be built in this field. I have only a moderate idea on this topic. I don't know much about this. So, you please guide me sir, whether I should take up this course and pursue my career or I should join for MBA coaching and go for management. As you are well aware about this and also previously you had experience on these kinds of systems, you can guide me very well. Rest is ok here. How are the other faculty members. With regards,

Yours **Deepak.**

## Career opportunities in Fiber-Optics

Partha S Mallick

What is the current state of Industry? Where is it going? What pitfalls lie ahead? These are some of the critical questions I'll attempt to explore, and we can begin with our own everyday experiences. For instance, each time you pick up your phone, turn on your TV, transmit documents over Fax, give a cashier your credit card, use a bank ATM, or surf the www – in other words, every time you communicate over a significant distance through electronic equipment- you are using fiber-optic communications technology. Future trends will see this technology continue to penetrate all levels of telecommunication networks. The power of fiber-optics not only meets the growing demand for information carrying capacity but also opens whole new vistas of telecommunication possibilities, promising features that we did not even dream about yesterday.

The various advantages of the fiber cables over the co-axial cables have led to an extensive use of optical fibers in the communication field. With major R&D work being done in the field of fiber optics and its diversified applications in telecom industry and submarine communications, a number of companies of the Indian panorama are venturing into the manufacture of optical fiber cables and accessories. *Vikas Hybrids and Electronics Ltd(VHEL)* an established manufacturer of hi-tech electronic and telecommunication components, has enhanced its operations to include telecom cables. It has setup an optical fiber cable plant with an installed capacity of 100,000 fiber kilometers at Baddi in Himachal Pradesh in technical collaboration with Nokia cables of Finland, a renowned worldwide company for their advanced product design and process knowhow. VHEL is one the suppliers of fiber cables to the Department of Telecommunications(DoT). *Darbari Industries* in Allahabad is manufacturing three different models of fiber distribution frames(FDF) and termination box. Their models FDF-01 and FDF-02 can store excess fiber and connect it to fiber optics and adopters. *Falcom Enterprises* in collaboration with Nortech Fibronic Inc., Canada and Clauss Curlery Co., USA is manufacturing a wide range of fiber-optic instruments, components and tools for connectorisation and splicing. *Benchmark Electronics* is now manufacturing fiber-optic video link(VL-101) which provides a video bandwidth of 8MHz for better audio and video quality. The *Indian Railways*, a bulk user of telecommunication, has gone a step forward by installing the optical fiber communication system in Metros with the purpose of interconnecting various digital exchanges. The project was executed by *Ircon International Ltd* jointly with *Tata Telecom*.

If we see the other countries, American industry manufactures about half of the world's Optical Fiber, with Europe and Japan producing the most of the rest. American companies have invested heavily in both money and expertise to support the worldwide projects. Extensive research at American Universities and in corporate laboratories has opened new horizons in the development and installation of fiber optics. The ongoing submarine fiber-optic projects like GCL(Global Crossing Ltd.), PAC(Pan American Crossing) are in need of manpower. UK has largely been at forefront of fiber-optic research, some of which has been developed by several sectors of industry, to build profitable business and create new employment opportunities. Several UK companies produce Nd:YAG lasers for marker systems, including Electrox and Lumonics of Hull. The Lumonics ranks as the largest marking manufacturers in the world. It trades internationally and its markets include Japan, Norway, Iceland, South Africa and North Korea with a business growing yearly. The NJ technologies and EDM Technologies has grown recently to be the largest Laser manufacturer in Europe. This upward trend in the Fiber-optic industries is increasing the job opportunities in its area in India and Abroad.

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### NIST Websites

Ravi P. Reddy

NIST has had a long presence on the Internet but only of late has the presence become significant enough to merit an article in e-news. Let me list the sites and what we have been doing on them.

**www.nist.edu** – This has been our flagship website since 1997. It is hosted on a UNIX server in the USA and contains the information about all aspects of NIST. The only problem is that we cannot maintain dynamic scripts at this site due to certain restrictions by the host.

**www.nistinfo.com** – This is the information site that started off with the activities of CIT-2001 in the winter of 2001. The major feature of this site is that it is hosted on a WIN-NT server in the US. The students marks are being hosted at this site using an MS-Access database and a PHP/javascript interface.

**www.ntcsindia.com** – This is the site for information on the NIST Technology Consulting Services. It is a Linux based site hosted in US & contains details of our consulting activities.

**www.nistgate.com** – This is the latest and most popular site of ours where we have provided material and tests related to the GATE exam (entrance for M.Tech. programs). The main feature of this site is the online practice exams for GATE 2003 which students could avail after paying Rs.250/- per test. This year, even though we were late in offering this service, many students from far away places (in Karnataka, Maharashtra, UP, even IIT, Kanpur) took these tests to prepare for GATE. Next year, we plan to expand these services by offering more tests in more subjects (like Mathematics, Chemistry, etc.). This has been the first attempt of NIST at web-based commercial activities and with the continued support of the faculty of NIST, I am sure that it will become a huge success. You can check for yourselves by doing a Google search on “GATE Preparation Courses”.

### Future Technology

**Cryonics: Promising immortality in future...** Aruna K. Tripathy, 3rd Year, CSE

Who does not want to live forever? An Internet entrepreneur, a psychiatrist, an artificial intelligence expert, a nanotechnology expert, a science-fiction writer, a nurse and the wife of a professional wrestler, just to name a few, all very much believe in that possibility. Cryonics proposes to use an experimental treatment on human patients with no expectation that clinical trials will be completed anytime in the near future.

Cryonics is basically a backup plan if technology doesn't obliterate mortality first. About 1,000 people pay Alcor \$400 a year and have named Alcor (The Alcor Life Extension Foundation, the world's largest provider of cryonics services) as their life insurance beneficiary to cover the cost of freezing just the head for \$50,000.

Cryonics, simply stated, is the rapid cooling of a person's body, usually in liquid nitrogen, in order to preserve the tissue, cellular and molecular structure in the hopes that future advancements in science and technology (such as nanotechnology) will be developed to allow Alcor the scientific means to repair the ravages of diseases like cancer, Alzheimer's, Parkinson's, or the effects of aging, thereby potentially restoring the individual back to good health. This optimism for the future of medicine and technology is what lies at the core of cryonics. With the many advances in modern science, such as: DNA mapping, stem cell research, therapeutic cloning, human genome studies, and the emerging discipline of nanotechnology, the possibility of living a longer, more productive life is becoming more realistic with each passing day. Cryonicists know they face uncertain odds, but put faith in science. Cryonics: the word itself conjures futuristic images in many peoples' minds, and has undoubtedly, been the subject of more than its share of movies and student science projects yet Here's is the hope that cryonics could one day lead to immortality.



Reference: [www.alcor.org](http://www.alcor.org), [www.mercl.com/cryo](http://www.mercl.com/cryo)

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## Question of the Month

*The Caste System is a blot on our country and our culture, Do you agree?*



Send your answers with a short reason to the Editor at [niste\\_news@yahoo.com](mailto:niste_news@yahoo.com). Result will be published in the next issue.

## Last Month's Poll

The Question of the last month was "Do you think that the Extra Curricular Activities hamper the Regular Curriculum?". We have received 08 mails. Out of them, 3 replied "YES", and the rest went for "NO". Here are some of them...

**From: "Ravish Ranjan" <[ravish\\_9@rediffmail.com](mailto:ravish_9@rediffmail.com)>**

No, In my view, Extra Curricular Activities do not hamper the regular Curriculum, because these two are totally independent of each other. Even it provides a good direction to our life. It creates a lot of zeal in us to do something well.

**From: "suren dazzle" <[dream\\_lipsa@coolbuddy.com](mailto:dream_lipsa@coolbuddy.com)>**

Yes, It does affect, it will be facing off to say it doesn't. But the long you do not make extra curricular activities as your regular curriculum, and confuse yourself with the two, it's fine. We go for our dreams in the latter, and the former reveals hidden dreams and hidden talents.

## Person of the Month



Yes!! He is our RKD sir, Mr. Rajesh K Dash. This issue of NISTe\_News is going to tell you about Mr. Rajesh K Dash of our Electronics and Communication Engineering department who has been giving the dedicated service since September 1, 1997. Mr Rajesh is the son of Mr Trinath Dash and

**He is  
our  
RKD Sir**

Mrs. Sobhabati Dash of Sunabeda, Orissa. He has shown his talent in many academic activities of NIST. He is one of the important members of the Team who are giving their dedicated effort to establish the Electronics and Communication Labs. He is also a member of NIST VLSI group. He is well accepted by the students for his methodical approach in doing experiments. He has shown his expertise in the regular BE classes, in the classes for VLSI Diploma course at NIST Center of Excellence, Bhubaneswar and the Summer Training courses. He is the Person of NIST who knows the history and ins and out Technology of all the Instruments of Electronics and Communication department. He is also well versed in EDA Softwares, PSPICE, XILINX, PCAD, ORCAD and ForTran. So, those who are doing experimental work for BE Projects - RKD sir is with you, now and always!!

## General News

### NIST's S/W Show at BBSR

It was an excellent Software exhibition at Fortune Towers, Bhubaneswar from February 14 to 18, 2003. NIST's high-tech stall was one of its attractions. The Softwares developed by NTCS(NIST Technology and Consultancy Services) were well accepted by the visitors. Thanks to all NISTians who put their dedicated service for its success.



### Manual for Learning MatLab 6.1

Dr Partha S Mallick and Mr George Biswal have recently compiled a manual for Quick learning of MATLAB 6.1. The previous one was for MATLAB version 5.3 written by Dr Partha S Mallick. This version will teach you some more important Toolboxes alongwith Symbolic Math Toolbox, Control System Toolbox and Signal Processing Toolbox. The Step-by-Step procedure given in this manual will ease your learning. All the students of 3<sup>rd</sup> Semester will get this manual free of cost. The rest may contact to Dr Partha S Mallick.

